

**RESEARCH
PUBLICATIONS
PUBLISHED
2005-06**

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FACULTY OF AGRICULTURE

Dept. of Agri. Entomology

2005

- Ashfaq, M, Muhammad Ishfaq, Waseem Akram, and Jong-Jin Lee. 2005. Collection efficiencies of spray volumes by desert locust, *Schistocerca gregaria* (Orthoptera: Acrididae). Journal of Applied Entomology. Blackwell Synergy.
- Khaliq, A., M. Ashfaq, Waseem Akram, J. K. Choi and J. J. Lee. 2005. Effect of plant factors, sugar contents, and control methods on the top borer (*Scirpophaga nivella* F.) infestation in selected varieties of sugarcane. Entomological Research, 35(3): 153-160. Entomological Society of Korea.
- Khan, M.A., M. Ashfaq, Waseem Akram and Jong-Jin Lee. 2005. Management of fruit flies (Diptera: Tephritidae) of the most perishable fruits. Entomological Research, 35(2): 79-84. Entomological Society of Korea.

2006

- Bashir, M. H. And M. Afzal, 2006. A new species of the genus *Cunaxa* (Acarina: Cunaxidae) from Pakistan. Systematic and Applied Acarology, 11(1), 63-68.

Local

- Ahmed, S., A. Naseer and S. Fiaz, 2005. Comparative efficacy of botanicals and insecticides on termites in sugarcane at Faisalabad. Pak. Entomol. Vol. 27(1):23-26.
- Ahmed, S., R.R. Khan and T. Mahmood, 2005. Effect of cultural practices on subterranean termites in wheat at Faisalabad, Pakistan. Pak. Entomol. Vol. 27(1):27-32.
- Ahmed, S., S. Fiaz, M.A. Riaz and A. Hussain, 2005. Comparative efficacy of *Datura alba nees*, *Calotropis procera* and imidacloprid on termites in sugarcane at Faisalabad. Pak. Entomol. Vol. 27(2): - .
- Al-Tememi, N. K. and M. Ashfaq, 2005. Effect of Low Temperature Storage on the Fecundity and Parasitizing Efficacy of *Bracon hebetor* (Say). J. Agric. Res., 43(2): 155-160.
- Anwar, M., M. Ashfaq, M. Hasan and F.M. Anjum, 2005. Efficacy of *Azadirachta indica* L. oil on bagging material against some insect pests of wheat stored in warehouses at Faisalabad. Pak. Entomol. Vol. 27(1):89-94.
- Ashfaq, M., J. Iqbal and A. Ali, 2005. Integration of chemical control and host plant resistance against aphids on wheat. Pak. Entomol. Vol. 27(2):
- Ashfaq, M., N. K. Al-Tememi, and S. Ahmed, 2005. Effect of Artificial Diets on Some Parameters of Greater Wax Moth, *Galleria mellonella* L. under Optimum Conditions. J. Agric. Res., 43(3): 223-228.
- Ashfaq, M., R.A. Khan, M.A. Khan, F. Rasheed and S. Hafeez, 2005. Complete control of Mango Mealy Bug using funnel type slippery trap. Pak. Entomol. Vol. 27(1):45-48.
- Ashfaq, M., R.A. Khan, M.A. Khan, F. Rasheed and S. Hafeez, 2005. Insect orientation to various color lights in the Agricultural biomes of Faisalabad. Pak. Entomol. Vol. 27(1):49-52.
- Babar, M. H., M. Afzal, M. H. Bashir and M. A. Ali, 2005. Chemical control of mushroom mite (Tarsonimidae) at different time intervals and concentrations of Dicofol, Abamectin and Hexythiazox. Pak. J. Agri. Sci. 42 (3-4): 42-44
- Babar, M. H., M. Afzal, M. H. Bashir and M. A. Ali, 2005. Relative efficacy of different acaricides (Dicofol, Abamectin and Hexythiazox) against mushroom mites (Pygmephoroidae). Pak. J. Agri. Sci. 42 (3-4): 45-47
- Bashir, M. H. and M. Afzal, 2005. New cunaxid mite of the genus *Armascirus* from Punjab- Pakistan. Pak. J. Agri. Sci. 42 (3-4) : 117-121.
- Bashir, M. H., M. Afzal and S. Akbar, 2005. A new cunaxid mite of genus *Pulaeus* (Cunaxidae) from Punjab-Pakistan. Biologia, 51 (2) : 163-168.
- Bashir, M.H., M. Afzal and S. Ali, 2005. Description of a new Cunaxid mite *Cunaxa reticulatus* (Acari) from Pakistan. Pak. Entomol. Vol. 27(2):

- Hassan, M., F. Ahmad, M. Sagheer, M.F. Iqbal and M. Tariq, 2005. Residual persistence of Chlorpyrifos, Imidacloprid and Acephate in Brinjal fruit. Pak. Entomol. Vol. 27(1):53-56.
- Ishfaq M., M. Ashfaq and A.H. Sayyed, 2005. Effect of Power on Droplet Size by Hand Held Spinning Disc Sprayer. Pak. J. Biol. Sci., 8(4): 567-570.
- Kamran, M., B.S. Khan and Z.Nazir. 2005. A new species of genus *Hemicheyletia* (Cheyletidae:Acarina) from Punjab, Pakistan. Pak.J.Agric.Sciences.
- Khan R.R, M. Ashfaq and S.A. Rana, 2005. Some Studies on the toxicity of conventional and new chemistry insecticides against *Bracon hebetor* (Say) (Hymenoptera : Braconidae) under laboratory conditions. Pak. Entomol. 27 (1). P 19-21.
- Khan, A.S., M. Ashfaq, 2005. New species of Genus *Amblyseius* from Pakistan. Pak. Entomol. Vol. 27(2).
- Khan, A.S., M. Ashfaq, 2005. Two new species of Genus *Amblyseius* from Pakistan. Pak. Entomol. Vol. 27(2).
- Khan, B. S., M. Afzal and M. Kamran, 2005. A new species of the genus *Agistemus* (Stigmaeidae : Acarina) from Punjab- Pakistan. Pak. J. Agri. Sci. 42 (3-4) : 55-57.
- Khan, B.S. and M. Afzal, 2005. Comparison of Life Cycle of Stigmaeid Mite, *Agistemus Buntex* on three host Tetranychid Species. Pak. Entomol. Vol. 27(1):9-11.
- Khan, R.R., M. Ashfaq and S.A. Rana, 2005. Some studies on the toxicity of conventional and new chemistry insecticides against *Bracon hebetor* (Say) (Hymenoptera: Braconidae) under laboratory Conditions. Pak. Entomol. Vol. 27(1):19-22.
- Raza, A. B. M., M. Afzal and M. H. Bashir, 2005. Biology of *Euseius septicus* (Acari: Phytoseiidae) preying on two spotted spider mites *Tetranychus urticae* (Acari: Tetranychidae) at different temperatures. Pak. Entomol. 27(1): 85-88.
- Razaq, M., A. Suhail, M. Aslam, M.J. Arif, M.A. Saleem and M.H.A. Khan, 2005. Evaluation of new chemistry and conventional insecticides against *Helicoverpa armigera* (Hubner) on cotton at Multan (Pakistan). Pak. Entomol. Vol. 27(1):71-74.
- Razaq, M., A. Suhail, M. Aslam, M.J. Arif, M.A. Saleem and M.H.A. Khan, 2005. Evaluation of neonicotinoids and conventional insecticides against cotton jassid, *Amrasca devastans* (Dist.) and cotton whitefly, *Bemisia tabaci* (Genn.) on cotton. Pak. Entomol. Vol. 27(1):75-78.
- Sial, J.K., R.A. Khan, M. Ashfaq and F. Rasheed, 2005. Development And testing of light-based mechanical insect trap. Pak. Entomol. Vol. 27(2):
- Siddiqui, M.J.I., S.A. Rana, N. Rana and A. Sohail, 2005. Biodiversity of insects in high and low input wheat (*Triticum aestivum*) fields agroecosystems of Punjab. Pak. Entomol. Vol. 27(2):
- Sohail Ahmed, Asif Naseer And Shakil Fiaz, 2005 Comparative Efficacy Of Botanicals And Insecticides On Termites In Sugarcane at Faisalabad Pakistan Entomologist, 27 (1): 23-25.
- Sohail Ahmed, Rashad Rasool Khan and Tariq Mahmood 2005. Effect of cultural practices on subterranean termites in wheat at Faisalabad, Pakistan. 27 (1): 27–31.
- Sohail Ahmed, Richard M. Wilkins, David Mantle & Musamat N. Begum. 2005. Intracellular Proteases and Resistance in Plants. Intl. J. Agric. Biol., 7 (1): 30-34.
- Syed A.N., M. Ashfaq, K. Zia, and R.R. Khan, 2005. Small-scale production of common green lacewing *Chrysoperla carnea* Int., J. Biol. Biotech., 2(4): 959-961.
- Syed, A.N., M. Ashfaq and S. Khan, 2005. Comparison of development and predation of *Chrysoperla carnea* (Neuroptera: Chrysopidae) on different densities of two hosts (*Bemisia tabaci*, and *Amrasca devastans*). Pak. Entomol. Vol. 27(1):41-44.
- Tayyib, M., A. Sohail, Shazia, A. Murtaza and F.F. Jamil, 2005. Efficacy of some new-chemistry insecticides for controlling the sucking insect pests and mites on cotton . Pak. Entomol. Vol. 27(1):63-66.
- Wakil, W., M. Ashfaq and S. Ahmed, 2005. Larval population and pod infestation by *Helicoverpa armigera* (Hüb.) on chickpea (*Cicer arietinum* L.) in Rawalpindi, Pakistan. Pak. Entomol. Vol. 27(1):33-36.
- Wakil, W., M. Ashfaq, M. Hasan and A. Javed, 2005. Evaluation of different chickpea (*Cicer arietinum* L.) genotypes against *Helicoverpa armigera* (Hüb.) in Rawalpindi, Pakistan. Pak. Entomol. Vol. 27(1):37-40.

Dept. of Crop Physiology

2005

- Afzal, I., S.M.A. Basra, Nazir Ahmad and M. Farooq. 2005. Optimization of hormonal priming techniques for alleviation of salinity stress in wheat (*Triticum aestivum* L.). *Caderno de Pesquisa Serie Biologia*. 17: 95-108.

- Ahmed, R., E.A. Warriach, S.M.A. Basra, M.Farooq and B. Hussain. 2005. Variation in water use efficiency in five wheat (*Triticum aestivum* L.) genotypes grown under irrigated conditions. *Euro-Asian J. Appl. Res.* 1(2): 28-35.
- Basra, S.M.A., I. Afzal, R.A. Rashid and M. Farooq. 2005. Pre-sowing seed treatments to improve germination and seedling growth in wheat (*Triticum aestivum* L.). *Caderno de Pesquisa Serie Biologia*.17: 153-160.
- Basra, S.M.A., I. Afzal, R.A. Rashid, M. Farooq and A. Iqbal. 2005. Seed enhancements to improve germination and seedling growth in wheat (*Triticum aestivum* L.). *Euro-Asian J. Appl. Res.* (2): 5-12.
- Basra, S.M.A., M. Farooq and R. Tabassum. 2005. Physiological and biochemical aspects of seed vigor enhancement treatments in fine rice (*Oryza sativa* L.). *Seed Science and Technol.* 33(3), 623-628.
- Farooq, M., S.M.A. Basra, and N. Ahmed. Rice Seed Priming. 2005. *Int. Rice Res. Notes.* 30(2):45-48.
- Farooq, M., S.M.A. Basra, K. Hafeez and N. Ahmad. 2005. Thermal hardening: a new seed vigor enhancement tool in rice. *J. Integrative Plant Biol.* 47 (2): 187-193.
- Farooq, M., S.M.A. Basra, N. Ahmad and E. A. Warriach. 2005. Seed germination, seedling vigor and electrical conductivity of seed leachates in coarse and fine rice as affected by dry heat and chilling treatments. *Euro-Asian J. Appl. Sci.* 1(3): 18-35.
- Waraiach, E. A., R. Ahmad, M. Ashraf and SaifUllah. 2005. Irrigation and Nitrogen effect on grain yield, yield components and water use efficiency of wheat (*Triticum aestivum* L.). *Pakistan J. Sci.* (Accepted).

2006

- Basra, S.M.A., M. Farooq, A. Wahid and M. Bismillah Khan. 2006. Rice Seed Invigoration by Hormonal and Vitamin Priming. *Seed Sci. and Tech.* 34(3): 775-780.
- Basra, S.M.A., M. Farooq, R. Tabassum and N. Ahmed. 2006. Evaluation of seed vigor enhancement techniques on physiological and biochemical basis in coarse rice *Seed Sci. and Tech.* 34(3): 741-750.
- Farooq, M. and S.M.A. Basra and K.Hafeez. 2006. Seed invigoration by osmohardening in fine and coarse rice. *Seed Sci. Tech.* 34(1): 181-187.
- Farooq, M. and S.M.A. Basra, M.A. Cheema and I. Afzal. 2006. Integration of pre-sowing soaking, chilling and heating treatments for vigor enhancement in rice (*Oryza sativa* L.). *Seed Sci. and Tech.* 34(2): 499-506.
- Waraiach, E. A., R. Ahmad, M. Ashraf and Saif Ullah. 2006. Nitrogen Nutrition and water stress effects on growth, yield and water use efficiency of wheat (*Triticum aestivum* L.). *European J. Agron.* (Accepted).
- Farooq, M., S.M.A. Basra, M. Khalid R. Tabassum and T. Mehmood. 2006. Nutrient Homeostasis, Reserves Metabolism and Seedling Vigor as affected by Seed Priming in Coarse Rice. *Canadian J. Botany.* 84(8): 1196-1202.
- Farooq, M., S.M.A. Basra, R. Tabassum and I. Afzal. 2006. Enhancing the performance of direct seeded fine rice by seed priming. *Plant Production Science.* 9(4): 446-456.

Local

- Afzal, A., M. Ashraf, S.A. Asad and M.Farooq. 2005. Effect of phosphate solubilizing microorganisms on the phosphorus uptake, yield and yield traits of wheat (*Triticum aestivum* L.) in rainfed areas. *Int. J. Agric. Biol.*, 7(2): 207-209.
- Basra, S.M.A., M. Farooq and M. Hussain. 2005. Influence of Osmopriming on the germination and early seedling growth of coarse and fine rice. *Pak J. Seed Technol.*, 6(1): 33-42.
- Farooq, M., S. M.A. Basra, B. A. Saleem, M. Nafees and S. A. Chishti. 2005. Enhancement of tomato seed germination and seedling vigor by osmopriming. *Pakistan J. Agric. Sci.* 42(3-4): 36-41.
- Farooq, M., S.M.A. Basra, K. Hafeez and N. Ahmad. 2005. Use of commercial fertilizers as osmotica for rice priming. *J. Agri. Soc. Sci.* 1(2): 172-175.
- Saleem, B.A, K.Ziaf, M. Farooq and W.Ahmad. 2005. Fruit set and drop patterns as affected by type and time of fertilizer application in mandarin cultivars (*Citrus reticulata* Blanco.). *Int. J. Agric. Biol.*, 7(6): 962-965.

2006

- Afzal, I., S.M.A., Basra, M. Farooq, and A. Nawaz. 2006. Alleviation of salinity stress in spring wheat by hormonal priming with ABA, salicylic acid and ascorbic acid. *Int. J. Agric. Biol.*, 8(1): 23-28.

- Cheema, M.A., M. Farooq, R. Ahmad and H. Munir. 2006. Climatic trends in Faisalabad (Pakistan over the last 60 years (1945-2004). *J. Agric. Soc. Sci.* 2 (1); 42-45.
- Hussain, M., M. Farooq, S.M.A. Basra and N. Ahmad. 2006. Influence of seed priming techniques on the seedling establishment, yield and quality of hybrid sunflower. *Int. J. Agric. Biol.*, 8(1): 14-18.
- Farooq, M., S. M.A. Basra, H. Rehman and T. Mehmood. 2006. Germination and Early Seedling Growth as affected by Pre-Sowing Ethanol seed Treatments in Fine Rice. *Int. J. Agric. Biol.*, 8(1): 19-22.

Papers presented or published at international conferences

- Afzal, I., S. Rauf, S.M.A. Basra and G. Murtaza. 2005. Optimization of halopriming treatments for vigor enhancement in wheat under normal and saline conditions. 6th International Conference on "Eco-physiological aspects of plant responses to stress factors" which was held at Poland from 14-17th September, 2005.
- Afzal, I., S.M.A. Basra and M. Farooq. 2005. Seed enhancements to induce salt tolerance in wheat (*Triticum aestivum* L.). 8th International Workshop on seeds under the title "Seed Germination and Dormancy" which was held at Brisbane, Australia from the period 8-13th of May, 2005.
- Afzal, I., S.M.A. Basra and M. Farooq. 2005. Seed invigoration techniques for alleviation of salinity stress in wheat (*Triticum aestivum* L.) during germination. 8th International Workshop on seeds under the title "Seed Germination and Dormancy" which was held at Brisbane, Australia from the period 8-13th of May, 2005.
- Afzal, I., S.M.A. Basra, A. Hameed and M. Farooq. 2005. Pre-sowing seed treatments for inducing salt tolerance in wheat. 6th International Conference on "Eco-physiological aspects of plant responses to stress factors" which was held at Poland from 14-17th September, 2005.

Papers presented/published at national conferences

2006

- Basra, S.M.A., S. Anwar and I. Afzal. 2006. Alleviation of salinity effect by seed invigoration strategies in wheat. International symposium on application of plant sciences in emerging scenario. G.C. University, Faisalabad. March, 20-22, 2006.

Department of Plant Pathology

Foreign

- Abbas, M., M.Khan, S.M.Mughal and I.A. Khan, 2005. prospects of classical cross protection technique against citrus tristeza closterovirus in Pakistan. *Jour. Hort. Sci.* 2 : 74-83. (Prague Cych.)

National 2005

- Ali, S., M. A. Khan, A. Habib, S. Rashid and Y. Iftikhar, 2005. Management of yellow vein mosaic disease of okra through pesticides/biopesticides and suitable cultivars. *Int. J. Agri & Bio.* 7(1): 145-147.
- Ali, S., M. A. Khan, A. Habib, S. Rashid and Y. Iftikhar, 2005. Correlation of environmental conditions with okra yellow vein mosaic virus and Bemisia tabaci population density. *Int J. Agri. & Bio.* 7(1): 142-144.
- Ashfaq, M., Y.Iftikhar, S.M.Mughal and M.Aslam Khan. 2005. Occurrence, distribution and transmission of yellow vein clearing virus (yvcv) from Faisalabad. *Pak.Jour. Phytopath.* 17: 101-104.
- Hussain R, T.Mukhtar and R.Ahmad 2005. Screening of some sunflower cultivars against *Meloidogyne incognita* root knot nematode and its chemical control. *Pak.Jour. Nematode.* 23 (1): 173-180.
- Iqbal M.A, T.Mukhtar and R.Ahmad.2005 Potentiality of some plants to control citrus nematode, *Tylenchulus semipenetrans*. 17 (1): 133-140.
- Khan, H.U., T.Mukhtar and R.Ahmad 2005. Geographical distribution of root knot nematodes (*Meloidogyne sp.*) in the Punjab Province of Pakistan. *Pak.Jour. Nematode.* 23 (1): 133-140.
- Khan, H.U., T.Mukhtar, R.Ahmad and M.A. Iqbal 2005. Estimation of optimum dose and effectiveness of *Paecilomyces lilacinus* against *Meloidogyne incognita*. *Pak.Jour. Phytopath.* 17 (1): 36-42

- Maher, S.M., S.T. Sahi, M.U. Ghazanfar, M.I. Haq, Y. Iftikhar, M.S. Sarwar and T. Ahmad. 2005. Evaluation of different toxicants against *Xanthomonas campestris* pv. *Citri* (Hasse) Dows. Int. J. Agri. Biol., 7(1): 121-124.
- Mukhtar T., I.Pervaz, R.Ahmad and H.U.Khan. 2005., Management of *Meloidogyne javanica* by cropping sequence and effects on *Pesteuria penetrans*. Pak.Jour. Nematode. 23 (1): 173-180.
- Shad. N, S.M. Mughal and M. Bashir. 2005. Transmission of mungbean yellow mosaic begomovirus. Pak. Jour. Phytopath. 17 :141-143.

2006

- Habib, A., Sahi, S.T., Ghazanfer M.U. and Ali, S. 2006. Location of Seed-borne Mycoflora of Eggplant (*Solanum melongena* L.) in different Seed Components and its Impact on Seed Germability. Int. J. Agri. & Biology 9 (1). 14505
- Habib, A., Sahi, S.T., Ghazanfer M.U. and Ali. S. 2006. Evaluation of some fungicides against seed born mycoflora of eggplant and their comparative efficacy regarding seed germination. Int. J. Agri. & Biology 9 (1). 14605
- Iqbal M.A, T.Mukhtar, R.Ahmad and H.U.Khan. 2006. Ecological prevalence of Tylenchelus semipenetrans in the four districts of the Punjab Province, Pakistan. Pak.Jour. Nematol. 24 (1):19-26.
- Javed, N., S. R. Gowen, H. U. Khan, S. A. Anwar, and M. Ashfaq. 2006. Response of free eggs and infective juveniles of root-knot nematode *Meloidogyne javanica* through neem (*Azadirachta indica* A. Juss) amended soil. Pakistan Journal of Nematology 24:171-182.
- Khan, H.U. T.Mukhtar, R.Ahmad and M.A.Iqbal. 2006. Studies on the distribution and control of root knot nematodes *Meloidogyne spp.* in Faisalabad and Lahore divisions, Pakistan. Pak.Jour. Nematol. 24 (1):57-64.
- Mughal.S.M., 2006. Virus and virus like diseases of cotton and their management in Pakistan. Pakistan Agric. 1: 23-28.
- Shad, N., S.M. Mughal, K.Farooq and M.Bashir 2006. Evaluation of mungbean yellow mosaic begomovirus. Pak.Jr.Bot. 38: 449-457.

Department of Plant Breeding and Genetics

Foreign

- Azhar, M. T., A. A. Khan and I. A. Khan. 2005. Combining ability analysis of heat tolerance in *Gossypium hirsutum* L. Czech J. Genet. and Plant Breeding,41(1):23-28.
- Azhar, M. T., A. A. Khan and I. A. Khan. 2005. Combining ability analysis of heat tolerance in *Gossypium hirsutum* L. Czech J. Genet. Plant Breed., 41(1): 23-28.
- Ikram, M. and M. Saleem. 2005. Genetic of pod clusters in cowpea (*Vigna unguiculata*) Walp. J. Agri. Res. 43(2): 111-120.
- Khan, A. A. and T. McNeilly. 2005. Triple Test Cross analysis for salinity tolerance in maize. *Breeding Science*, 55 (3): 321-325.
- Rahman M and TA Malik. 2005. Genetics of resistance against cotton leaf curl disease in cotton (*Gossypium hirsutum* L.) Plant Pathology, UK. 54: 764-772.
- Rehman, H., S.A. Malik ad M. Saleem. 2005. Inheritance of seed physical traits in upland cotton under different temperature regions. Spanish J. Agri. Res. 3(2): 225-231.
- Tabassum, M.I. and M. Saleem, A. Ali and M.A. Malik. 205. Genetic mechanisms of leaf characteristics and grain yield in maize under normal and moisture stress conditions. Biotechnology 4(4): 243-254.

2006

- Rauf S., I.A. Khan and F.A. Khan. 2006. Cholchicine induced tetraploidy and changes in allele frequencies in Cholchicine treated populations of diploids assessed with RAPD markers in *G. arboreum* L. Turkish Journal of Biology. Turk J. Biol 30(2006): 93-100.

Local journals 2005

- Abbas, G., M.S. Sadiq, M. Saleem, S. Haider and M. Saleem. 2005. Selection criteria for segregating generation of mungbean *Vigna radiata* L. *J. Agri. Res.* 43(2): 95-102.
- Ahmad, J. and M. Aslam Chowdhry. 2005. Effects of different ploidy levels of wheat (hexaploids and tetraploids) on seed set, embryo formation and haploid production in wheat x maize crosses. *Pak. J. Biol. Sci.* 8(12): 1758-1761.
- Ali, Z., A. S. Khan, I. A. Khan and F. M. Azhar. 2005. Effect of NaCl on root growth and ionic relations of wheat. *J. Agri. Soc. Sci.* 1(2): 123-125.
- Ali, Z., A. S. Khan, I. A. Khan and F. M. Azhar. 2005. Heritability (h^2_b) estimates for NaCl tolerance in wheat (*T. aestivum* L.) *J. Agri. Soc. Sci.* 1(2): 126-128.
- Asghar, M. J. and I. A. Khan. 2005. Variability seedling vigour in two maize (*Zea mays*) populations. I: Means, Variance Components and Heritabilities. *PJBS.*8(6):839-843.
- Asghar, M. J. and I. A. Khan. 2005. Variability seedling vigour in two maize (*Zea mays*) populations. II: Correlations and Response to selection. *PJBS.*8(6):844- 848.
- Azhar, M. T. and A. A. Khan. 2005. Combining ability analysis of seed cotton yield and its components in *Gossypium hirsutum* L. *Pak. J. Sci. Indus. Res.*, 48(5):358-361.
- Chowdhry M. A., N. Parveen, I. Khaliq and M.Kashif. 2005. Estimation of heterosis for yield and yield components in bread wheat. *J. Agri. Soc. Sci.*1(4):304-308.
- Ahmad, J. and M. Aslam Chowdhry (2005). The efficiency of chromosome doubling in haploids derived from wheat x maize crossing. *Pak. J. Biol. Sci.* 1(4): 1707-1711.
- Chowdhry M. Aslam, M.S. Saeed, I. Khaliq and M. Ahsan. 2005. Combining ability analysis for some polygenic traits in a 5 x 5 diallel cross of bread wheat (*Triticum aestivum* L.). *Asian J. Pl. Sci.* 4(4): 405-408.
- Khan, A. A., M. Khaliq, M. S. N. Rehman and A. Irshad. 2005. Cytogenetics and evolution of *Triticum aestivum* L. em. Thell. (Review). *Int. J. Agri. Biol.*, 7 (3): 527-534.
- Rehman, A., M. Saleem and A. Naveed. 2005. Evaluation of mungbean gerplasm and selection of parents for genetic studies. *Pak. J. Agri. Sci.* 42(1-2): 61-65,
- Rehman, A., M. Saleem and A. Naveed. 2005. Genetic analysis of harvest index in mungbean. *Pak. J. Agri. Sci.* 42(1-2): 66-70.
- Saleem, M., M. Aslam Chowdhry and I. Khaliq. 2005. Inheritance pattern of plant height, grain yield and some leaf characteristics of spring wheat. *Inst. J. Agri. Biol.* 7(6): 1015-1018.
- Saleem., M.A. A. Zafa, M. Ahsan and M. Aslam. 2005. Interrelationship and variability studies for grain yield and its various components in chickpea (*Cicer arietinum* L.) *J. Agri. Social. Sci.* 1(3): 266-269.
- Shah, M.K.N., S.A. Mlaik and M. Saleem. 2005. Stability of cotton cultivars in early crop maturity across variable plant spacing and sowing times. *Pak. J. Bot.* 37(2): 345-353.
- Tabassum, M. I., M. Saleem, A. Ali and M. A. Malik. 2005. Genetic mechanisms of leaf characteristics and grain yield in maize under normal and moisture stress conditions. *Biotechnology*, 4(4): 243-254.
- Tabassum, M.I. and M. Saleem. 2005. Genetic trend of maize (*Zea mays* L.) under normal and water stress conditions. *Pak. J. Biology Sci.* 8(4): 571-580.
- Tahir, M.H N., H.A. Sadaqat and I.A. Khan. 2005. Genetic potential of high forage yielding Sorghum x Sudangrass hybrids for resistance to stem borer (*Chilo partellus*) and shoot fly (*Atherigona soccata*) *Pak Entomol. Vol.*27, No. 1:57-62.

2006

- Akhtar, N. and M. Aslam Chowdhry. 2006. Genetic analysis of yield and some other quantitative traits analysis of yield and some other quantitative traits in bread wheat. *Int. J. Agri. Biol.* 8(4): 523-527.
- Saeed, M.S., M. Aslam Chowdhry and M. Ahsan (2005). Genetic analysis for some metric traits in *Aestivum* species. *Asian J. Pl. Sci.* 4(4): 413-416.
- Akhtar, N. and M. Aslam Chowdhry. 2006. Estimation of genetic and phenotypic correlation coefficient among grain yield and its components in bread wheat. *Int. J. Agri. Biol.* 8(4): 516-522.
- Shafiq, M., A. Younis, M. A. Khan, A. A. Khan and K. Riaz. 2006. Correlation studies in *Rosa* species under Faisalabad conditions. *J. Agric. Soc. Sci.*, 2(1): 76-77

2005

- Ahmed, N., M. Ibrahim, M. A. Chowdhry, Ihsan Khaliq and K. Noda. 2005. Genetic transmission of drought related morpho-physiological characters in wheat (*Triticum aestivum* L.). In the Inter Drought II, The 2nd International Conference on Integrated Approaches to Sustain and Improve Plant Production. Under Drought Stress, Rome Italy. 24-28 September.
- Mahmood, Z. H Rashid, Ihsan Khaliq and T. Rafique. 2005. Effect of water stress on early seedling growth of wheat (*Triticum aestivum* L.). 3rd International Symposium on Biotechnology, 15-18 December, 2005, Institute of Biotechnology and Genetic Engineering, University of Sindh, Jamshoro, Pakistan.
- Malik, T.A., S Rahman, M. Rahman and Y. Zafar. 2005. Tagging genes for drought resistance by DNA markers in Wheat. In the International Conference on Biotechnology for Salinity & Drought Tolerance in Plants, 28-31 March, 2005, Islamabad, Pakistan.
- Rahman, S., T.A. Malik, M. Rahman and Y. Zafar. 2005. DNA markers for drought tolerance in wheat. In the Inter Drought II, The 2nd International Conference on Integrated Approaches to Sustain and Improve Plant Production. Under Drought Stress, Rome Italy. 24-28 September.

2006

- Khan I.A. 2006. Plant Breeding and Genetics: History, achievements and future prospects. Paper presented in National Workshop on Crop improvement: Conventional & Biotechnological Approaches (28-30, Aug), UAAR, Pakistan.
- Chowdhry, M. A., S. Ikram, M. Kashif and I. Khaliq. 2006. Genetic interpretation of yield and other related traits in bread wheat. International Symposium on Sustainable Crop Improvement and Integrated Management. September 14-16, Faculty of Agriculture, University of Agriculture, Faisalabad, Pakistan.
- Farooq, J. I. Habib and Ihsan Khaliq. 2006. Combining ability for yield and its components in *Triticum aestivum*. International Wheat Seminar, 20-21 February, Wheat Research Institute, Faisalabad, Pakistan.
- Ihsan Khaliq, M. A. Chowdhry and M. Kashif. 2006. Genetic determination for some yield and yield related traits in spring wheat. International Wheat Seminar, 20-21 February, Wheat Research Institute, Faisalabad, Pakistan.
- Khakwani, K, I.A. Khan, A. Iqbal, F.S.Awan, and A.A.Khan. 2006. Molecular and Genetic analysis of parents and F₁ hybrids in *Gossypium hirsutum* L. National Symposium on Biotechnology for Economic Prosperity. July 24-26, Nathiagali.
- Khaliq, I., M. S. Iqbal, M. A. Chowdhry and M. Kashif. 2006. Genetics of some quantitative plant attributes in spring wheat. International Symposium on Sustainable Crop Improvement and Integrated Management. September 14-16, Faculty of Agriculture, University of Agriculture, Faisalabad, Pakistan.
- Khaliq, I., N. Zahid, M. A. Chowdhry and M. Kashif. 2006. Combining ability studies in yield related attributes in spring wheat. International Symposium on Sustainable Crop Improvement and Integrated Management. September 14-16, Faculty of Agriculture, University of Agriculture, Faisalabad, Pakistan.
- Khan I.A. and A.A. Khan. 2006. Agricultural Biotechnology and the genetic improvement of crop Plants. International Conference; Biotechnology: Shaping future Agriculture. June 20-21, UAAR, Pakistan
- Khan, I.A. and A.A. Khan. 2006. Genetic diversity analysis in wheat accessions through molecular markers. Absts. Submitted in 1st synthetic symposium, Department of Primary Industries-Horsham Victoria-Australia. Sept. 4-6.
- Malik, T.A. and M.S. Rehman. 2006. Applications of DNA fingerprinting. In the International Symposium, Applications of Plant Sciences in Emerging Scenario, 20-22 March 2006. GC University, Faisalabad, Pakistan
- Malik, T.A., A. Iqbal, M.S. Rehman, M.A. Chowdhry and M. Kashif. 2006. DNA marker studies on leaf rust disease in wheat. In the International Wheat Seminar, Ayub Agricultural Research Institute, Faisalabad, Pakistan 20th Feb., 2006.
- Malik, T.A., Sana-Ullah, M. Ashraf and S. Malik. 2006. Genetic linkage studies of drought tolerant and agronomic traits in cotton. In the International Symposium on Strategies for Crop Improvement

Against Abiotic Stresses, Organized by the Department of Botany, University of Agriculture, Faisalabad, Pakistan. 18-20 September, 2006.

Rahman, S., T.A., Malik, M. Ashraf and S. Malik. 2006. DNA markers for Insect Resistance. In the International Conference; Biotechnology: Shaping future Agriculture. June 20-21, University of Arid Agriculture, Rawalpindi, Pakistan

Department of Agronomy

Local

2005

- Abbas, G., A. Hussain, A. Ahmad and Aftab Wajid. 2005. Effect of Irrigation Schedules and Nitrogen Rates on Yield and Yield Components of Maize. *J. Agric. and Social Sci.* 1(4): 335-338.
- Abbas, G., A. Hussain, A. Ahmad and Aftab Wajid. 2005. Water Use Efficiency of Maize as Affected By Irrigation Schedules and Nitrogen Rates. *J. Agric. and Social Sci.* 1(4): 339-342.
- Abdul Jabbar, Riaz Ahmad, Ehsan Ullah and M. Shafi Nazir. 2005. Agronomic approaches for productivity enhancement of upland rice-based intercropping systems under strip plantation. *Pakistan J. Agric. Sci.* 42(1-2):14-17.
- Abdul Jabbar, Riaz Ahmad, Ehsan Ullah and M. Shafi Nazir. 2005. Agro-economic performance of diversified rice-based relay cropping systems at zero and conventional tillage under strip plantation. *Pakistan J. Agric. Sci.* 42(1-2):18-21.
- Arshad, M., M. Rafiq Choudhary and Riaz Ahmad. 2005. Model predicted percolation below root zone under rice-wheat irrigated system. *European Journal of Scientific Research*, 10(2):92-99.
- Arshad, M., M.R.Choudhry and Riaz Ahmad. 2005. Ground water recharge contribution from various components of irrigation water conveyance system of Rechna Doab of Punjab, Pakistan. *Pakistan Journal of Water Resources*, 9(1): 17-24.
- Bhatti I. H., Riaz Ahmad and M. Shafi Nazir. 2005. Agronomic traits of sesame as affected by grain legumes intercropping and planting patterns. *Pakistan J. Agric. Sci.* 42(1-2):56-60.
- Bhatti, I. H, Riaz Ahmad and M Shafi Nazir. 2005. Agro-economic advantages of different sesame-based intercropping systems under different planting patterns. *Pakistan J. Arid Agric.*, 8(1): 1-4.
- Cheema, Z.A., A.H. Khichi and A. Khaliq. 2005. Feasibility of reducing herbicide dose in combination with Sorgaab for weed control in transplanted fine rice (*Oryza sativa*). *Int. J. Agri. & Bio.* 7(6): 892-894.
- Cheema, Z.A., B. Ali and A. Khaliq. 2005. Determining suitable combination of Sorgaab and pendimethalin for weed control in cotton (*Gossypium hirsutum* L.). *Int. J. Agri. & Bio.* 7(6): 889-891.
- Hussain, A., A. Ahmad, Aftab Wajid, M. M. Bajwa and T. Khaliq. 2005. Climate change and wheat productivity: impacts and adaptations. (Paper submitted). Workshop on Agriculture and Environment, 3-4 Oct, 2005, Ministry of Environment, Islamabad.
- Ibni Zamir, M.S., Riaz Ahmad and A.U. Haq. 2005. Performance of rice in different rice-based cropping systems sown after different legume and non-legume crops. *J. Anim. Pl. Sci.*, 15(3-4): 79-81.
- Ibni Zamir, M.S., Riaz. Ahmad and A.U.Haq 2005. Agro-economic performance of different rice-based cropping systems at conventional and zero tillage. *J. Anim. Pl. Sci.*, 15(1-2): 29-32.
- Khaliq, A. and Z. A. Cheema. 2005. Effect of irrigation regimes on some agronomic traits and yield of different sunflower (*Helianthus annuus* L.) hybrids. *Int. J. Agric. Biol.*, 7(6): 920-924.
- Khaliq, A. and Z. A. Cheema. 2005. Influence of irrigation and nitrogen management on some agronomic traits and yield of hybrid sunflower (*Helianthus annuus* L.). *Int. J. Agric. Biol.*, 7(6): 915-919.
- Khan, M. B. and A. Khaliq. 2005. Production of winter cereals as relay crops by surface seeding in cotton based cropping systems. *J. Res. (Science)*, 16(2): 79-86.
- Malik, M.A., M.F. Saleem, A. Ali and R.A. Foraz. 2005. Effect of sowing date and planting patterns on growth and yield of mungbean (*Vigna radiate* L.) CVM-6. *J. Agri. Res.* 44(1):
- Malik, M.A., M.F. Saleem, A. Rehman and N.G. Nabi. 2005. Determining suitable spatial arrangement and sowing time for sunflower (*Helianthus annuus* L.). *Agric. Sci. J. Pak.* 2(2): 57-59.
- Maqsood, M., M.H. Babar and M. Tayyab. 2005. Effecting nursery transplanting techniques and nitrogen levels on growth and yield of fine rice (Basmati-2000). *Pak. J. Agric. Sci.* Vol. 42(39): 21-24.
- Maqsood, M., T. Hussain and M. Tayyab. 2005. Comparative productivity performance of sugarcane (*Saccharum officinarum* L.) sown in different planting patterns at farmer's field. *Pak. J. Agric. Sci.* 42(3-4): 25-28.

- Naveed, A. and, M.A. Malik. 2005. Effect of planting date and irrigation levels on achene yield and oil contents of spring sunflower. J. Agri. Res. 43(2): 145-154.
- Naveed, A. and, M.A. Malik. 2005. Yield response of diverse sunflower hybrids to varying nitrogen. J. Agri. Res. 43(2): 135-144.
- Rafiq, M., A. Hussain, A. Ahmad, S.M.A. Basra, Aftab Wajid, J. Anwar, M. Ibrahim and M.A. Goheer. 2005. Effect of irrigation on agronomic traits of wheat (*Triticum aestivum* L.). Int. J. Biol. Biotech., 2(3): 751-759.
- Rafiq, M., A. Hussain, A. Ahmad, S.M.A. Basra, Aftab Wajid, J. Anwar, M. Ibrahim and M.A. Goheer. 2005. Moisture effects on the growth pattern of yield contributing factors in Wheat, (*Triticum aestivum* L.) J. Agric. Res., 43(3): 189-210.
- Saleem, M.F. and M.A. Malik. 2005. Yield and quality response of autumn planted sunflower (*Helianthus annuus* L.) to different phosphorus levels. J. Agric. Res. 43(1): 9-17.
- Tanveer, A., M. Ayub, A. Ali and M.A. Nadeem. 2005. Effect of soil incorporated herbicide on weeds and yield of canola (*Brassica napus* L.). Pak. J. Bot. 30(3): 661-666.

2006

- Ahmad A.H., Riaz Ahmad, N. Mahmood and A.Tanveer. 2006. Performance of forage sorghum intercropped with forage legumes under different planting patterns. Pakistan J. Botany, 38(3): 2006.
- Ahmad, A., A. Hussain, M. M. Bajwa and Aftab Wajid. 2006. Wheat productivity in relation to interception of radiation as affected by cultivar and nitrogen rate under semi arid conditions. (Paper submitted). International Wheat Seminar. Wheat Res. Institute. Faisalabad.
- Bhatti, I. H., Riaz Ahmad, Abdul Jabbar, M.S. Nazir and T. Mahmood. 2006. Competitive behaviors of component crops in different sesame-legume intercropping systems. Int. J. Agric. and Biol., 8(2): 165-167.
- Malik, M.A., M.A. Cheema, H. Z. Khan and M.A. Wahid. 2006. Growth and yield response of soybean (*Glycine max* L.) to seed inoculation and varying phosphorus levels. J. Agric. Res. 44(1):
- Maqsood, M., A. Hussain, A. Ahmad and Aftab Wajid. 2006. Effect of planting methods and variable rates of nitrogen on the yield components and quality of wheat. (Paper submitted). International Wheat Seminar. Wheat Res. Institute. Faisalabad.
- Maqsood, M., T. Hussain and M. Tayyab. 2006. Effect of different irrigation levels on the yield radiation use efficiency of cotton under two sowing methods. Pak. J. Agric. Sci. 2006.

Papers Presented/Published at International Conferences

2005

- Aamer, I and Z.A. Cheema. 2005. Comparative efficacy of sorghum allelopathic potential for controlling barn yard grass in rice. Proceedings of fourth world congress on allelopathy, Australia.
- Ahmad, A., A. Hussain, S. Iqbal and Z. Hussain. 2005. Growth, radiation use efficiency and paddy yield of fine rice (Super Basmati) as affected by sowing date and split nitrogen application. International Seminar on Rice 2-3 Oct., 2005. Rice Research Institute, Kala Shah Kaku, Lahore.
- Cheema, Z.A., A. Khaliq and N. Iqbal. 2005. Use of allelopathy in field crops in Pakistan. Proceedings of fourth world congress on allelopathy, Australia.
- Cheema, Z.A., A. Khaliq, A. Irshad and A. H. Khichi. Presented research paper entitled "Use of allelopathy for controlling weeds in rice crop" in Intl. seminar on rice. Rice Research Institute, Kala Shah Kaku on 2-3 October, 2005.

2006

- Ahmad, A., A. Hussain, M.M. Bajwa and A. Wajid. 2006. Wheat productivity in relation to interception of radiation as affected by cultivar and nitrogen rates under semi-arid conditions. International Wheat Seminar, Wheat Research Institute, Faisalabad, 20-21 February, 2006.
- Cheema, Z.A. and A. Khaliq. Presented research paper entitled " Application of allelopathy for weed management in wheat in Intl., Seminar on Wheat, AARI, Faisalabad on 20-21 February, 2006.

- Cheema, Z.A., A. Khaliq, M.N. Mushtaq and M. Akram. Presented research paper entitled “ Application of allelopathic crop water extracts in combination with reduced dose of herbicide for weed control in wheat in 2nd Intl. Weed Science Conference on March 20-22, 2006.
- Iqbal, J. and Z.A. Cheema. Presented research paper entitled “Intercropping of allelopathic crops in cotton purple nutsedge management in 2nd Intl. Weed Science Conference on March 20-22, 2006.
- Maqsood, M., A. Hussain, A. Ahmad and A. Wajid. 2006. Effect of planting methods and variable rates of nitrogen on the yield components and quality of wheat. International Wheat Seminar, Wheat Research Institute, Faisalabad, 20-21 February, 2006.

Papers Presented and/or Published at National Conferences

- Cheema, Z.A., A. Khaliq and M.N. Mushtaq. Presented paper entitled “ Allelopathic research in Pakistan” in Training Workshop on 12-13, June, 2006.

Department of Forestry, Range Management and Wildlife

Nil

FACULTY OF AGRI. ECONOMICS & RURAL SOCIOLOGY

Department of Agricultural Economics

National

- Gill. Z.A. 2005. An Economic analysis of wheat farming in the mixed farming zone of Punjab province, Pakistan. *Journal of Agriculture and Social Science*, Vol. 1, No. 2, 2005.
- Gill. Z.A. 2005. Assessment of the impact of sewage water on Radish cultivation in Punjab: A use of Dummy Variable. *Environmentally sustainable Development*, Vol. III. Department of Environmental Sciences, COMSATS Institute of Information Technology, Abbottabad. 2005.
- Gill. Z.A. 2005. Comparative Advantage and Competitiveness of Wheat crop in Pakistan. Lahore, *Journal of Economics*. Vol. 10, No. 2, 2005.
- Gill. Z.A. 2005. Effect of Sewage Water on Spinach yield. *International Journal of Agriculture and Biology*, Vol. 8, No. 1, 2006.
- Gill. Z.A. 2005. Effects of Poor Quality of Ground Water On Carrot Production: A Comparative Study. *J. of Agriculture and Social Sciences*, 1813-2235/2005/01-1-38-40, <http://www.ijabjass.org>
- Gill. Z.A. 2005. Estimation of Economic value of irrigation water. *J. of Agriculture and Social Sciences*, 1813-2235/2005/01-3-270-72, <http://www.ijabjass.org>
- Gill. Z.A. 2005. Factors affecting yield and profitability of Carrot in two Districts of Punjab. *International Journal of Agriculture and Biology*, Vol. 7, No. 5, 2005.
- Gill. Z.A. 2005. Linear Program Modeling for Determining the value of irrigation water, *J. of Agriculture and Social Sciences*, 1813-2235/2006/02-2-101-105, <http://www.ijabjass.org>
- Gill. Z.A. 2005. Marginal Propensity to Consume: An Application to Small Farmers Of Punjab. *Journal of Agriculture and Social Sciences*. Vol. 1, No. 3, 2005.
- Gill. Z.A. 2005. Optimal Hedging Ratio for Wheat Import. *International Journal of Agriculture and Biology*, Vol. 8, No. 1, 2006.
- Gill. Z.A. 2005. Profitability and Various Constraints in Potato Cultivation. *Pakistan Journal of Agricultural Sciences*, No. 42. 2005.
- Gill. Z.A. 2005. Stochastic Frontier production function: Application and hypothesis testing. *Pakistan International Journal of Agriculture and Biology*, Vol.7, No. 3, 2005.
- Gill. Z.A. 2005. Technical efficiency of wheat farmers in the mixed farming system of Punjab, Pakistan *International Journal of Agriculture and Biology*, Vol.7, No.3, 2005.
- Gill. Z.A. 2005. Use of Sewage Water for Radish Cultivation: A case study of Punjab, Pakistan. *Journal of Agriculture and Social Science*, Vol. 1, No. 3, 2005.

**Department of Development Economics
Foreign**

2005

Amin, A.T.M.N. 2005. The Informal Sector's Role in Urban Environmental Management. *International Review for Environmental Strategies*. Vol. 5, No.2, pp 511-529.

2006

Amin, A.T.M.N. 2006. Editorial Introduction, *Regional Development Dialogue*, special issue on Environment for Sustainable Development. Vol. 27, No. 1

Amin, A.T.M.N. and Jarusombut, S.; Thuy, T.T.B.; and Thanaprayochask, W. 2006. Environmental Management Measures for Influencing Human Behaviour Towards Sustainable Development. *Regional Development Dialogue*, Vol. 27, No.1 (in press).

Chowdhury, F.J. and Amin, A.T.M.N. 2006. Environmental Assessment in Slum Improvement Programs: Some Evidence from a Study on Infrastructure Projects in Two Dhaka Slums. *Environmental Impact Assessment Review*, Vol. 26, pp.530-552.

National

2006

Maqbool, A and Hassan, I. 2006. Criteria for developing special products under WTO. *The World Trade Review*, Fortnightly from Islamabad. 1-15 November, 2005. Issue No.21, Volume No.5.

Maqbool, A and Hassan, I. 2006. Sugarcane under the clutches of Globalization. *The World Trade Review*, Fortnightly from Islamabad. 16-31 December, 2005. Issue No.24, Volume No.5.

Maqbool, A and abedullah. 2006. Problems in agriculture, their impact on productivity and possible remedies. *The World Trade Review*, Fortnightly from Islamabad. 16-28 February, 2006. Issue No.4, Volume No.6.

Papers presented/published at International Conferences by the Faculty

Amin, A.T.M.N. 2006. Priority Actions in Financial & Economic Dimensions. 3R South Asia Exper Workshop, 30 August-1 September 2006, ICIMOD, Kathmandu, Nepal

Amin, A.T.M.N. 2006. Financing for Sustainable Service Provisioning: The Role of International Financial Institutions. Second South Asian Conference on Sanitation (SACOSAN-2), 20-21 September 2006, Hotel Marriott, Islamabad.

Department of Environmental and Resource Economics

National

2005

Ahmad, B., Bakhsh, K., Hassan, S. and Ahmad, W. 2005. Profitability and various constraints in potato cultivation. *Pakistan Journal of Agricultural Sciences*, 42: 68-73.

Ahmad, B., Hassan S. and Bakhsh, K. 2005. Factors affecting yield and profitability of carrot in two districts of Punjab. *International Journal of Agricultural and Biology*, 7:794-98.

Bakhsh, K., Hassan, I. and Maqbool, A. 2005. Impact assessment of zero tillage technology in rice wheat system: a case study of Pakistani Punjab. *Electronic Journal of Environmental, Agricultural and Food Chemistry*, 4:1132-1137.

Bakhsh, K; Ashfaq, M; and Alam, M.W. 2005. Effects of poor quality of ground water on carrot production: A comparative study. *Journal of Agriculture and Social Sciences* 1: 52-54.

Iqbal, N., Bakhsh, K., Maqbool, A. and Ahmad, A.S. 2005. Use of the ARIMA model for forecasting wheat area and production in Pakistan. *Journal of Agriculture and Social Sciences*, 1(2): 120-122.

Ghafoor, A. Abedullah and Bashir, S. 2005. Import Demand Function of Wheat and Future Trends. *Journal of Agriculture and Social Sciences*, 1:350-354.

Hussain, Z. Abedullah and Sabir, S. 2005. Competitiveness and Efficiency of Milk Production in the Central Punjab. European Journal of Scientific Research, Vol. 7, No. 1, 2005. (Published from Vienna, Austria)

2006

Ali, T., Hassan, S., Mushtaq, K. and Bakhsh, K. 2006. Optimal hedging ratio for Pakistan's wheat imports. International Journal of Agricultural and Biology, 1:97-101.

Bakhsh, K., Hassan, I. and Shafiq, M. 2006. Profitability and cost in growing mango orchards. Journal of Agricultural and Social Sciences, 2:46-50.

Papers presented/published at national conferences

Bakhsh, K. and Hassan, S. 2005. Assessment of the impact of sewage water on radish yield in Punjab: A use of dummy. Proceedings of 1st International Conference on Environmentally Sustainable Development, Abbatabad, Pakistan. Volume III, 792-8.

Bakhsh, K. and Saleem, B.A. 2005. Economics of growing mango. Poster at 1st International Conference on Mango and Date Palm: Culture and Export, University of Agriculture, Faisalabad, Pakistan

Department of Marketing and Agribusiness

2005

Ahmad, B., A. Ghafoor and H. Badar. 2005. Forecasting and Growth Trend of Production and Export of Kinnow from Pakistan. Journal of Agriculture and Social Sciences. Vol. 1, No. 1. Friends Science Publishers, Faisalabad.

Aurangzeb, M. Khan, Naseer Ali and K. Mustafa. 2005. Utilization of Foreign Remittances in NWFP. The Journal of Humanities and Social Sciences Vol. XIII, No. 1 & 2.

H. Badar and Q. Mohy-ud-Din. 2005. Wheat Production and Marketing: A Comparative Study of Progressive and Traditional Farmers in Faisalabad District. Journal of Agriculture and Social Sciences. Vol. 1, No. 1. Friends Science Publishers, Faisalabad.

Hussain, A and K. Mustafa. 2005. An Appraisal of Punjab Rural Support Programme in the Selected Field Units in Faisalabad. Sarhad Journal of Agriculture, Vol. 21, No. 1.

Hussain, Z., H. Badar, and M. F. Hussain. 2005. Rural Water Markets in Pakistan: Prevalence, Problems and Prospects. European Journal of Scientific Research, Vol. 9, No. 2. AMS Publishing Inc. Austria.

2006

Ahmad, B. and K. Mustafa. 2006. Forecasting Kinnow Production in Pakistan: An Econometric Analysis, International Journal of Agriculture and Biology Vol. 8, No. 4 pp. 455-458

Mustafa, K. and Burhan Ahmad. 2006. An Econometric Model for Forecasting Export of Kinnow from Pakistan. International Journal of Agriculture and Biology Vol. 8, No. 4. PP 259-462.

Department of Rural Sociology

Research papers published during 2005-06

2006

Maan, A.A. 2006. A sociological study of factory working women: A case study of Faisalabad city journal of Agricultural & Social Sciences.

Maan, A.A. 2006. Sociological issues in child labor at Automobile and Engineering workshops. Journal of Agricultural Social Sciences.

Maan, A.A. 2006. Socio-cultural factors influencing mother's attitude towards their daughter's education in Rural Faisalabad. Pakistan Journal of Social Sciences.

- Maan, A.A. 2006. Factors affecting skill development and job opportunities for young females in Faisalabad. *Journal of Agricultural and social sciences*.
- Maan, A.A. 2006. Women's nutritional values and their participation in economic development: A case study in Faisalabad. *International Journal of Agriculture and Biology*.
- Maan, A.A. 2006. Intergenerational mobility and its impact on child development. *International Journal of Agriculture and Biology*.
- Maan, A.A. 2006. Women participation towards mate selection. *International Journal of Agriculture and Biology*.
- Maan, A.A. 2006. Problems of women employees at Faisalabad. *Journal of Agriculture and Social Sciences*.
- Maan, A.A. 2006. Elderly Migration Adjustment Problems in Urban Areas. Pakistan. *Journal of Agriculture and Social Sciences*.
- Maan, A.A. 2006. Farmers Perception and strategies regarding Basic Irrigation Methods. Pakistan. *Journal of Agriculture and Social Sciences*.
- Maan, A.A. 2006. Determinants of Migration in Punjab, A case study of Faisalabad Metropolitan. Pakistan. *Journal of Agriculture and Social Sciences*.
- Maan, A.A. 2006. Causes and Consequences of Child Labour in Carpet Weaving Industries in Tehsil, Faisalabad. *International Journal of Agricultural and Biology*.
- Maan, A.A. 2006. Change Gender Roles and Development: *Journal of Animals and Plant Sciences*.
- Maan, A.A. 2006. The Role of Organizational Structure and Culture in Influencing Employee's Strategic Behaviour, *Science International Journal*.
- Maan, A.A. 2006. Women Values of Education and Development, *Science International Journal*.
- Maan, A.A. 2006. Economic Values of Women and their Effect on Development, *Science International Journal*.
- Maan, A.A. 2006. Values of Religiosity and Development, *Science International Journal*.
- Maan, A.A. 2006. How Women Value Achieved Status In View of Development, *Science International Journal*.
- Maan, A.A. 2006. An Econometric Model for Forecasting Mango Production in Pakistan, *Science International Journal*.

FACULTY OF AGRI. ENGG. & TECHNOLOGY

Department of Irrigation and Drainage

Foreign

2005

- Arshad, M., M.R. Choudhry and R. Ahmad. 2005. Model predicted percolation below root zone under rice-wheat irrigated system. *European Journal of Scientific Research*, Euro journals inc. Vienna, Austria. Vol. 10(2): 92-99
- Bakhsh, A. and R.S. Kanwar. 2005. Spatial clusters of subsurface drainage water NO₃-N leaching losses. *Journal of the American Water Resources Association*, JAWRA, 41(2): 333-341.
- Bakhsh, A., R.S. Kanwar, D.L. Karlan. 2005. Effects of liquid swine manure applications on NO₃-N leaching losses to subsurface drainage water. *Agriculture, Ecosystems and Environment* 10991/2): 118-128.
- Kanwar, R.S., R.Cruse, M. Ghaffarzadeh, A. Bakhsh, D. Karlan and T. Bailay. 2005. Corn-Soybean and alternative cropping systems effects on NO₃-N leaching losses in subsurface drainage water. *Applied Engineering in Agriculture*, ASAE, 21(2): 181-188.

National

- Arshad, M., M R. Choudhry and R. Ahmed, 2005. Groundwater recharge contribution from various components of irrigation water conveyance system of Rechna Doab of Punjab, Pakistan. *Pakistan Journal of Water Resources*, Pakistan Council of Research in Water Resources (PCRWR). Islamabad, Pakistan. Vol. 9(1):17-24.
- Ahmad, M and M R. Choudhry. 2005. Farmers' irrigation practices under Rod Kohi irrigation system. *Pakistan Journal of Water Resources*, Pakistan Council of Research in Water Resources (PCRWR). Islamabad, Pakistan. Vol. 9(1). 25-33.

Paper presented and/or published at international conferences

2006

- Ahmah, N., J.K. Sial, M. Arshad and A.Saeed. 2006. Innovative designs and techniques for irrigation water saving. In: Proceedings of the International Conference on Agricultural Engineering: Issues and Strategies held at UAF on Feb 16-18, 2006, pp. 170-175.
- Bakhsh, A. and R.S. Kanwar. 2006. Watershed hydrologic Attributes Effects on crop yields. In: Proceedings of the International Conference on Agricultural Engineering: Issues and Strategies held at UAF on Feb 16-18, 2006, pp. 101-107.
- Choudhry, R.M. and Z. Rehman. 2006. Optimal water allocation for a canal command in the Indus Basin. In: Proceedings of the International Conference on Agricultural Engineering: Issues and Strategies held at UAF on Feb 16-18, 2006, pp. 101-107.
- Sarwar, A. 2006. A simple surface energy balance approach to estimate evapotranspiration using satellite data. In: Proceedings of the International Conference on Agricultural Engineering: Issues and Strategies held at UAF on Feb 16-18, 2006, pp. 28-36.

Department of Fibre Technology

2005

- Mahmood, N. M. Iftikhar and M. Nasir. 2005. Effect of AFIS settings on simplex machine gauges and their ultimate effect on P/C Yarn. The Indus Cottons Vol 2 (2):102-107.
- Mahmood, N. N.A. Jamil, and I. Bashir 2006. Technological studies on modified 21-C and conventional auto cone & with some mechanical variables. Pak. Tex. J.55 (02):52-54
- Mahmood, N. N.A. Jamil, and K. Ali. 2005. Comparative study of Murata 7-II and Schlafhorst-338 winding machines with some mechanical variables Pak. Tex. J.54 (08):59-62
- Mahmood, N. N.A. Jamil, and M. Ashraf. 2005. Influence of some mechanical variables on cotton yarn count, lea strength and count lea strength product at ring frame. The Indus Cottons Vol. 2 (3):208-215.
- Nawaz, S.M., B. Shahbaz and A. Farooq. 2005. Correlation study of speculated break factor derived through multiple fibre characteristics Advanced Textile Materials and Management Technology Conference Coimbatore, India July 1 to 4, 2005
- Nawaz, S.M., B. Shahbaz and M. Q. Tosief. 2005. Splice strength as affected by some splicing variables. Agri. Sci. J. Pak 1(2),51-53.
- Shahbaz, B., S. M. Nawaz, A. Farooq and M. Shakeel. 2005. Utilization of jute cutting in the preparation of jute yarn. J Agric. Research. 42(2): 209-216
- Shahbaz, B., N. A. Jamil and A. Farooq. 2005. Geometrical and dimensional properties of knitted fabrics: the effect of spinning systems and blending ratios International Textile Conference. Port Elizabeth (South Africa October 23-27 2005.

2006

- Mahmood, N. N.A. Jamil, and S.S. Ahmed. 2006. Technological study of auto-leveler at draw frame on cotton yarn quality. Journal of Applied Sciences.6 (2):287-291
- Nawaz, M., B. Shahbaz, A. Farooq and N. Ahmed. 2006. How blending affects OE yarn?. Indian Textile Journal 116(11). August 2006: 17-21
- Nawaz, S.M., B. Shahbaz and M.Q. Tosief. 2006. How twist and twist directions influences the sewing thread spinability. Journal of Applied Sciences 6(5):1090-1093.
- Nawaz, S.M., B. Shahbaz and B. Shahbaz. 2006. Effect of twist and combination of twist direction on shrinkage , diameter and actual twist/inch of the sewing thread. Pak. Textile Journal. Feb. 2006. 59-63.
- Shahbaz, B., A. Farooq, M. Asgher and K. Hassan. 2006. Performance evaluation of exotic and indigenous natural cullulytic enzymes as denim stone wash substitute. J. Chem. Soc. Pakistan. 27(6): 662-666
- Shahbaz, B., N.A. Jamil, M. Q. Tosief and M.Z. Ayyaz. 2006. Influence of various bleaching agents on bleaching of cotton knitted fabrics. J. Chem. Soc. Pakistan. 27(6): 572-574

Papers presented/published at an International Conferences

Shahbaz, B., N. A. Jamil and A. Farooq. 2005. Geometrical and dimensional properties of knitted fabrics: the effect of spinning systems and blending ratios International Textile Conference. Port Elizabeth (South Africa) October 23-27 2005.

Department of Structures and Environmental Engineering

National and international

2005

- Ahmad, R.N., J.K. Sial and M. Arshad. 2005. Development and Performance Evaluation of Solar Saline-Water Evaporator. Pakistan Journal of Water Resources, Vol.9(1):p41-48.
- Iqbal, M., J. K. Sial, R.K. Mahmood and M. Younis. 2005. Development of Environment Friendly Boom Sprayer Test Bench. Pak. J. Agri. Sci., Vol. 42(1-2).
- Sial, J. K. 2005. Tillage Practices for Wheat Fields. European Journal of Scientific Research. Vol. 12, No. 1. pp: 106-112.
- Sial, J.K., M. Amjad, A. Shafi and M.A.Khan. 2005. Development of Deep Well Jet Pump for Orchards. Pakistan Journal of Water Resources, Vol. 9(1): p 35-40.
- Sial, J.K., M. Amjad, A. Shafi and M.A.Khan. 2005. Development of Deep Well Jet Pump for Orchards. Pakistan Journal of Water Resources, Vol. 9(1): p 35-40.
- Sial, J.K., S. Bibi and A. S. Qureshi. 2005. Environmental Impacts of Sewage Water Irrigation on Groundwater Quality. Pakistan Journal of Water Resources, Vol.9(1):p49-53.

2006

- Sial, J.K., Khawaja A. Hussain, and A. Shafi. 2006. Factors Affecting Fuel Efficiencies of Commercial Trucks. Journal of Applied Science and Engineering. NWFP University of Engineering and Technology, Peshawar. (Accepted for publication).
- Sial, J.K., Khawaja A. Hussain, and A. Shafi. 2006. Factors Affecting Fuel Efficiencies of Commercial Trucks. Journal of Applied Science and Engineering. NWFP University of Engineering and Technology, Peshawar. (Accepted for publication).
- Sial, J.K., Khawaja A. Hussain, and A. Shafi. 2006. Fuel Efficiency of Urban Wagons. Scientific Khyber – A Biannual Journal of Science and Technology, University of Peshawar, Pakistan. (Accepted for publication).
- Sial, J.K., Khawaja A. Hussain, and A. Shafi. 2006. Fuel Efficiency of Urban Wagons. Scientific Khyber – A Biannual Journal of Science and Technology, University of Peshawar, Pakistan. (Accepted for publication).
- Sial, J.K., Khawaja A. Hussain, and A. Shafi. 2006. Investigations of Smoke Opacity in Commercial Trucking. Journal of Applied Science and Engineering. NWFP University of Engineering and Technology, Peshawar. (Accepted for publication).
- Sial, J.K., Khawaja A. Hussain, and A. Shafi. 2006. Investigations of Smoke Opacity in Commercial Trucking. Journal of Applied Science and Engineering. NWFP University of Engineering and Technology, Peshawar. (Accepted for publication).
- Sial, J.K., Khawaja A. Hussain, and A. Shafi. 2006. Smoke Opacity Issues of Urban Wagons. Scientific Khyber – A Biannual Journal of Science and Technology, University of Peshawar, Pakistan. (Accepted for publication).
- Sial, J.K., Khawaja A. Hussain, and A. Shafi. 2006. Smoke Opacity Issues of Urban Wagons. Scientific Khyber – A Biannual Journal of Science and Technology, University of Peshawar, Pakistan. (Accepted for publication).

Papers presented/published in different international conferences

2006

- Nasir, A., K. Uchida and J. K. Sial. 2006. Computation of Erosivity Factor with Daily Rainfall Data in Shiga Prefecture. Proceedings of the International Conference on Agricultural Engineering – Issues and Strategies, held at University of Agriculture Faisalabad, Pakistan. February 16-18, 2006.

- Nasir, A., K. Uchida and J. K. Sial. 2006. Computation of Erosivity Factor with Daily Rainfall Data in Shiga Prefecture. Proceedings of the International Conference on Agricultural Engineering – Issues and Strategies, held at University of Agriculture Faisalabad, Pakistan. February 16-18, 2006.
- Niaz, A, J. K. Sial, M. Arshad and A. Saeed. 2006. Innovative Designs and Techniques for Irrigation Water Saving. Proceedings of the International Conference on Agricultural Engineering – Issues and Strategies, held at University of Agriculture Faisalabad, Pakistan. February 16-18, 2006.
- Sial, J.K. 2006. Indus Basin as Evolving HELP Basin. Paper Presented at UNESCO HELP Australian Coordination Unit Meeting held at International Centre for WATER, Charles Sturt University, Wagga Wagga, Australia May 15, 2006.
- Tahir, A. R., I.S. Ahmad and Dr. Faizan Ul Haq Khan. 2006. Probing Agricultural Engineering Education in Pakistan in changing World. Proceedings of the International Conference on Agricultural Engineering – Issues and Strategies, held at University of Agriculture Faisalabad, Pakistan. February 16-18, 2006.
- Zia, Khalid Mehmood and Dr. Faizan Ul Haq Khan. 2006. A New saturation Index for calcium carbonate scale Prediction in Cooling water systems. Proceedings of the International Conference on Agricultural Engineering – Issues and Strategies, held at University of Agriculture Faisalabad, Pakistan. February 16-18, 2006.

Department of Farm Machinery and Power

2005

- Iqbal, M, J.K. Sial, R.K. Mahmood, and M. Younis. 2005. Development of Environment friendly Boom Sprayer Test Bench. Pakistan Journal of Agricultural Sciences, Society for the Advancement of Agricultural Sciences, University of Agriculture, Faisalabad, Pakistan, 41(1-2):89-98.
- Iqbal, M. M. Ahmad, and M. Younis. 2005. Effect of Reynold's Number on droplet size of hollow cone nozzle of environment friendly University Boom Sprayer. Pakistan Journal of Agricultural Sciences, Society for the Advancement of Agricultural Sciences, University of Agriculture, Faisalabad, Pakistan, 42(3-4):106-111
- Iqbal, M., .S. Sabir, and M. Younis. 2005. Development of an Energy Efficient wheat-planting machine, Journal of Engineering and Applied Sciences, N. W. F. P. University of Engineering and Technology, Peshawar, Pakistan, 24(1):67-72.
- Iqbal, M., H.S. Mahmood, and M. Younis. 2005. Development of a Drop-pipe type University Boom Sprayer. Journal of Engineering and Applied Sciences, N. W. F. P. University of Engineering and Technology, Peshawar, Pakistan, 24(1):67-71.
- Iqbal, M., Kh. A. Hussain, and A. Munir. 2005. Evaluation of spray uniformity distribution by environment friendly University Boom Sprayer Test Bench. Pakistan Journal of Agricultural Sciences, Society for the Advancement of Agricultural Sciences, University of Agriculture, Faisalabad, Pakistan, 42(3-4).

Papers presented/published at International Conferences;

2006

- M. A. Shahin, S. J. Symons, L. V. Schepdael, A. R. Thair, 2006. Three Dimensional Seed Shape and Size Measurement with Orthogonal Cameras, ASABE International Conference, USA.
- R. Tahir, S. Neethirajan, D. S. Jayas, J. Paliwal, 2006. Assessment of Machine Vision Algorithm for Quantification of Foreign Matter in Wheat, ASABE International Conference, USA.

Papers presented /published at National Conferences;

- Tahir, A. R., J. S. Ahmad, F. H. Khan. 2005. Probing Agricultural Engineering education in Pakistan in a Changing World. International Conference on Issues & Strategies of Agri. Engg. held on Feb 15, 2005 at Centennial Celebration of U.A.F.

FACULTY OF VETERINARY SCIENCES

Department of Veterinary Anatomy

Foreign

2005

- Qureshi, A. S. and H. Enbergs. 2005. Lysozyme Activity in the Milk of Sucking Dromedaries during Early Lactation Period. *J. Camel Prac. Res.* 11(1):87-93.
- Qureshi, A. S. and H. Enbergs. 2005. Effects of weaning on lymphocyte proliferation, PMN phagocytic activity and IgA concentration in foals of different breeds. *Veteriarski Arhiv (Germany)* (accepted).
- Shah, M. G., A. S. Qureshi, M. Reißmann and H. J. Schwartz. 2005. Performance Traits of Different Pakistani Camel Breeds. *Deutscher Tropentag*, October 11-13, Hohenheim.
- Shah, M. G., A. S. Qureshi, M. Reißmann and H. J. Schwartz. 2005. MC1R in camels. First Conference of Int'l Society for Camel Research and Development, Al-Ain, UAE.
- Shah, M. G., M. Reißmann, A. S. Qureshi and H. J. Schwartz. 2005. Sequencing and Mutation Screening in Exon 1 of Camel Tyrosinase Gene. *Deutscher Tropentag*, October 11-13, Hohenheim.

2006

- Hussain, R. and A. S. Qureshi. 2006. Morphometry of the age induced histological changes in the heart, kidneys and adrenal glands of Nili-Ravi buffalo (*Bubalus bubalis*). *Italian Journal of Anatomy and Embryology*, Vol. 3 (Suppl. 1) Pp:211. (*Proc. XXVI Congress of European Association of Veterinary Anatomists held in Messina, Italy on 19-22 July, 2006*).
- Qureshi, A. S. and H. Enbergs. 2006. Effects of Sausurea lappa root extract on leukocyte phagocytic activity, lymphocyte proliferation and interferon- γ . *GTCbio's Immunodiagnostic and Immunomonitoring: From Research to Clinic* conference, Nov. 5-7, 2006 in San Diego, CA. (accepted).
- Qureshi, A. S., Shah, M. G., M. Reißmann and H. J. Schwartz. 2006. Differentiation of Six Pakistani camel breeds by Phenotype and molecular genetic analysis". *AvH Colloquium on "Advances in Biotechnology and Scientific advances in Socio-economic Benefits"* in Pennag, Malaysia on September, 22-25, 2006.
- Rehan, S. and A. S. Qureshi. 2006. Microscopic evaluation of the heart, kidneys and adrenal glands of one-humped camel-calves (*Camelus dromedarius*) using semi automated image analysis system. *J. Camel Prac. Res. (India)* 13(2): accepted
- Rehan, S. and A. S. Qureshi, 2006. Morphometric evaluation of the heart, kidneys and adrenal glands of one-humped camel-calves (*Camelus dromedarius*). *J. Camel Prac. Res. (India)* 13(2): accepted.

Department of Animal Reproduction

National

2005

- Ahmad, M., M.T. Asmat and Najib-ur-Rehman, 2005. Relationship of testicular size and libido to age and season in Sahiwal bulls. *Pakistan Vet. J.*, 25(2): 67-70.
- Ahmad, S., I. Ahmad, L.A. Lodhi, N. Ahmad and H.A. Samad, 2005. Clinical, haematological and serum macro mineral contents in buffaloes with genital prolapse. *Pakistan Vet. J.*, 25(4): 167-170.
- Arshad, H.M., N. Ahmad, Zia-ur-Rehman, H.A. Samad, N. Akhtar and S. Ali, 2005. Studies on some biochemical constituents of ovarian follicular fluid and peripheral blood in buffaloes. *Pakistan Vet. J.*, 25(4): 189-193.

2006

- Akhtar, M.S., A. Saima, B. Nighat and N. Ahmad, 2006. Effect of antioxidant rich diets on lipid profile and blood pressure in cardiovascular patients. *Proc. Pakistan Acad. Sci.*, 43(2): 109-119.

Ali, S., N. Ahmad, N. Akhtar, Zia-ur-Rehman and M. Sarwar, 2006. Effect of season and age on the ovarian size and activity of one humped camel (*Camelus dromedarius*). *Asian-Austr. J. Anim. Sci.*, (Accepted for publication)

Department of Veterinary Parasitology

Foreign

2005

Ayaz, M.M. Akhtar, M., 2005. Diagnosis of mastitis by benzoic acid (benzene sulfonic acid) and sodium carbonate on pregnant and lactating mastitic animals. *Mastitis in Dairy production (current knowledge and future solutions)*, Wageningen Academic Publishers, The Netherlands

Khan, M.N., Z. Iqbal, M.S. Sajid and M. Anwar, 2005. Comparative Efficacy of Ivermectin and Cypermethrin against Hypodermosis in Southern Punjab (Pakistan). *Ibn-Al-Haitham J. Sci. Tech.*, 1: 16–9

Iqbal, Z., M. Lateef, A. Jabbar, G. Muhammad and M.N. Khan, 2005. Anthelmintic Activity of *Calotropis procera* (Ait.) Ait. F. Flowers in Sheep. *J. Ethnopharm.*, 102: 256–261

Muhammad, G., A. Jabbar and Z. Iqbal, 2005. Canine dirofilariasis. *Ind. Vet. J.*, 82: 987-988

2006

Akhtar, M., H.M. Ishaq, 2006. Effect of coccidiosis on the humoral response of chickens vaccinated against hydropericardium syndrome. *Online Journal of Veterinary Research*, 10 (1): 1-6

Akhtar, M., M.A Hafeez and A.U. Haq, 2005. Immunity against Coccidiosis in Poultry –A Review. *International Journal of Poultry Science* 4 (10): 812-817.

Akhtar, M., M.A. Hafeez, M.T. Javed and I. Hussain, 2006. Immunogenic characterization of egg-adapted gametocytes of *Eimeria tenella*. *Parasitol. Res.*, 99: 293–296.

Hafeez, M.A., M. Akhtar and I. Hussain, 2006. Protective effect of egg-propagated *Eimeria tenella* (local isolates) gametocytes as vaccine (s) against mixed species of coccidia in chickens. *Parasitol. Res.*, 98: 539-544.

Hafeez, M.A., M. Akhtar, M.M. Ayaz, 2006. Some observations on the adaptation of *Eimeria tenella* (local isolates) sporozoites on chicken embryos through chorioallantoic membrane. *Journal of Veterinary Science*, 7(1): 59–61.

Iqbal, Z., M. Lateef, A. Jabbar, M.N. Ghayur and A.H. Gilani, 2006. *In vitro* and *In vivo* Anthelmintic activity of *Nicotiana tabacum* L. Leaves Against Gastrointestinal Nematodes of Sheep. *Phytotherapy Res.*, 20: 46-48

Iqbal, Z., M. Lateef, A. Jabbar, M.N. Ghayur and A.H. Gilani, 2006. *In vivo* anthelmintic activity of *Butea monosperma* against trichostrongylid nematodes in sheep. *Fitoterapia*, 77: 137-40

Iqbal, Z., M. Lateef, M.S. Akhtar, M.N. Ghayur, A.H. Gilani, 2006. *In vivo* anthelmintic activity of ginger against gastrointestinal nematodes of sheep. *J. Ethnopharm.*, 106: 285–287

Jabbar, A., Z. Iqbal, M.N. Khan, 2006. *In vitro* anthelmintic activity of *Trachyspermum ammi* seeds. *Pharmacog. Mag.*, 2: 126-9.

Khan, M.A., M. Sarwar, M. Nisa, M. S. Khan, S.A. Bhatti, Z. Iqbal, W.S. Lee, H.J. Lee, H.S. Kim and K. S. Ki, 2006. Feeding Value of Urea Treated Wheat Straw Ensiled with or without Acidified Molasses in *Nili-Ravi* Buffaloes. *Asian-Aust. J. Anim Sci.*, 19: 645-650

Lateef, M. Z. Iqbal, M.N. Khan, A. Jabbar and M.S. Akhtar, 2006. Anthelmintic Activity of *Swertia chirata* Buch-Ham. whole plant against Gastrointestinal Nematodes of Sheep. *Fitoterapia* 77: 463–465

Muhammad, G., A. Jabbar, Z. Iqbal, M. Athar and M. Saqib, 2006. A preliminary passive surveillance of clinical disease profiles of pneumatic cart pulling camels in Faisalabad metropolis (Pakistan). *Prev. Vet. Med.* 76: 273–279

Sajid, M.S., Z. Iqbal, G. Muhammad and M.U. Iqbal, 2006. Immunomodulatory effect of various antiparasitics: A review. *Parasitology* 132: 301–13

Shah, A.H., M.N. Khan, Z. Iqbal, M.S. Sajid and M.S. Akhtar, 2006. Some epidemiological aspects and vector role of tick infestation on layers of district Faisalabad (Pakistan). *World's Poul. J.*, 62:145-57

National

2005

- Bachaya, H.A., Z. Iqbal, A. Jabbar, R.Z. Abbas and Riasat Ali, 2005. Sub-clinical bovine mastitis in attock district of Punjab (Pakistan). *Int. J. Agri. Biol.*, 7: 1034-5.
- Bachaya, H.A., Z. Iqbal, G. Muhammad, A. Yousaf and H.M. Ali, 2005. Subclinical mastitis in buffaloes in Attock district of Punjab (Pakistan). *Pakistan Vet. J.* 134-6
- Hussain, M.A., M.N. Khan, Z. Iqbal and M.S. Sajid, 2005. Prevalence and Chemotherapy of Lice Infestation in Bovines. *Int. J. Agri. Biol.*, 7: 694–697.
- Iqbal, Z., A. Jabbar, M.S. Akhtar, G. Muhammad and M. Lateef, 2005. Possible role of ethnoveterinary Medicine in poverty reduction in Pakistan: Use of botanical anthelmintics as an example. *J. Agri. Soc. Sci.*, 2: 187-95.
- Iqbal, Z., M. Lateef, M.N. Khan, G. Muhammad and A. Jabbar, 2005. Temporal density of Trichostrongylid Larvae on a Communal Pasture in a Sub-tropical Region of Pakistan. *Pakistan Vet. J.*, 25: 87-91.
- Jabbar, A., Z. Iqbal, G. Muhammad and Z.D. Sandhu, 2005. An appraisal of training in veterinary parasitology in teaching institutions of Pakistan: contrasts with global approaches in veterinary education. *Pakistan Vet. J.*, 25: 35-39.
- Jabbar, A., Z. Iqbal, G. Muhammad, M.N. Khan, R.Z. Abbas, Z.D. Sandhu and M. Lateef, 2005. The Interplay of molecular biology and veterinary Parasitology: A need of the time. *Int. J. Agri. Biol.*, 7: 845-52.
- Lateef, M., Z. Iqbal, A. Jabbar, M.N. Khan and M.S. Akhtar, 2005. Epidemiology of Trichostrongylid Nematode Infections in Sheep under Traditional Husbandry System in Pakistan. *Int. J. Agri. Biol.* 7: 596-600.
- Lateef, M., Z. Iqbal, A. Jabbar, M.N. Khan and M.S. Akhtar, 2005. Epidemiology of Trichostrongylid Nematode Infections in Sheep under Traditional Husbandry System in Pakistan. *Int. J. Agri. Biol.* 7: 596-600.

Papers presented or Published in national Conferences

2005

- Lateef, M. Z. Iqbal, M.N. Khan, A. Jabbar and M.S Akhtar, 2005. Anthelmintic Activity of *Swertia chirata* Buch-Ham. whole plant against Gastrointestinal Nematodes of Sheep in 1st Kashmir International Science Conference organized by University of Azad Jammu & Kashmir in collaboration with HEC and Integrated Geosciences Research Project, University of A.J. & K. at University of Azad Jammu & Kashmir, Muzaffarabad (A.K.) Pakistan on September 20-21, 2005. (pp: 74)
- Shah, A.H., M.N. Khan, Z. Iqbal and M.S. Sajid, 2005. Some Epidemiological Aspects and Vector Role of Tick infestation on Layers. *Proc. 2nd National Conference on Agriculture and Animal Sciences*, Sindh Agriculture University Tandojam, Pakistan. November 23-25, 2005, P. 30.
- Sindhu, Z.D., Z. Iqbal, I.J. Hassan, A. Jabbar and M.N. Khan, 2005. Preliminary Observation on the Acaricidal Activity of 10% Neem Seed Kernel Extract in Cattle Calves in 1st Kashmir International Science Conference organized by University of Azad Jammu & Kashmir in collaboration with HEC and Integrated Geosciences Research Project, University of A.J. & K. at University of Azad Jammu & Kashmir, Muzaffarabad (A.K.) Pakistan on September 20-21, 2005. (pp: 6)

Papers presented or Published in International Conferences

2006

- G. Muhammad, M. Saqib, M.S. Sajid and A. Naureen, 2006. *Trypanosoma evansi* infections in himaliyan black bears (*selenarctos thibetanus*). *Kintoplastid Diseases-2006*, Dakar, Senegal from March 11–19, 2006.
- Hafeez M.A. M. Akhtar and I. Hussain. 2006 Evaluation of egg propagated Eimeria tenella (local isolates) gametocytes vaccine (s) against coccidiosis in chickens. 4th International Veterinary Vaccines and Diagnostics Conference, Oslo, Norway. June 25.29, 2006

Hassan, M., G. Muhammad, Z. Iqbal, A. Jabbar, A. Shakoor and Z.D. Sandhu, 2006. Trypanosomiasis in camel: 1. Prevalence 2. Comparative efficacy of Suranol T and Cymerlarsan. Kintoplastid Diseases-2006, Dakar, Senegal from March 11–19, 2006.

Department of Veterinary Pathology

Foreign

2005

Bashir M. and M.T. Javed, 2005. Effects of ethanol on brain and pancreas weights, serum sodium and potassium along with haematological parameters in quail (*Coturnix coturnix japonica*). *Avian Pathology*, (UK) 34(2): 96-100.

Khan, A., H. A. Bachaya, M. Z. Khan and F. Mahmood, 2005. Pathological effects of formalin (37% formaldehyde) feeding in female Japanese quails (*Conturnix conturnix japonica*). *Human & Experimental Toxicology*, 24(8): 415-422.

Muhammad G., M. Z. Khan, M. H. Hussain, Z. Iqbal, M. Iqbal, M. Athar, 2005. Ethnoveterinary practices of owners of pneumatic-cart pulling camels in Faisalabad City (Pakistan). *J. Ethnopharmacol.(Netherlands)*, 97(2):241-246.

Muhammad, G., M. Z. Khan, M. Athar, M. Saqib, 2005. *Dracunculus* infection in a dog during the 'post-eradication' period: the need for a longer period of surveillance. *Ann. Trop. Med. Parasitol.*, 99(1):105-107.

2006

Halper, J., B. Kim, A. Khan, J. H. Yoon and P.O. E. Mueller, 2006. Equine systemic proteoglycan accumulation: Degenerative suspensory ligament desmitis as a systemic disorder. *BMC Veterinary Research*, 2006, 2:12

Khan, A., M. A. Sultan, M. A. Jalvi and I. Hussain, 2006. Risk factors of lamb mortality in Pakistan. *Animal Research*, 55: 301-311.

Local

2005

Hussain, I., A. Shaukat, A. Khan, M. Khalid and T. Hamid, 2005. Seroprevalence and polypeptide analysis of infectious bronchitis virus in broilers. *Pakistan Veterinary Journal*, 25 (4): 194-196.

Shaheen, S., A. D. Anjum and F. Rizvi, 2005. Clinico-Pathological observations of pigeons (*Columba livia*) suffering from Newcastle disease. *Pakistan Veterinary Journal*, 25 (1): 5-8.

2006

Sami, M., F. Rizvi, A. D. Anjum and M. F. A Shah, 2006. Raising hyperimmune serum against avian Paramyxovirus (APMV-1) and pigeon Paramyxovirus (PPMV-1) rabbits and their cross reactivity. *Pak. J. Biol. Sci.*, 10: 22-24.

Papers presented and/or published at international Conferences

Kim, B., A. Khan, P.O.E. Mueller and J. Halper, 2005. Equine Systemic Proteoglycan Accumulation: Degenerative Suspensory Ligament Desmitis as a Systemic Disorder. Poster Presented on Veterinary Research Day, College of Veterinary Medicine, The University of Georgia, Athens, USA, October 24, 2005.

Department of Physiology and Pharmacology

2005

Javed, I, F.H. Khan, F. Muhammad, B. Aslam, T. Khaliq, L. Ali, Z. Iqbal. S. Mujib. 2005. Renal clearance and urinary excretion of nor floxacin in sheep. *Pak. Vet. J.*, 25(2): 51-54.

- Javed, I., M. Shahzad, T. Khaliq, F.H. Khan, F. Muhammad, B. Aslam and Z. Iqbal. 2005. Effect of dipyrone on the renal clearance and urinary excretion of norfloxacin in sheep. *Pak. Vet. J.*, 25(4): 171-174.
- Khalid, M., M.S. Anjum, M. Qureshi, Z.Rahman and R. Parveen. 2005. Study of water quality from the various areas of district Mirpur, Azad Kashmir. *Pak. J. Sci.* 57(67-72): 130-134.
- Muhammad, F., Monteiro-Riviere, N.A., Baynes, R.E., and Riviere, J.E. 2005. Effect of in vivo jet fuel exposure on subsequent in vitro dermal absorption of individual aromatic and aliphatic hydrocarbon fuel constituents. *Journal of Toxicology and Environmental Health A.* May 14;68(9): 719-37.
- Ullah, S., T. Ahmad, M.Q. Bilal, Zia-ur-Rahman, G. Muhammad and S.U. Rahman. 2005. The effect of severity of mastitis on protein and fat contents of buffalo milk. *Pak. Vet. J.* 25(1): 1-4.
- Muhammad, F., Monteiro-Riviere, N.A., and Riviere, J.E. 2005. Comparative in vivo toxicity of topical JP-8 jet Fuel and its individual hydrocarbon components: Identification of tridecane tetradecane as key constituents responsible for dermal irritation. *Toxicologic Pathology.* 33:258-266.
- Zafar, I.K., A.Hussain, M. Asharf, E.E. Valeem and I. Javed. 2005. Evaluation of variation soil and forage micro-mineral concentration in a semiarid Region of Pakistan. *Pak. J. Bot.*, 37(4): 921-931.

2006

- Javed, I. Z.U. Rahman, F.H. Khan, F. Muhammad, Z. Iqbal and B. Aslam, 2006. Renal clearance and urinary excretion of kanamycin in domestic ruminant species. *Pakistan. Vet. J.*, 26(1): 1-8.
- Javed, I., Z. Iqbal, Z.U. Rahman, F.H. Khan, F. Muhammad, B. Aslam and L. Ali, 2006. Comparative antihyperlipidaemic efficacy of *Trachyspermum ammi* extracts in albino rabbits. *Pakistan Vet. J.* 26(1): 23-29.
- Mansur A. Sandhu, Zia.U. Rahman and Sajjad U. Rahman, 2006. Dynamics of macrophages in laying hens during second and third production cycles after zinc induced molting *J. Poult. Sci.* 43: 286-295.
- Wajeeha, F.H. Khan, and I. Javed, 2006. Bioavailability and pharmacokinetics of norfloxacin after intramuscular administration in goats. *Pakistan Vet. J.* 26(1): 14-16.

Published Proceeding of 34th Pakistan (SAARC) Countries Science Conference (Abstract Booklet)

2006

- Muhammad Safdar Anjum and ZIA-UR-RAHMAN. 2006. Animal Sciences (Animal Husbandry, Zoology, Nutrition Marine Life and Fisheries). 34th Pakistan (SAARC) Countries Science Conference University of Veterinary and Animal Sciences, Lahore. 20th to 22nd February. Pakistan Association for the Advancement of Science, 1st Floor, Shadman Plaza, Shadman Market, Lahore.
- Muhammad Safdar Anjum and ZIA-UR-RAHMAN. 2006. General Sciences (Geology, Anthropology, Geography, Social Sciences and Education). 34th Pakistan (SAARC) Countries Science Conference University of Veterinary and Animal Sciences, Lahore. 20th to 22nd February. Pakistan Association for the Advancement of Science, 1st Floor, Shadman Plaza, Shadman Market, Lahore.
- Muhammad Safdar Anjum and ZIA-UR-RAHMAN. 2006. Plant Sciences (Botany, Agriculture and Forestry). 34th Pakistan (SAARC) Countries Science Conference University of Veterinary and Animal Sciences, Lahore. 20th to 22nd February. Pakistan Association for the Advancement of Science, 1st Floor, Shadman Plaza, Shadman Market, Lahore.
- Zia-ur-Rahman and Muhammad Safdar Anjum. 2006. Chemical Sciences (Chemistry Pure and Applied and Chemical Engineering). 34th Pakistan (SAARC) Countries Science Conference University of Veterinary and Animal Sciences, Lahore. 20th to 22nd February. Pakistan Association for the Advancement of Science, 1st Floor, Shadman Plaza, Shadman Market, Lahore.
- Zia-ur-Rahman and Muhammad Safdar Anjum. 2006. Mathematics and Engineering Sciences (Pure and Applied and All Braches of Engineering) 34th Pakistan (SAARC) Countries Science Conference University of Veterinary and Animal Sciences, Lahore. 20th to 22nd February. Pakistan Association for the Advancement of Science, 1st Floor, Shadman Plaza, Shadman Market, Lahore.
- Zia-ur-Rahman and Muhammad Safdar Anjum. 2006. Medical and Veterinary Sciences (Pharmacy, Biochemistry, Medicines, Microbiology, Dentistry, Public Health and Environmental Sciences). 34th Pakistan (SAARC) Countries Science Conference University of Veterinary and Animal Sciences, Lahore. 20th to 22nd February. Pakistan Association for the Advancement of Science, 1st Floor, Shadman Plaza, Shadman Market, Lahore.

Foreign 2005

- Hassan, M., G. Muhammad, C. Gutierrez, Z. Iqbal, A. Shakoor, and A. Jabbar, 2005. Evaluation of different diagnostic tests for *Trypanosoma evansi* infection among horses and camels in the Punjab region, Pakistan. *J. Camel Prac. Res.* 12(2): 95-97.
- Iqbal, Z., M. Lateef, A. Jabbar, G. Muhammad and M. N. Khan, 2005. Anthelmintic activity of *Calotropis procera* (Ait) Ait. F. flowers in sheep. *J. Ethnopharmacol.*, 102: 256–261.
- Muhammad G., A. Jabbar, and Z. Iqbal, 2005. Canine dirofilariasis. *Ind. Vet. J.*, 82:987–988.
- Muhammad G., M. Z. Khan, M. Athar, M. Saqib, 2005. Dracunculus medinensis infection during 'Post-eradication' period in a dog: the need for a longer period of surveillance. *Annals Trop. Med. Parasitol.* (England). 99:105–107.
- Muhammad, G., M. Saqib, Z.I. Qureshi, 2005 Traumatic reticuloperitonitis in a dairy buffalo. *Indian Vet. J.*, 82:658-659.
- Muhammad, G., M. Z. Khan, M.H. Hussain, Z. Iqbal, and M. Athar, 2005. Ethno-veterinary practices of owners of pneumatic-cart pulling camels in Faisalabad city (Pakistan). *J. Ethnopharmacol.*, (Netherlands) 97:241–246.

2006

- Jabbar, A., Z. Iqbal, D. Kerboeuf, G. Muhammad, M.N. Nisar and M. Afaq, 2006. Anthelmintic Resistance: the state of play Revisited. *Life Sci*, (Accepted, Copy right transferred).
- M. Hassan, G. Muhammad, C. Gutierrez, Z. Iqbal, A. Shakoor, and A. Jabbar, 2006. Prevalence of *Trypanosoma evansi* infection in equines and camels in the Punjab region, Pakistan. *Ann. N. Y. Acad. Sci.* xxx: 1-3.
- Muhammad, G. and M. Saqib, 2006. Successful treatment of ocular equine microfilariasis (setaria species) with ivermectin. *Vet. Rec.* (UK) 159, xxx –xxx.
- Muhammad, G., A. Jabbar, Z. Iqbal, M. Athar, and M. Saqib, 2006. A Preliminary passive surveillance of clinical diseaseS profiles of cart pulling camels in Faisalabad metropolis (Pakistan). *Prevent. Vet. Med.* 76:273-279.
- Muhammad, G., M. Saqib, and M. Athar, 2006. Fatal Actinobacillosis in a Dairy Buffalo. *Acta Vetrinaria Brno* 75: 213-216.
- Muhammad, G., M. Saqib, M. S. Sohail, and A. Naureen, 2006. A preliminary report on *Trypanosome evansi* infection in charming Himalayan bears. *J. Zoo & Wildlife Med.* (USA) (conditionally accepted).
- Sajid, M. S., Z. Iqbal, G. Muhammad and U. Iqbal, 2006. Immunomodulatory effect of various antiparasitic – a review. *Parasitol* (Cambridge) 132, 1–13.

National

- Bachaya, H.A., Z. Iqbal, G. Muhammad, A. Yousaf, and H. M. Ali, 2005. Subclinical mastitis in buffaloes in Attock district of Punjab (Pakistan). *Pak. Vet. J.*, 25:134–136.
- Iqbal, M. U., Q. Bilal, G. Muhammad, M. S. Sajid, 2005. Absorption, availability, metabolism and excretion of phosphorus in ruminants. *Int. J. Agric. & Biol.*, 7:689–693.
- Iqbal, Z., M. Lateef, M.N. Khan, G. Muhammad, and A. Jabbar, 2005. Temporal density of Trichostrongylid larvae on a communal pasture in sub-tropical region of Pakistan. *Pak. Vet. J.*, 25:87–91.
- Khan, A. Z. and G. Muhammad, 2005. Quarter-wise comparative prevalence of mastitis in buffaloes and crossbred cows. *Pak. Vet. J.*, 25:9-12
- Muhammad, S.A., A.A. Farooq, M.S. Akhtar, G. Muhammad, and A. Shakoor, 2005. Surgical rectification of thread associated glossoptosis in brown potriges. *Pak. Vet. J.*, 25:43-44.
- Sajjad-ur-Rehman, M. Athar, A. Shakoor, G. Muhammad, and A.A. Butt, 2005. Standardization of indirect haemagglutination test for titration of antibodies against *Staphylococcus aureus*, *Streptococcus agalactiae* and *Escherichia coli* isolated from bubaline mastitis. *Int. J. Agric. & Biol.*, 7:441–444.
- Uallah, S., T. Ahmad, M.Q. Bilal, Zia-ur-Rehman, G. Muhammad, and S.U. Rehman, 2005. The Effect of severity of mastitis on protein and fat contents of buffalo milk. *Pak. Vet. J.*, 25:1-4.

2006

- Shakoor, M. Athar, G. Muhammad, S. U. Rehman, A. A. Butt, I. Hussain and R. Ahmad, 2006. Experimental trials of live attenuated and inactivated *Staphylococcus aureus* vaccines in rabbits. Pak. Vet. J., 26(2): 51–54.
- Shakoor, M. Athar, G. Muhammad, S. U. Rehman, A. A. Butt, I. Hussain and R. Ahmad, 2006. Effect of different *Staphylococcus aureus* mastitis vaccines on the milk yield, fat, protein and somatic cell count in buffalo. Pak. Vet. J., 26(4):67–72.

Department of Animal Breeding and Genetics

Foreign

2006

- A. Bhatti, M. S. Khan, A. U. Hyder and F. Hassan. 2006. Selection of Sahiwal cattle bulls on pedigree and progeny. Asian Aust. J. Anim. Sci. 19 (accepted AJAS ED # 05-514).
- Ali, M. S. Khan, S. A. Bhatti and I.R. Bajwa. 2006. Performance of Beetal Goats in Pakistan. III: Genetic Parameters of Various Growth Traits. Asian-Aust. J. Anim. Sci. 19 (accepted AJAS ED # 05-653).
- Ali, M. S. Khan, S. A. Bhatti, A. U. Hyder. 2006. Performance of Beetal Goats in Pakistan IV: Genetic Parameters of Various Reproductive Traits. Asian-Aust. J. Anim. Sci. 19 (accepted AJAS ED # 05-654).
- Ali, M.S. Khan, S. A. Bhatti and A. Iqbal. 2006. Performance of Beetal Goats in Pakistan I: Environmental Factors Affecting Growth Traits. Asian-Aust. J. Anim. Sci. 19 (accepted AJAS ED # 05-651).
- Ali, M.S. Khan, S.A. Bhatti and M.S. Rehman. 2006. Performance of Beetal Goats in Pakistan II: Environmental Factors Affecting Reproductive Traits. Asian-Aust. J. Anim. Sci. 19 (accepted AJAS ED # 05-652).
- M. Ajmal Khan, M. Sarwar, M. Nisa, M.S. Khan, S. A. Bhatti, Z. Iqbal, W. S. Lee, H. J. Lee, H. S. Kim and K.S. Ki. 2006. Feeding Value of Urea Treated Wheat Straw Ensiled with or without Acidified Molasses in Nili-Ravi Buffaloes. Asian-Aust. J. Anim. Sci. 19 (5):645-650.
- M. Ajmal Khan, M. Sarwar, M. Nisa, Z. Iqbal, M.S. Khan, W.S. Lee, H. J. Lee and H. S. Kim. 2006. Chemical Composition, In Situ Digestion Kinetics and Feeding Value of Oat Grass (*Avena sativa*) Ensiled with Molasses for Nili-Ravi Buffaloes. Asian-Aust. J. Anim. Sci. 19 (8):1127-1133.
- M. Ajmal Khan, Z. Iqbal, M. Sarwar, M. Nisa, M.S. Khan, W.S. Lee, H. J. Lee and H. S. Kim. 2006. Urea Treated Corncobs Ensiled with or without Additives for Buffaloes: Ruminant Characteristics, Digestibility and Nitrogen Metabolism. Asian-Aust. J. Anim. Sci. 19 (5):705-712.
- Z. Rehman, M. S. Khan, J. Iqbal and A. Iqbal. 2006. Sahiwal cattle in Pakistan. II. Genetic parameters and genetic trends. Asian-Aust. J. Anim. Sci. 19 (accepted AJAS ED # 05-656).
- Z. Rehman, M. S. Khan, J. Iqbal and A. Iqbal. 2006. Sahiwal cattle in Pakistan I. Non-genetic factors affecting performance traits. Asian-Aust. J. Anim. Sci. 19 (accepted AJAS ED # 05-655).

Local

- M. S. Khan, A. U. Hyder, I. R. Bajwa, M. S. Rehman and F. Hassan. 2005. Prediction of lactation yield from last-record day and average daily yield in Nili-Ravi buffaloes. Pakistan Vet. J. 25(4):175-178.

Paper presented or published at international conferences

- M. S. Khan. 2006. Animal genetic Resources of South Asia. Paper presented at ILRI-SLU training course for university teachers and researchers from South Asia. (Feb. 13-March 3, 2006). Kandy, Sri-Lanka.
- M. S. Khan. 2006. Unique genetic resources of Pakistan. International Conference on 'Livestock biodiversity indigenous knowledge and intellectual property rights' Bellagio Study and Conference Center, Rockefeller Foundation, Bellagio, Italy (March 27 to April 2, 2006).

Paper presented or published at national conferences

2005

- M. S. Khan and F. Hassan. 2005. Performance recording of young bulls (urdu). Paper presented at EU training workshop on selection and management of young breeding bulls (Sep 26 to Oct 1st, 2005). Semen Production Unit, Qadirabad Distt. Sahiwal.
- M. S. Khan, M. S. Rehman and I. R. Bajwa. 2005. Statistical designs and data analysis. Higher Education Commission Staff Development Course II) at University of Agriculture Faisalabad (July 11- August 6, 2005).
- M. S. Khan, M. S. Rehman and I. R. Bajwa. 2005. Statistical designs and data analysis. Higher Education Commission Staff Development Course III) at University of Agriculture Faisalabad (Sept 5-15, 2005).
- M. S. Khan. 2005. 'Sadi Sahiwal Gaan'. A Punjabi talk at Sahiwal cattle show at Allahdad, Jahanian (November 29, 2005) organized by Research Center for Conservation of Sahiwal cattle, Jhang.
- M. S. Khan. 2005. Breeding better Sahiwal. Paper presented at Workshop on Formulating the Strategy for Scientific Breed Improvement. Livestock and Dairy Development Department, Government of Punjab Lahore (December 9, 2005).
- M. S. Khan. 2005. Internet search and commonly used computer packages. Research Orientation Program (III Course). Organized by Directorate of Academics, University of Agriculture, Faisalabad (August 8-20, 2005).
- M. S. Khan. 2005. Writing Research Synopsis. Workshop on Scientific Presentation. Organized by Directorate of Academics, University of Agriculture, Faisalabad (July 25-30, 2005).

Department of Poultry Science

Foreign

2005

- Haq, A. 2005. Influence of varying sources of dietary electrolytes on the performance of broilers reared in a high temperature environment. *Animal Feed Science Technology* 120 (3-4):277-298

2006

- Mahmood, S., M.A. Khan, M. Sarwar and M. Nisa. 2006. Chemical treatments to reduce antinutritional factors in salseed (*Shorea robusta*) Meat: Effect on nutrient digestibility in colostomized pullets and intact broilers. *Poultry Science*. (PS-06-00127), accepted for publication.

Local

2005

- Haq, A. 2005. Effect of Chatomium thermophile supplementation on the performance of White Leghorn layers. *Pak, J. Lif Soc. Sci.* Vol. No. 3 No. (1-2):10-12.
- Haq, A. 2005. Immunity against coccidiosis in poultry-a review. *International journal of Poultry Science* 4 (10):812-817.
- Mahmood, S., S. Hassan, F. Ahmad, M. Ashraf, M. Alam and A. Muzaffar. 2005. Influence of feed withdrawal for different durations on the performance of broilers in summer. *Int. J. Agri. Biol.* 7:975-978.

2006

- Ahmad, F., S. Mahmood, Z., Rehman, M. Ashraf, M. Aslam and A. Musaffar. 2006. Effect of feeding management on energy, protein intake and carcass characteristics of broilers during summer. *Int. J. Agri. Biol.* 8(4):546-549.
- Ahmad, F., S. Mahmood, Z., Rehman, M. Ashraf, M. Aslam and A. Musaffar. 2006. Effect of feeding management o thermoregulation, production performance and immunological response of broilers during summer. *Int. J. Agri. Biol.* 8(4):550-553.

Papers presented or published at national conferences:

2005

- Mahmood, S. and Hassan Ali. 2005. effect of dietary sorghum tannins on the growth performance, egg production and egg quality of caged layers. Proc. 8th National Congress, published in the Vet. News and Views. Vol. 8 No.25, Feb. 24-28. 2005.
- Mahmood, S., A.M. Yousaf, F. Ahmad and M. Ashraf. 2005. effect of quantitative feed restriction on growth and immune response in broilers. Proc. 8th National Congress, published in the Vet. News and Views. Vol. 8 No.25, Feb. 24-28. 2005.

2006

- M. Yousaf. 2006. Comparison of different hatchery disinfectants on hatchery performance. 34th all Pakistan International SAARC Countries Science Conference at UVAS, Lahore (February 20-22, 2006).
- M. Yousaf. 2006. Effect of varying levels of cholcalciferol on feed efficiency and carcass characteristics of broiler chicks. 34th all Pakistan International SAARC Countries Science Conference at UVAS, Lahore (February 20-22, 2006).

Department of Livestock Management

Foreign

2006

- Raziq, A., M. Younas, and M.Q. Bilal. 2006. Milk production potential of Pakistani camel. A paper submitted in May 2006 to Livestock Production Sci. of Elsevier Editorial System. Elsevier, Amsterdam, The Netherlands. (ISSN 0301 6226).
- Raziq, A, M. Younas, and M. Q. Bilal. 2006. Milk Production Potential of Pakistani Camel. Paper submitted to Indian J. of Camel practice and Research, India.
- Raziq, A, M. Younas, and M. Q. Bilal. 2006. Milk Production Potential of Pakistani Camel. Paper accepted in Indian J. of Camel Practice & Research, India.

Local

2005

- Ahmad, T, M.Q. Bilal, S. Ullah and G. Muhammad, 2005. Effect of severity of mastitis on pH and specific gravity of buffalo milk. Pak. J. Agri. Sci. 42(3-4):64-67
- Avais, M. M. Q. Bilal, A. Shahzad and S. Hameed, 2005. Prevalence of gastrointestinal parasites in buffaloes and cows under different feeding systems. 14th Asian CVA Conference, 21-23 September, Lahore, Pakistan
- Bilal, M.Q, A.A. Mohamud, M. Younas, G. Muhammad, M. Yaqoob, and K. Ishaq. 2005. Effect of post-milking teat dipping and *Staphylococcus aureus* vaccination on quarter based severity of Mastitis in Sahiwal cows Sci. International (Lahore) 17(3) 2005, 259-262.
- Ishaq, K. M.Q. Bilal, M. Yaqoob and M. Younas, 2005. Effect of Superphosphate supplementation on dry matter digestibility and blood serum in Sahiwal calves. Sci. Int. (Lahore) 17 (2): 1- 4
- Ishaq, K., M.Q. Bilal, M. Yaqoob, and M. Younas. 2005. Effect of superphosphate supplementation on dry matter digestibility and blood serum in Sahiwal calves. Sci. International (Lahore), 17(2) 2005, 163-166
- M. Umair Iqbal, M.Q. Bilal, Ghulam Muhammad and Muhammad Sohail Sajid. 2005. Absorption, Availability, Metabolism and Excretion of Phosphorus in Ruminants, Int. J. Agri. Biol. 7(4): 689-693.
- M. Yaqoob, B.G. Merrell, M.Q. Bilal, and M. Younas, 2005. Comparison of three terminal sire breeds for the growth rate of lambs kept under upland grassland condition in northeast of England. Int. J. Agri. Biol., 7(3):410-413
- Raziq. A., M. Younas, and T.N. Pasha. 2005. Bioavailability of phosphorus in commercially available phosphate sources in broiler chickens. Sci. International (Lahore) 17(3) 2005, 233-236.

- Sajid, M.S., M.U. Iqbal, M.H. Hussain and M.Q. Bilal., 2005. Importance of Goat milk and meat for humans. *Sci. Int.(Lahore)*, 17(4):321-323
- Ullah, S., T. Ahmad, M. Q. Bilal, G. Muhammad, 2005. The effect of severity of mastitis on protein and fat contents of buffalo milk. *Pak. Vet. J.*, 25(1): 1- 4
- Yaqoob, M., B.G. Merrell, M.Q. Bilal, and M. Younas. 2005. Comparison of three terminal sire breeds for growth rate of lambs kept under upland grassland conditions in the northeast of England *Int. J. Agri. and Biol.* 7(3) 2005 410-413.
- Younas, M. and M. Yaqoob. 2005. Feed resources of livestock in the Punjab, Pakistan. *Livestock Research for Rural Development*. Vol. 17/2, 2005 Art # 18
- Younas, M. and M. Yaqoob. *Livestock/Dairy Sector in Pakistan - Quick Facts*. Monthly, AVN 17(3) June 2005 12-13

Papers presented or published at International conferences

2005

- Iqbal, A., J. Akbar, M. Abdullah and M. Sarwar. 2005. Milk production and composition as affected by feeding supplemental fat in Sahiwal cattle. (Abstract). European Association of Animal Production (EAAP). Annual Meeting , Uppsala, 5-8 June.
- Iqbal, A., P.A. Sheehy and P.C Wynn. 2005. The camel as a dairy animal: Is there commercial potential for Australia
- Iqbal, A. 2005. A study on milk production potential of Pakistani camel (*Camelus dromedaries*) kept under dry land conditions. (Abstract). 8th International conference on Dry lands Development-Sustainable Development of Dry lands, Beijing 25-28, February.
- Younas, M. and A. Raziq. 2005. Camel performance in Cholistan desert rangelands. Paper submitted to *J. of Rangeland Ecology and Management*, USA.
- Younas, M. and A. Raziq. 2005. Camel performance in Cholistan desert rangelands. Paper submitted *Indian J. of Camel Prod. and Research* in March 2006.

2006

- Akhtar, P., A. Hussain, S. Ali, and M. Younas. 2006. Genetic factors influencing different body weights of Thalli Sheep in Pakistan. A paper presented at 2006 Joint ADSA-ASAS Annual Meeting, Minneapolis, Minnesota, July 9-13, 2006. Vol. (84):Suppli 1. pp:445-446. (Abstr.).
- Hussain, A., P. Akhtar, S. Ali and M. Younas. 2006. Estimation of Breeding Values of different body weights of Thalli Sheep in Pakistan. A paper submitted to Joint ADSA-ASAS Annual Meeting 2006 to be held at Minneapolis, MS, USA (Abstr.).
- Raziq, A. and M. Younas. 2006. Crimean-Congo Haemorrhagic Fever in Balochistan. Submitted for publication, under preparation.
- Raziq, A. and M. Younas. 2006. Socioeconomic profile of camel in Kohlu district of Balochistan. First Conf of the ISOCARD held at Rotana Hotel, Al Ain, UAE on April 15-17, 2006, Abstr. # 126, pp:170.
- Raziq, A. and M. Younas. 2006. White Camels of Balochistan. Abstract submitted to ISOCARD Conf at Al-Ain UAE (April 16-18, 2006).
- Raziq, A. and M. Younas. 2006. White Camels of Balochistan. Paper submitted to *Sci International Lahore. Pakistan*
- Raziq, A. and M. Younas. 2006. White Camels of Balochistan. First Conf of the ISOCARD at Rotana Hotel, Al Ain, UAE held on April 15-17, 2006, Abstr. # 76, pp:117.
- Raziq, A. and M. Younas. 2006. White Camels of Balochistan. *Sci International Lahore*. 18(1):51-52.
- Younas, M. and A Raziq. 2006. Socio-economic profile of camel in Kohlu District of Balochistan. A paper presented orally in first conference of the International Society of Camelids Research and Development (ISOCARD) at Al-Ain, United Arab Emirate (UAE) held on April 16-18, 2006.
- Younas, M. and A. Raziq. 2006. Camel performance in Cholistan desert rangelands. Abstract submitted to ISOCARD Conf at Al-Ain UAE (April 16-18, 2006).
- Younas, M. and A. Raziq. 2006. Camel performance in Cholistan desert rangelands. Paper accepted in *Indian J. of Camel Practice and Research* in March 2006.

Papers presented or published at national conferences

2005

- M.Q. Bilal, M.S. Sajid, M. U. Iqbal and M. Yaqoob. 2005. Influence of deworming on the growth rate and milk production in dairy animals. 1st Kashmir International Science Conference, 20-21 September, 2005, P:66
- M.Q. Bilal, M.S. Sajid, M. Yaqoob and M.U. Iqbal. 2005. Worm load and chemotherapeutic control of helminthes of large ruminants. 1st Kashmir International Science Conference, 20-21 September, 2005, P:66
- Riaz, M., M. Younas, S.H. Raza, and K.Z. Gondal. 2005. Effect of training of goats to non-conventional feed on their subsequent performance. *Internal. J. Agri. and Biol.* 17(4):649-652.
- S. Ullah, T. Ahmad, M. Q. Bilal, M. Yaqoob, G. Muhammad and S.U. Rahman, 2005. Effect of mastitis on milk composition in buffaloes under field conditions, 4th Int. IDF Mastitis Conference, June 1-15, Maastricht Netherlands.
- Younas, M. and A. Raziq. 2005. Camel performance in Cholistan desert rangelands. Abstract submitted to 34th All Pak Sci Conference to be held at UVAS, Lahore.

2006

- Akhtar, P., A. Hussain, S. Ali, and M. Younas. 2006. Genetic factors influencing different body weights of Thalli Sheep in Pakistan. A paper presented at 2006 Joint ADSA-ASAS Annual Meeting, Minneapolis, Minnesota, July 9-13, 2006. Vol. (84):Suppli 1. pp:445-446. (Abstr.).
- Hussain, A., P. Akhtar, S. Ali, and M. Younas. 2006. Estimation of Breeding Values of different body weights of Thalli Sheep in Pakistan. A paper presented at 2006 Joint ADSA-ASAS Annual Meeting, Minneapolis, Minnesota, July 9-13, 2006. Vol. (84):Suppli 1. pp:446. (Abstr.).
- M.Q. Bilal and M. Suleman. 2006. Chemical composition of Mott grass as affected by advancement in stage of maturity. 34th Pakistan (SAARC) countries conference. Lahore, Pakistan
- M.Q. Bilal and M. Suleman. 2006. Effect of additives and fermentation period on Mott grass silage. 34th Pakistan (SAARC) countries conference. Lahore, Pakistan
- Raziq, A. and M. Younas. 2006. White Camels of Balochistan. Abstract submitted to 34th All Pak Sci Conference to be held at UVAS, Lahore.
- Raziq, A. and M. Younas. 2006. White Camels of Balochistan. Abstract submitted to ISOCARD Conf at Al-Ain UAE (April 16-18, 2006)
- Raziq, A., M. Younas, and M. Q. Bilal. 2006. Milk Production Potential of Pakistani Camel. Abstract submitted to 34th All Pak Sci Conference to be held at UVAS, Lahore.
- Raziq, A., M. Younas, and M.Q. Bilal. 2006. Milk production potential of Pakistani camel. A paper submitted in May 2006 to *Livestock Production Sci.* of Elsevier Editorial System, Switzerland.
- S. Ullah, T. Ahmad, Bilal, M. Q. and G. Muhammad. 2006. Influence of Mastitis severity on mineral contents of buffalo milk. 34th Pakistan (SAARC) countries conference. Lahore, Pakistan
- Samrina A and M Younas. 2006. Gender involvement in Livestock Management and production activities in peri-urban areas of Faisalabad. Abstract submitted to 34th All Pak Sci Conference to be held at UVAS, Lahore.
- Samrina A and M Younas. 2006. Management profile and contribution in livestock poverty alleviation and nutritional improvement in peri-urban areas of Faisalabad. Abstract submitted to 34th All Pak Sci Conference to be held at UVAS, Lahore.
- Samrina A and M Younas. 2006. Role of woman in Livestock Production. Abstract submitted to 34th All Pak Sci Conference to be held at UVAS, Lahore.
- Younas and Raziq: 2006. Community awareness programs for efficient calf rearing. Submitted to NARC, for Dev of Strategies for Calf Production in Pakistan, to be held in mid June 2006 at NARC, Park Rd, Islamabad.
- Younas, M. 2006. Camel An Animal of 21st Century. Sectional President address at 34th All Pak SAARC Sci Conf being held at UVAS, Lahore held on Feb 20-22, 2006.
- Younas, M. 2006. Camel --An Animal of 21st Century. Presidential Address sent on Feb 1, 2006 for 34th All Pak Sci Conf to be held on Feb 20-22, 2006, at UVAS, Lahore.
- Younas, M. and A. Raziq. 2006. Camel performance in Cholistan desert rangelands. Abstract submitted to ISOCARD Conf at Al-Ain UAE (April 16-18, 2006).

Younas, M. and A. Raziq. 2006. White Camels of Balochistan. *Sci International (Lahore)* 18(1):51-52.

FACULTY OF SCIENCES

Department of Botany

2005

- Ashraf, M. and A. Iram. 2005. Drought stress induced changes in some organic substances in nodules and other plant parts of two potential legumes differing in salt tolerance. *Flora*, 106: 535-546.
- Ashraf, M. and M. Arfan. 2005. Gas exchange characteristics and water relations in two cultivars of *Hibiscus esculentus* under waterlogging. *Biologia Plantarum* 49 (3): 459-462.
- Ashraf, M. and M.R. Foolad. 2005. Pre-sowing seed treatment – a shotgun approach to improve germination, plant growth and crop yield under saline and non-saline conditions. *Adv. Agron.*, 88: 223-271.
- Ashraf, M., M. Shahbaz, and T. McNeilly. 2005. Phylogenetic relationship of salt tolerance in early Green Revolution CIMMYT wheats. *Environ. Exp. Bot.*, 53: 173-184.
- Ashraf, M., Q. Ali, and E.S. Rha. 2005. The effect of applied nitrogen on the growth and nutrient concentration of Kalonji (*Nigella sativa*). *Aust. J. Exp. Agri.*, 45: 459-463.
- Iqbal, M. and M. Ashraf. 2005. Changes in growth, photosynthetic capacity and ionic relations in spring wheat (*Triticum aestivum* L.) due to pre-sowing seed treatment with polyamines. *Plant Growth Regul.*, 46: 19-30.
- Wahid, A. and A. Shabbir. 2005. Induction of heat stress tolerance in barley seedlings by pre-sowing seed treatment with glycinebetaine. *Plant Growth Regul.*, 46: 133-141.

2006

- Farooq, M., S.M.A. Basra, A. Wahid and M.B. Khan. 2006. Seed invigoration by hormonal and vitamin priming. *Seed Sci. Technol.*, 34: 775-780.
- Wahid, A. and A. Ghazanfar. 2006. Possible involvement of some secondary metabolites in salt tolerance of sugarcane. *J. Plant Physiol.*, 163: 723-730.
- Walia, H., C. Wilson, A. Wahid, P. Condamine, X. Cui and T.J. Close. 2006. Expression analysis of barley (*Hordeum vulgare* L.) during salinity stress. *Funct. Integr. Genomics*, 6: 143-156.

Papers presented/published at international conferences

2005

- Ashraf, M. International Conference on “Biosaline Agriculture and High Salinity Tolerance” held at the Mugla University, Mugla-Turkey, during 9-14 January, 2005.
- Makhdam, M. I., Pervez, H., Ashraf, M. and Shahab-ud-Din. 2005. Deterioration of Soil Health due to Addition of Muriate of Potash (MOP) Fertilizer under an Arid Environment. In: Proceedings of the First International Conference on Environmentally Sustainable Development. Held by Department of Environmental Sciences, COMSATS Institute of Information Technology, Abbotabad-Pakistan, During 26-28 June-2005. Volume III. pp. 1415-1421.

Department of Chemistry

Foreign

2006

- Anwar, F., Bhangar, M.I., Iqbal, S. and Sultana, B., 2006. Fatty acid composition of some margarines and butter samples with special emphasis to *trans*-unsaturated contents, *Journal of Food Quality*, 29, 87-96.
- Anwar, F., Hussain, A.I., Ashraf, M. and Iqbal, S. Effect of salinity on yield and quality of *Moringa oleifera* seed oil. *Grasas Y Aceites*. Manuscript No. 031806 (Accepted).

- Anwar, F., Jamil, A., Iqbal, S., and Sheikh, M.A. 2006. Antioxidant activity of various plant extract under ambient and accelerated storage of sunflower oil. *Grasas Y Aceites*, Spain. Manuscript No. 083304 (Accepted).
- Anwar, F., Latif, S., Ashraf, M. and Gilani, A. H., *Moringa oleifera*: a Food Plant with Multiple Bio-chemical and Medicinal Uses *Phytotherapy Research*, Manuscript No. PTR 06 563 (Accepted).
- Anwar, F., M. Manzoor, T.Iqbal and M.I.Bhanger. Analytical characterization of *Moringa concanensis* seed oil from Pakistan. *J Am Oil Chem Soc.* Manuscript No J1 1308 (Submitted).
- Anwar, F., Siddiq, A., Iqbal, S. and Asi, M. R., Stabilization of sunflower oil with *Moringa oleifera* leaves under ambient storage, *Journal of Food Lipids.* (Accepted).
- Anwar, F., Zafar, S.N. and Rashid, U., Characterization of *Moringa oleifera* seed oil from drought and irrigated regions of Punjab, Pakistan. *Grasas Y Aceites*, Manuscript No. 052105. (Accepted).
- Anwer, T., Bhanger, M.I., Anwar,F., Khan,M., Shahid, R., and Iqbal, S., (2006), A comparative characterization of different non-conventional oilseeds found in Pakistan, Pakistan, *J. Chem. Soc. of Pak.*, 28(2), 144-148.
- Asgher, M., M. J. Asad, H. N. Bhatti, R.L. Legge. 2006. Hyperactivation and Thermostabilization of *Phanerochaete chrysosporium* lignin peroxidase by immobilization in xerogels. *World J. Microbiology and Biotechnology.* Published on line. DOI: 10.1007/s11274-006-9255-9.
- Asgher, M., M. J. Asad, S.U. Rahman and R.L. Legge.2006. A thermostable α -amylase from a moderately thermophilic *Bacillus subtilis* JS-2004 for starch processing. *J. Food Engineering*, Published online on 29 March, 2006.
- Asgher, M., M.J. Asad and R.L. Legge. 2006. Enhanced lignin peroxidase synthesis by *Phanerochaete Chrysosporium* in solid state bioprocessing of a lignocellulosic substrate. *World J. Microbiol. Biotechnol.* 22(3): 449-453.
- Asgher, M., S.A.H. Shah, M. Ali and R.L. Legge. 2006. Decolourization of some reactive textile dyes by white rot fungi isolated in Pakistan. *World J. Microbiol. Biotechnol.* 22(1):89-93.
- Bhatti, H. N., M. Asgher, A. Abbas, R. Nawaz and M.A. Sheikh. 2006. Studies on Kinetics and Thermostability of Novel Acid Invertase from *Fusarium solani* . *J. Agric. Food. Chem.*, 54 : 4617-4623.
- Bhatti, H. N., M. Asgher, A. Abbas, R. Nawaz and M.A. Sheikh.2006.Studies on kinetics and thermostability of a novel acid invertase from *Fusarium solani*. *J. Agricultural and Food Chemistry*, 54(13):4617-4623.
- Bhatti, H. N., M. H. Rashid, R. Nawaz , A. M. Khalid, M. Asgher, A. Jabbar.2006. Effect of aniline coupling on kinetic and thermodynamic properties of *Fusarium solani* glucoamylase. *Applied Microbiology and Biotechnology.* Published online. DOI:10.1007/s00253-006-0597-x..
- Bhatti, H.N., A. Najma, M. Asgher, M.A. Hanif and M.A. Zia. 2006. Purification and thermal characterization of a novel peroxidase from a local chick pea cultivar. *Protein Peptide Lett.*, 13(8) : 799-804.
- Bhatti, H.N., M. Asgher, M. Madeeha and N. Batool. 2006. Kinetics of thermal denaturation of glucose oxidase from *Aspergillus niger*. *Canadian Journal of Microbiology*, 52:519-524.
- Bhatti, H.N., M. H. Rashid, R. Nawaz, M. Asgher, R. Perveen and A. Jabbar. 2006. Purification and characterization of a novel glucoamylase from *Fusarium solani*. *Food Chemistry*, Published on line. DOI:10.1016/j.foodchem.2006.07.058.
- Bhatti, H.N., M. Madeeha, M. Asghar. N. Batool. 2006. Purification and thermodynamic characterization of glucose oxidase from a newly isolated strain of *Aspergillus niger* Can. *J. Microbiol.*,52: 519-524.
- Bhatti, H.N., M.Asghar, A.Abbas, R.Nawaz and M.A.Sheikh. 2006. Studies on Kinetics and Thermostability of a Novel Acid Invertase from *Fusarium solani*. *J. Agri. Food Chem.* 54: 4617-4623.
- Bhatti, H.N., M.H.Rashid, R.Nawaz, M.Asghar, M.A.Sheikh, & A.M. Khalid. 2006. Effect of Aniline Coupling on Kinetic and Thermodynamic Properties of *Fusarium solani*. Glucoamylase. *Appl. Biochem. Biotechnology.* (Accepted)
- Chatha, S. A. S., Anwar, F. Manzoor, M. and J-R Bajwa. 2006. Evaluation of antioxidant activity of rice bran extracts by using different antioxidant assays” *Grasas Y Aceites*, 57 (3): 328-335.
- Hanif, M.A., R. Nadeem., H. N. Bhatti,* N. R. Ahmad and T. M. Ansari. 2006. Ni (II) biosorption by *Cassia fistula* (Golden Shower) biomass. *J.Hazard. Mater.* Published on Web doi: 1016 1/j.jhazmat.2006.06.040.
- Iqbal, M., M. Ashraf, A. Jamil and Shafiq-ur-Rehman. 2006. Does seed priming induce changes in the levels of some endogenous plant hormones in hexaploid wheat plants under salt stress? *Journal of Integrative Plant Biology.* 48 (2): 1-5.
- Iqbal, T., Kinjo M, Dowling TC. 2005. Determination of Rhodamine 123 in cell lysate by HPLC with visible wavelength detection. *J Chromatogr B* Jan 25; 814(2):259-262.

- Latif, F., M. Asghar, Rabia saleem, Ahmed Akrem & R.L. Legge. 2006. Purification and Characterization of a Xylanase Produced by *Chaetomium thermophile* NIBGE. World J. Microbiol. Biotechnol. 22(1):45-50.
- Rajoka, M.I., K. Rahman, M. Meraj, M.W. Akhtar and M.A. Zia. 2006. Purification and properties of bovine uricase. Protein and Peptide Letters. 13(4): 363-368.
- Rajoka, M.I., K. Rahman, T. Tabish and M.A. Zia. 2006. Purification and Characterization of caprine kidney uricase possessing novel kinetic and thermodynamic properties. World Journal of Microbiology and Biotechnology. 22:289-291.
- Snyder, C.J.P., M. Asghar, J.M. Scharer and R. L. Legge. 2006. Biodegradation kinetics of 2,4,6-trichlorophenol by an acclimated mixed microbial culture under aerobic conditions. Biodegradation, Published on line:DOI 10.1007/s10532-005-9024-8.

National

2005

- Anjum, F.A., I.Ahmad, M.S.Butt, M.A. Sheikh & I. Pasha. 2005. Amino acid composition of spring wheats and losses of lysine during chapatti baking. J. Food Composition & Analysis, 18:523-532.
- Arif, M., S. Kausar, M. Asghar, A. Arif and Y. Zafar. 2005. Genetic diversity among rice genotypes of Pakistan through Random Amplified Polymorphic DNA (RAPD) analysis. Pak. J. Bot. 37(3): 585-592.
- Bhatti, H.N., A. Zia, R. Nawaz, M.A. Sheikh, M.H. Rashid and A.M. Khalid. 2005. Effect of Copper Ions on Thermal Stability of Glucoamylase from *Fusarium* sp. Inter. J. Agri. and Biol. 7(4): 585-587.
- Bhatti, H.N., F.huma, R.Nawaz, M.A. Sheikh, M.H. Rashid and A.M. Khalid (2005). Partial purification and properties of Amyloglucosidase from *Fusarium solani*. Int. J. Biol. Biotech., 2(3): 577-582.

2006

- Ahmed, S., M.A. Riaz and M.Shahid. 2006. Response of *Microtermes obesi* (Isotera: Termitidae) and its gut bacteria towards some plants extracts. Journal of Food Agriculture and Environment, 4 (1): 317-320.
- Ali, S., R. Nadeem, H. N. Bhatti, S. Hayat and S.A.S. Chatta. 2006. Analyses and treatment of textile effluents. . Int. J. Agri. Biol., 8(5):641-644.
- Anjum, F., Anwar, F.,* Jamil, A. and Iqbal. M. 2006. Microwave roasting effects on the physiochemical composition and oxidative stability of sunflower seed oil. J. Am. Oil Chem. Soc., 83 (9), 777-784.
- Anwar, F., Bhangar, M.I., Latif, S. and Manzoor, M., Lipid content and fatty acid composition of some deep fried and fast foods from Pakistan, J. Chem. Soc. of Pak., Manuscript no: XV-090505-5286. (Accepted and In press).
- Anwar, F., Latif, S. and Ashraf. M. 2006. Analytical characterization of hemp (*Cannabis sativa*) seed oil from different agro-ecological zones of Pakistan, J. Am. Oil Chem. Soc., 83(4), 323-329.
- Bhatti, H.N., M.H.Rashid, R.Nawaz, M.Asghar, M.A.Sheikh, & A.M. Khalid (2006). Effect of Aniline Coupling on Kinetic and Thermodynamic Properties of *Fusarium solani*. Glucoamylase. Appl. Biochem. Biotechnology. (Accepted)
- Huma, N., S.Rehman, F.M. Anjum, M.A. Sheikh and M.A.Murtaza (2006). Food Fortification Strategy- Preventing Iron Defeciency Anemia: A Review. Critial Reviews in Food Science & Nutrition (Accepted).
- Hussain, A. I., F. Anwar, H. N. Bhatti and U. Rashid. 2006. Phytochemical and In vitro Anthelmintic Screening of *Butea frondosa* and *Swertia chirata* from Pakistan. J. Chem. Soc. Pak., 28 (1):84-92.
- Iqbal, S., Bhangar, M.I., Akhtar, M., Anwar, F., Ahmad, K.R., and Anwer, T., (2006). Antioxidant properties of methanolic extracts from leaves of *Rhazya stricta*, J. Medicinal Food, 9 (2), 270-275.
- Iqbal, S., Bhangar, M.I., Anwar, F., Zia-ul-Haq, M., Akhtar, M., Imran, M. Effect of rice bran extracts on fatty acid composition and stability of cookies at ambient aging. Int. J. Food Sci. Tech. Manuscript No. IJFST-2006-01070 (Accepted).
- Kamal, S., K. Rehman, M.A. Zia and B. Parvin. 2006. Standardization of direct ELISA for determination of *Staphylococcus aureus*. International Journal of Agriculture and Biology. 8(1): 70-72.

- Mubeen, F., A. Aslam, M.A.Sheikh, T. Iqbal, S.Hammed, K.A.Malik and F.Y.Hafeez (2006) Response of wheat yield under combined use of fungicides and biofertilizer. *International Journal of Agriculture and Biology*. 8(5): 580-582.
- Mubeen, F., Sohail Hameed, Asma Aslam, Munir A. Sheikh, Tahira Iqbal, K. A Malik and Fauzia Y. Hafeez. Yield effects of seed applied fungicide and microbial inoculants on wheat. *Pakistan journal of Agriculture research*. (Submitted)
- Rashid, U., H. N Bhatti, M.A Hanif and N R. Ahmad. 2006. Determination of metabolites of aspirin (salicylic acid) by colorimetric method in human urine. *PJBS*, 9(06):1004-1008.
- Shabaz, B., Farooq, A., M. Asgher and Hassan, K. 2005. Performance evaluation of exotic and indigenous neutral cellulolytic enzymes as denim stone wash substitute. *J. Chem. Soc. Pak*. 27(6):662-666.
- Shagufta, K., Khalil-ur-Rehman, M.AnjumZia and Bushra Parvin 2006. Standardization of Direct ELISA for determination of *Staphylococcus aureus*. *Int J. of Agri and Biol*.8 (1):70
- Tabassum, A., T. Iqbal, A.Ghaffar, N.Akhtar and M.Shahid (2005) Biodisposition of moxifloxacin in female volunteers following oral administration. *Pakistan Journal of Sciences*. 57(1-2):13-18.

Papers presented or published at national and international conferences

2005

- Ajaz Akhtar; Khalil-ur-Rahman and Muhammad Aslam, 2005. Sexual awareness and behaviour of adolescents working at truckers stops on Highways in Pakistan. Abstract published in APCRS 3rd Asia Pacific Conference on Reproductive and Sexual Health held at Sunway Pyramid Convention Centre, Petaling Jaya, Selangor Darul Ehsan, MALAYSIA on 17-21 November, 2005. Abstract No. PPI-38, Page 62.
- Ajaz Akhtar; Khalil-ur-Rahman and Muhammad Aslam, 2005. Sexual behaviour of sexually satisfied married men in Pakistan. Abstract published in APCRS 3rd Asia Pacific Conference on Reproductive and Sexual Health held at Sunway Pyramid Convention Centre, Petaling Jaya, Selangor Darul Ehsan, MALAYSIA on 17-21 November, 2005. Abstract No. OPI-25, Page 13.
- Ajaz Akhtar; Muhammad Aslam and Khalil-ur-Rahman, 2005. Discrimination and stigmatization: The barriers preventing drug users from harm education in Pakistan. Abstract Published in 16th International Conference on the Reduction of Drug Related Harm. Abstract No. 513, Page 205.
- Ajaz Akhtar; Muhammad Aslam and Khalil-ur-Rahman, 2005. Un-safe injection practices of drug addicts in Pakistan. Abstract Published in 16th International Conference on the Reduction of Drug Related Harm, held at Belfast, Northern Ireland. Abstract No. 514, Page 205-206. 20-24, March, 2005
- Fozia Marjan; Khalil-ur-Rahman; T.M. Chaudhry and M. Salahuddin. 2005. Development of hydropericardium vaccine from locally isolated viral strains. Abstract published and Poster presented in 18th FAOBMB Symposium on Genomics and Proteomics in Health and Agriculture hosted by Pakistan Society for Biochemistry and Molecular Biology, held at Lahore on November, 20-23, 2005. Abstract No. PD2-38, Page 209.
- Khalil-ur-Rahman. 2005. Pb and Cd as crucial environmental pollutants: their role in IHD and removal with natural chelation therapy. A lecture delivered on 27-03-05 at Serene Hotel, Faisalabad. Symposium-Unani Medicine: Challenges and future perspective.
- Madiha Hamid; M.A. Zia and Khalil-ur-Rahman 2005. Production and purification of mutarotase from *Aspergillus niger*. Abstract published and Poster presented in 18th FAOBMB Symposium on Genomics and Proteomics in Health and Agriculture hosted by Pakistan Society for Biochemistry and Molecular Biology, held at Lahore on November, 20-23, 2005. Abstract No. PD2-36, Page 207.
- Munir, B., T.Iqbal and M. Shahid (2005) Antibacterial activity of *Solanum nigrum* fruits extracts against *Streptococcus equi*. 18th FAOBMB Symposium. PD2-16 PP: 194-195. November 20-23, 2005 Lahore, Pakistan.
- Production, purification and thermal characterization of β -fructofuranosidase by a newly isolated *Fusarium* sp. under solid state fermentation.
- Shahid, M., B. Munir, T.Iqbal, M.Tayyab and Farah Naz. 2005. Antibacterial activity of medicinal plants, seeds extracts against gram positive bacteria. 8th Biennial National Conference of Pakistan Society for Biochemistry and Molecular Biology. 07-09 March, 2005. Karachi, Pakistan.
- Sumbal Sabeen; Khalil-ur-Rahman and M.A. Zia. 2005. Enzymes: Purity markers for Honey. Abstract

published and Poster presented in 18th FAOBMB Symposium on Genomics and Proteomics in Health and Agriculture hosted by Pakistan Society for Biochemistry and Molecular Biology, held at Lahore on November, 20-23, 2005. Abstract No. PD2-39, Page 209-210.

Zia, M.A; Rehman, K; Anjum, F; Sheikh, M.A and Khan, A.I. 2005. Gamma rays mutagenesis of *Aspergillus niger* for enhanced production of glucose oxidase. Abstract published in IUBMB Symposium 344, International Interdisciplinary Conference on Vitamins, Co-enzymes, and Biofactos, held at Awaji, Japan. Abstract No. L17M, Page 14, 6-11 Nov. 2005.

2006

Anwar, F. 2006. Practical Training and Lecture on GC and Chromatography in HEC Workshop entitled "Imparting Practical Training on Biochemical Techniques" Feb. 27 to March 4, 2006, Organized by Department of Chemistry and Botany, University of Agriculture, Faisalabad.

Asghar, M., H.N. Bhatti, M.J. Asad and R.L. Legge. 2006. Hyperactivation of *Phanerochaete chrysosporium* Lignin Peroxidase for utilization of agro-industrial waste biomass as renewable energy source (Oral Presentation). International Green Energy Conference, University of Ontario Institute of Technology, Oshawa, Ontario, Canada (June 25-29, 2006).

M. Asgher, M. J. Asad H.N. Bhatti, and R. Legge. 2006. Bioremediation of some reactive and disperse textile dyes by acclimated mixed microbial consortia (Poster Presentation). World Congress on Industrial Hyperactivation and thermostabilization of *Phanerochaete chrysosporium* lignin peroxidases by immobilization in xerogels.

Egyptian First International Conference in Chemistry held at Sharm El-Sheikh- Egypt, from 11-14 September 2006. Ontario, Canada (July 11-14, 2006).

F. Anwar*, Manzoor, M., Bhangar. M.I. and Iqbal. T. Analytical characterization of *Moringa concanensis* seed oil from Pakistan, Presented at World Conference and Exhibition on Oilseed and Vegetable Oil Utilization, August 14-16, 2006, Hilton Istanbul Convention and Exhibition Centre, Istanbul, Turkey. Abstract Book P.13

Fathia Mubeen, S. Hameed, A. Aslam, M.A. Sheikh, Tahira Iqbal, Kausar A. Malik and Fauzia Y. Hafeez. 2006. Yield effect of seed applied fungicides and microbial inoculant on wheat. In proceedings of International Wheat Seminar. February 20-21, 2006 at Ayub Agriculture Research Institute (AARI), Faisalabad. Abst. No.104. p.79.

Fathia Mubeen, S. Hameed, A. Aslam, M.A. Sheikh, Tahira Iqbal, Kausar A. Malik and Fauzia Y. Hafeez. 2006. Effect of crop protectants on nature's fertility partners. In proceedings of International Symposium on "Application of Plant Sciences in Emerging Scenario" March, 20-22, 2006, at GC University, Faisalabad. Abst. P. 82.

International Symposium on Application of Plant Sciences in Emerging Scenario, 20-22, March. 2006. Govt. College University, Faisalabad, Pakistan. Chemical composition, trypsin inhibitor activity and Biological evaluation of raw and processed chickpea CM 72 (*Cicer arietinum* L.) (Oral Presentation).

International Symposium on Application of Plant Sciences in Emerging Scenario, 20-22, March. 2006. Govt. College University, Faisalabad, Pakistan. Chemical composition, trypsin inhibitor activity and Biological evaluation of raw and processed chickpea CM 72 (*Cicer arietinum* L.)(Oral Presentation).

J.R. Bajwa., Anwar, F*, Chatha, S.A.S. and Manzoor, M. Antioxidant activity of wheat bran using different antioxidant assays and canola oil as oxidation substrate. 2006. Abstracted at 6th International & 16th National Chemistry Conference, April 6-8, 2006. Department of Chemistry, Bahauddin Zakariya University, Multan, Pakistan. Abstract Book P. 178.

Jamil, A., Lecture on "Chromatography" in HEC/UAAR workshop on plant molecular biology/biotechnology. January 30th to February 4th, 2006. Department of Biochemistry, University of Arid Agriculture, Rawalpindi.

Jamil, A., Lecture on "Recombinant DNA technology" in GC University, Faisalabad. June 7, 2006.

S.A.S. Chatha, Anwar, F*, Manzoor, M. and Bajwa, J.-R. Antioxidant activity of rice bran using different antioxidant assays and sunflower oil as oxidation substrate. (2006). Presented at 6th International & 16th National Chemistry Conference, April 6-8, 2006. Department of Chemistry, Bahauddin Zakariya University, Multan, Pakistan. Abstract Book P. 179.

Sultana, B., F.Anwar* and S. Iqbal. 2006. Effects of different cooking methods on the antioxidant activity of some selected vegetables. Presented at 9th Symposium on Analytical and Environmental Chemistry, July 24-26, 2006. Bara Gali, Campus, University of Peshawar, Bara Gali, Pakistan. Abstract Book P. 32.

The 2nd International Green Energy Conference held at University of Ontario Institute of technology Oshawa, Ontario, Canada, from June, 25-29, 2006.

XIXth International Symposium on Medicinal Chemistry, August 29 - September 02, 2006. Istanbul, Turkey. Plants Proteins/Peptides as Natural Antibiotics to Combat the Infectious and other Diseases.(oral presentation).

XIXth International Symposium on Medicinal Chemistry, August 29 - September 02, 2006. Istanbul, Turkey. Plants Proteins/Peptides as Natural Antibiotics to Combat the Infectious and other Diseases.(oral presentation).

Department of Mathematics and Statistics

National

Stability and Adaptability of Maize Genotypes in Pakistan by Sajid Rasul, Dr. M. I. Khan, M. Mohsin Javed and Ikram-ul-Haq. Journal of Applied Sciences Research 1(3):307-312, 2005

Department of Physics

International

2006

Amin N, Shaukat Mahmood, M Anwar-ul-Haq and M A Baig. Measurement of the 4d-Photoionization Cross Section via Two-photon and Two-step Excitation in Sodium. J. Quant. Spectrosc. Radiat. Transfer (Published on line) (2006)

Amin N, Shaukat Mahmood, M Anwar-ul-Haq, M Riaz and M A Baig. Measurement of the Photoionization Cross Section of the $3p\ ^2P_{1/2, 3/2}$ Excited Levels of Sodium European Physical Journal D 37 (2006) 23

Amin N, Shaukat Mahmood, M Saleem, M A Kalyar and M A Baig. Photoionization Cross Section Measurements from the 2p, 3d and 3s Excited States of Lithium. European Physical Journal D (in press) (2006)

Li W., P. J. Tanner, Y. Jamil and T. F. Gallagher. 2006. Ionization and Plasma formation in high n cold Rydberg atoms. European Physical Journal D. 40 (1):27

Mahmood S, N Amin, Sami-ul-Haq, Nek M Shaikh, Shahid Hussain and M A Baig. Measurements of Oscillator Strengths of the $2p\ ^5nd\ (^2P_{1/2})$ Rydberg Series in Neon. J. Phys.B: At. Mol. Opt. Phys. 39 (2006)2299

Muhammad Nadeema,, A. Mahmood, S.A. Shahid, S.S. Shah ,A.M. Khalid d, G. McKay .Sorption of lead from aqueous solution by chemically modified carbon.*Adsorbents Journal of Hazardous Materials xxx* (2006) xxx–xxx. Accepted 30 May 2006.Artical in Press.

Nek M. Sheikh, B. Rashid, S. Hafeez, Y. Jamil and M.A. Baig. 2006. Measurement of electron density and temperature of a laser-induced zinc plasma. J. Phys. D: Appl. Phys. 39: 1384-1391

Riaz M, M Anwar-ul-Haq, Shaukat Mahmood, N Amin and M A Baig. Three-photon resonance enhanced excitation Spectrum of atomic thallium. Optics Commun. (Published on line)(2006).

Saleem M, N Amin, S Hussain, M Rafiq, Shaukat Mahmood and M A Baig. Alternate technique for simultaneous measurement of photoionization cross secti of isotopes by TOF , mass spectrometer, Eur. Phys. J. D 38 (2006) 277

Sami ul Haq, Shaukat Mahmood, N Amin, Yasir Jamil, M Anwar ul Haq, R Ali and M A Baig. Measurement of the Photoionization Cross sections from the $5s5p\ ^1P_1$ and $5s6s\ ^1S_0$ excited states of strontium.J. Phys. B: Atom Mol Opt Phys 39(2006)1587

National

2005

Ahmad, S. M. R., M. Anwar, A. Hafiz and Y. Jamil. 2005. Synthesis of Fine Magnetic Particles. Indus Journal of Biological Sciences, 2 (3) : 391-396

- Sami Ullah, M. Nadeem, S.A. Shahid, S.A.S. Chatha, J.R. Bajwa, S. Ahmed and A.A.Qidwai. Study of corrosion inhibition of stainless steel-410 by thiourea and surfactants in presence of sulfuric acid. *Indus Journal of Biological Sciences*, 2 (4): 536-544, October 2005.
- Shaukat Ali Shahid, M. Rani, M.Z. Hanif, M.I. Shakir, A.A. Qidwai, M. Nadeem and Sami Ullah. Fabrication And Performance Study Of Solar Dehydrator Fitted With Glass Reflector. *Indus Journal of Biological Sciences*, 2 (4): 525-531, October 2005.
- Shaukat Ali Shahid, M. Sarfraz, M.Z. Hanif, M.I. Shakir, A.A. Qidwai, M. Nadeem and Sami Ullah. Comparative performance study of Single Acrylic Sheet covered and Double Glass Sheet Covered Dehydrator. *Indus Journal of Biological Sciences*, 2 (4): 549-555, October 2005.
- Shaukat Ali Shahid, M.Hassan, M.I. Shakir, A.A. Qidwai, M. Nadeem and Sami Ullah. Design, Construction and Performance Study of Electric Cum Solar Oven. *Indus Journal of Biological Sciences*, 2 (4): 508-514, October 2005.
- Shaukat Ali Shahid, M.Z. Hanif, M.I. Shakir, A.A. Qidwai, M. Nadeem and Sami Ullah. Fabrication and Performance Study of Portable Solar Food Oven. *Indus Journal of Biological Sciences*, 2 (4): 571-577, October 2005.

2006

- Ghaffar A. and Zia-ul-Haq. 2006. Design, Fabrication and performance study of Basin type solar still *Indus Journal of Biological science*, 3(2):712-716.
- Ghaffar A. and Zia-ul-Haq. 2006. Estimation Traffic Noise Levels in the selected areas of Gujranwala city and its effect on hearing loss of the inhabitants. (*Indus Journal of Biological science*, 3(2):739-746.
- Ghaffar A. and Zia-ul-Haq. Fabrication and performance study of solar chimney dehydrator (accepted for publication in *Indus Journal of Biological Sciences*)

Papers presented and or published at international conferences:

- Hafiz A. M R Ahmad and M. Anwar and Y. Jamil. 2006. Synthesis by Coprecipitation and Study of Manganese Ferrite Powder. Oral Presentation in 5th International Material Technology Conference and Exhibition, 17th to 20th July 2006, Malaysia.
- Yasir Jamil. 2006. Millimeter wave spectroscopy of cold ⁸⁵Rb atoms. Poster Presentation at the 37th Meeting of the Division of Atomic, Molecular and Optical Physics, American Physical Society, at Knoxville, TN, USA. May 2006 .

Department of Zoology and Fisheries

Local

2005

- Abbas, K. I. Ahmed M.H. Rehman. 2005. Growth performance as influenced by partial replacement of fish meal with plant protein in the diet of major carps. *Indus J. Biol. Sci.*, 2(2): 219-226.
- Abdullah, S. and M. Javed. 2005. Relationships of physico-chemical factors with fish yield in semi-intensive culture system. *I. J. Biol. Sci.* 2(2):265 – 271.
- Abdullah, S. and M. Javed. 2005. Studies on the growth performance of major carps under integrated semi-intensive culture system. *I. J. Biol. Sci.* 2(2):254– 259.
- Abdullah. S. and M. Javed. 2005. Relation of physico-chemical factors with fish yield in semi-intensive culture system. *I. J. Bio. Sci.* 2(2): 265-271.
- Abdullah. S. and M. Javed. 2005. Studies on the growth performance of major carps under integrated semi-intensive system. *I. J. Bio. Sci.* 2(2): 254-259.
- Ahmed, I., K. Abbas and M.H. Rehman. 2005. Growth response of major carps in semi-intensive ponds supplemented with rice polishing. *Pakistan Vet. J.*, 25(2): 59-62.
- Inayat, L. and M. Salim. 2005. Feed conversion ration of major carp, *Cirrhinus mrigala* fingerlings fed on soybean meal, maize and maize gluten. *Pakistan Vet. J.*, 25(1): 13-16.
- Javed, M. 2005. Growth response of *Catla catla*, *Labeo rohita*, and *Cirrhina mirrigala* for bio-accumulation of zinc during chronic exposure. *P.J.Bio.Sci.*, 8(10): 1357-1360.

- Javed, M. 2005. Heavy metal contamination of freshwater fish and bed sediments in the river Ravi stretch and related tributaries. P.J.Bio.Sci. 8(10): 1337-1341.
- Khan, R. R., M. Ashfaq and S. A. Rana. 2005. Some Studies on the toxicity of conventional and Chemical Insecticides Against *Bracon hebetor* (Say) (Hymenoptera: Braconidae) under laboratory conditions. Pak. Entomol., 27(1): 1-3.
- Mehmood, I., H. A. Khan and T. Siddique. 2005. Impact of Novastar on total protein concentration in rose-ringed parakeet under laboratory conditions. Indus J. Biol. Sci., 2(2): 227-230.
- Mukhtar, M. K. and S. Mushtaq. 2005. Spider of the genus *Cyclosa* (Araneae: Aranidae) from Punjab Pakistan. Pak. J. Zool. 37(3): 199-205.
- Mukhtar, M.K. and S. Mushtaq. 2005. Spider of the genus *Clubiona* (Aranidae: Clubeoidea) from Punjab Pakistan. Pak. J. Zool., 37(3): 169-174.
- Mushtaq, S. and M. K. Mukhtar. 2005. Control of insect pest in crops through spiders III. Daily Ghareeb, 57(24): 3.
- Nasir, M. and H.A. Khan. 2005. Interaction of some bird species as biodiversity indices in urban landscapes in Faisalabad. Submitted, Indus J. Biol. Sci., Papers / popular articles published:
- Rana, S.A., S. M. Smith and J. I. Siddiqui. 2005. Scat analysis of small Indian mongoose (*Herpestes auropunctatus*) feeding on fauna of some high and relatively low input crop fields of Faisalabad, Pakistan. (Submitted to Zoological Studies, Academica Sinica, Taipei, Taiwan).
- Rehman, M.H., I. Ahmed, K. Abbas and S. Tabassum. 2005. Effect of inorganic fertilizer, organic manure and their combination on the growth performance of major carps. Indus J. Biol. Sci., 2(2): 196-201.
- Saeed, M., M. Salim and U. Noreen. 2005. Study of growth performance and feed conversion ratio of *Labeo rohita* fingerlings fed on soybean meal and corn gluten 60% (test diets). (Submitted to G. C. Univ. Journal).
- Saleem, A., H. A. Khan, M. Saleem and G. Afzal. 2005. Significance of *Salmalia malabarica*, *Dalbergia sissoo* and *Syzygium cumini* as roosts and nests for rose-ringed parakeet in an agroecosystem. Submitted, Indus J. Biol. Sci., 2(3): 400-405.
- Saleem, M., H.A. Khan, G. Afzal, and A. Saleem. 2005. Fruit Trees as Food Indicators to Some Avian Pests in an agro-ecosystem in Faisalabad. Indus J. Biol. Sci., 2(3): 332-339.
- Salim, M., H. Khan, I. Aziz and K. Shahzad. 2005. Estimation of apparent digestibility coefficient (ADC) of cotton seed meal, meat meal and maize gluten (30%) for *Labeo rohita* (Submitted to Pakistan Vet. Journal).
- Siddiqui, M. J. I., S. A. Rana, A. Anjum and N. Rana. 2005. Biodiversity of insects in high and low input wheat (*Triticum Aestivum*) fields agroecosystems of Punjab. Pak. Entomol., 27(2):

INSTITUTE OF SOIL AND ENVIRONMENTAL SCIENCES

Foreign

2005

- Ghafoor, A., S.I. Hussain, S. Ahmad and M.S. Brar. 2005. Distribution of lead and chromium in soil and plants as affected by soil texture and amendments. J. Ind. Soc. Soil Sci., 53(3):382-389.
- Wakeel, A., T. Aziz, T. Aziz and A. Hassan. 2005. Growth and potassium uptake of maize (*Zea mays* L.) in three soils differing in clay contents. Emir. J. Agric. Sci. 17(1): 57-66.

2006

- Ahmad, W., Rahmatullah, M. A. Gill and T. Aziz. 2006. Bioavailability of inorganic phosphorus fractions in calcareous soils estimated by Neubauer technique, iron impregnated filter paper and chemical tests. Commun. in Soil Sci. & Plant Anal. 37: 1185-1193
- Basra, S.M.A., I. Afzal, S. Anwar, M.A.U. Haq and M. Shafiq and K. Majeed. 2006. Alleviation of salinity stress by seed Invigoration Techniques in wheat (*Triticum aestivum* L.). Seed Technology 28 (1): 36-46.
- Bhutta, W.M., A. Shahzad, J. Akhtar and M. Ibrahim. 2006. Assessment of genetic divergence among wheat (*Triticum aestivum* L.) genotypes using random amplified polymorphic DNA (RAPD) analysis. Biologia 60(6).

- Bhutta, W.M., J. Akhtar and A. Shahzad. 2006. Genetic variation between wheat (*Triticum aestivum*) genotypes as revealed by Random Amplified Polymorphic DNA (RAPD) markers. *South African J. Botany* 72: 280-283.
- Gill, M. A., Rahmatullah, M. Irfan and M. A. Maqsood. 2006. Requirement of Coarse and Fine Varieties of Rice. *J. Plant Nut.* (Accepted).
- Khalid, A., M. Arshad and Z.A. Zahir. 2006. Phytohormones: Microbial production and Application. In *Biological Approaches for Sustainable Soil System*. N. Uphoff (ed), CRC press. New York, USA
- Khalid, A., M.J. Akhtar, M.H. Mahmood and M. Arshad. 2006. Effect of substrates-dependent microbially produced ethylene on plant growth. *Microbiology (Mikrobiologiya)* 75: 231-236.
- Khan, A.U.H., M. Iqbal and K.R. Islam. 2006. Dairy manure and tillage effects on soil fertility and corn yields. *Bioresource Technology* (In press).
- Murtaza, G., A. Ghafoor and M. Qadir. 2006. Irrigation and soil management strategies for using saline-sodic water in cotton-wheat rotation. *Agri. Water. Manage.* 81(1-2):98-114.
- Qadir, M. B.R. Sharma, A. Bruggeman, R. Choukr-Allah, and F. Karajeh. 2006. Non-conventional water resources and opportunities for water augmentation to achieve food security in water scarce countries. *Agric. Water Manag.* (in press).
- Qadir, M., A.D. Noble, S. Schubert, R.J. Thomas, and A. Arslan. 2006. Sodicity – induced land degradation and its sustainable management: Problems and prospects. *Land Degrad. and Develop.* 17: 1-16.
- Rahmatullah, M. A. Gill, A. H. Wissemeyer and D. Steffens. 2006. Phosphate availability from phosphate rock as related to nitrogen form and the nitrification inhibitor DMPP. *J. Plant Nutr. Soil Sci.* 169: 1-4.
- Ryan, J., S. Masri, and M. Qadir. 2006. Nutrient monitoring of sewage water irrigation: impact for soil quality and crop nutrition. *Commun. in Soil Sci. & Plant Anal.* (in press).
- Shaharoon, B., M. Arshad and Z.A. Zahir. 2006. Effect of plant growth promoting rhizobacteria containing ACC-deaminase on maize (*Zea mays* L.) growth under axenic conditions and on nodulation of mung bean (*Vigna radiata*). *Letters in Applied Microb.* 42: 155-159.
- Shaharoon, B., M. Arshad, Z.A. Zahir and A. Khalid. 2006. Performance of *Pseudomonas* spp. containing ACC-deaminase for improving growth and yield of maize (*Zea mays* L.) in the presence of nitrogenous fertilizer. *Soil Biol. and Biochem.* 38: 2971-2975.
- Yaseen, M., M. Arshad and A. Khalid. 2006. Effect of acetylene and ethylene gases released from encapsulated calcium carbide on growth and yield of wheat and cotton. *Pedobiologia* (in press).
- Zia, M.H., A. Ghafoor, Saifullah and Th.M. Boers. 2006. Comparison of sulfuric acid generator and alternate amendments to improve the quality of saline-sodic water for sustainable rice yields. *Paddy Water Environ.* 4:153-162.

Local

2005

- Ashraf, M., Rahmatullah and M.A. Gill. 2005. Irrigation of crops with brackish water using organic amendments. *Pakistan. J. Agri. Sci.* 42: 33- 37.
- Aziz, T., Rahmatullah, M.A. Maqsood and T. Mansoor. 2005. Differences in phosphorus absorption, transport and utilization by twenty rice (*Oriza sativa* L.) cultivars. *Pak. J. Agric. Sci.* 42: 8-13.
- Gill, M.A., M. Sabir, Rahmatullah and Tariq Aziz. 2005. Effect of phosphorus stress on growth, phosphorus uptake and utilization efficiency of different cotton cultivars. *Pak. J. Agric. Sci.* 42(1-2): 42-47.
- Gill, M.A., M.A. Tahir, Rahmatullah, and A. Yousaf. 2005. Genotypic variation of chickpea (*Cicer arietinum* L.) grown under adequate and deficient K stress condition in hydroponics. *Pakistan. J. Agri. Sci.* 42: 22-26
- Iqbal, M., A. Hassan, A. Ali, M. Rizwanullah. 2005. Residual Effect of Tillage and Farm Manure on Some Soil Physical Properties and Growth of Wheat (*Triticum aestivum* L.). *Intl. J. Agric. Biol.* 7: 54-57.
- Iqbal, M., A. Hassan, M Rizwanullah and A. Ali. 2005. Nutrient (N, P and K) content in soil and plant as affected by the residual effect of tillage and farm manure. *Intl. J. Agric. Biol.* 7:50-53.
- Muqaddas, B., A.M. Ranjha, M. Abid and M. Iqbal. 2005. Soil physical properties as affected by tillage and farm manure. *Pak. J. Agri. Sci.* 42: 3-4.

- Murtaza, G., A. Ghafoor, U.Z. Kahloon, M. Bilal and M.I. Manzoor. 2005. Comparative growth response of rice and wheat varieties at different EC and SAR ratios in soil. Pak. J. Agri. Sci. 42:99-106.
- Naveed, M, J. Iqbal, M. A. Kausar and Z. A. Zahir. 2005. Differential response of four mungbean cultivars to zinc, copper and boron. Soil & Environment 25 (1): 69-74.
- Rehman, O.U., A.M. Ranjha, M.A. Gill and S.M. Mehdi. 2005. Phosphorus requirement of wheat using modified Freundlich model in Rasulpur soil series. Pak. J. Agri. Sci.41:1-2.
- Rehman, O.U., A.M. Ranjha, S.M. Mehdi and A.A. Khan. 2005. Phosphorus requirement of wheat using modified Freundlich model in Sultanpur (Pakistan) soil series. Int. J. Agri. Biol. 7(1): 74-78.
- Sajjad, N., S.M. Mehdi and A.M. Ranjha. 2005. Salt addition and hazard by water and potash fertilizers. J. Agri. & Social Sci. 1(1):71-74.
- Yaseen, M., M. Arshad and A. Rahim. 2005. Effect of soil applied encapsulated calcium carbide on growth and yield of rice (*Oryza sativa* L.). Pakistan J. Botany 37: 629-634.
- Yousaf, S., M.J. Akhtar, W. Raza, A. Khalid and M. Arshad. 2005. Effect of *Rhizobium* inoculation and soil applied indole acetic acid on growth, nodulation and yield of mungbean (*Vigna radiata* L.). Pakistan J. Soil Sci. 23: 89-94.

2006

- Ahmad, S., A. Ghafoor, M. Qadir and M.A. Aziz. 2006. Amelioration of a calcareous saline-sodic soil by gypsum application and different crop rotations. Intl. J. Agric. Biol. 8(2): 142-146.
- Ahmad, W., Rahmatullah, S. Kanwal and T. Aziz. 2006. Phosphorus desorption/release kinetics from different depths of calcareous soils by iron-coated filter paper strips. J. Botany 1(1): 117-123.
- Asghar, H.N., M. Ishaq, Z.A. Zahir, M. Kalid and M. Arshad. 2006. Response of radish to integrated use of nitrogen fertilizer and recycled organic waste. Pakistan J. Botany (In press)
- Hussain, A., A. Ghafoor and G. Murtaza. 2006. Use of models for phosphorus adsorption on some sodic soils of Punjab. Intl. J. Agric. Biol. 8(2):241-248.
- Qamar, M.J., A. Ghafoor, G. Murtaza, Saifullah and M.Z. Rehman. 2006. Use of low quality water for reclamation of saline-sodic soil by growing rice and wheat crops. Pak. J. Bot. (accepted)
- Raza, A.H., Rahmatullah, S. Kanwal, M.A. Tahir and M. Sabir. 2006. Growth performance of fine and coarse varieties of rice to applied nitrogen and silicon. J. Bot. 1(1):85-92.
- Zia, M.H., A. Ghafoor, G. Murtaza, Saifullah and S.M.A. Basra. 2006. Growth response of rice and wheat crops during reclamation of saline-sodic soils. Pak. J. Bot. 38(2):249-266.

Papers/Popular Articles Published

2005

- Arshad, M. 2005. As you sow. Article on importance of application of biotech knowledge in agriculture and environment. Published in "The Nation" July 17, 2005, Lahore, Pakistan.
- Arshad, M. 2005. Augmenting biomass production. Article published in "The Nation" July 31, 2005, Lahore, Pakistan.
- Arshad, M. 2005. Biotechnology necessary for agriculture uplift. Article published in "The News" July 25, 2005.
- Arshad, M. and M. Saleem. 2005. Eliminating salinity. Salinity control through biotech knowledge. Article published in "The Nation" August 21, 2005 Lahore, Pakistan.
- Arshad, M. S. Hussain and M. Saleem. Biotech crops revolution. Article regarding the current scope of biotech farming published in "The Nation" February 07, 2006, Lahore, Pakistan.
- Asghar, H.N. and Z.A. Zahir. 2005. Environmental impact of wastes. The Nation, September 18, 2005.
- Aziz, M.A., A. Ghafoor and H.R. Ahmad. 2006. Preparing agriculturists for precision farming. In Daily Dawn. Economic and Business Review. pp. III
- Saleem M, S. Hussain and M. Arshad. Bio-saline agriculture for poverty alleviation. An agricultural policy and technology regarding article published in "Dawn" December 27, 2005, Lahore, Pakistan.
- Saleem M, S. Hussain and M. Arshad. Harnessing wetland resources. An agricultural, environmental and human resource policy regarding article published in "Dawn" December 09, 2005, Lahore, Pakistan.

2006

- Sabir, M. and A. Ghafoor. 2006. Soil Management for food security. In Daily Dawn. Economic and Business Review. p. III
- Saleem, M. and M. Arshad. 2006. Harnessing wetland resources. An article published in "The Dawn" January 09, 2006, Lahore, Pakistan.
- Saleem, M. and M. Arshad. Environmental hazards of pesticides. Environmental hazards of pesticides. An article regarding pesticides and public health published in "DAWN" March 13, 2006, Lahore, Pakistan.
- Saleem, M., S. Hussain and M. Arshad. Bio-fuel production from sugar cane. An article regarding fuel production from sugarcane published in "DAWN" March 6, 2006, Lahore, Pakistan.
- Sarfraz, H., M. Arshad and M. Saleem. Minimizing risks. An environmental and biodiversity conservation relating article published in "The Nation" November 27, 2005, Lahore, Pakistan.
- Zia, H.S. and M. Arshad. Land degradation ---- a threat to agriculture. Published in Dawn's Economics and Business Reviews. June 12-18, 2006.

Paper Presented or Published at International Conferences

2005

- Aziz,, T., M.A. Gill, Rahmatullah, D. Steffens and S. Schubert. 2005. Rock phosphate acquisition by four Brassica cultivars. Annual Meeting of German Society of Plant Nutrition, September 27-28, 2005. Bonn, Germany.
- Khan, A.U.H. and R. Lal. 2005. Potential for carbon sequestration in soils of Afghanistan and Pakistan. Paper presented at 'Carbon Sequestration in Central Asia' Conference, at OSU, Columbus, OH, USA, Nov. 1-3, 2005.

Paper Presented or Published at National Conferences

- Ahmad, R., M. Arshad, Z.A. Zahir and A. Naseer. 2006. Integrated use of recycled organic waste and chemical fertilizers for improving maize yield. Abst. 11th International Congress of Soil Sciences on "Soil Management for sustainable agriculture and environment". March 28-30, 2006, National Agricultural Research center, Islamabad, Pakistan. p. 11.
- Ahmad, W. Rahmatullah, S. Kanwal and T. Aziz. 2006. Release kinetics of phosphorus from different depths of calcareous soils by iron-coated filter paper strips. Presented as poster in Intl. Symp. on Applications of Plant Sciences in Emerging Scenario. GC University, Faisalabad.
- Akhtar, M.J., M. Naveed, Z.A. Zahir, H.N. Asghar and M.Arshad. 2006. Integrated application of plant growth prompting rhizobacteria containing acc-deaminase activity and chemical fertilizers for enhancing growth and yield of wheat. Abst. 11th International Congress of Soil Sciences on "Soil Management for sustainable agriculture and environment". March 28-30, 2006, NARC, Islamabad. p. 92.
- Ali, L., Rahmatullah and T. Aziz. 2006. Potassium substitution by sodium in cotton cultivars with different potassium requirements. Abst. p. 34. 11th International Conference of Soil Science Society of Pakistan, 28-31 March, 2006, NARC, Islamabad.
- Asghar, H.N., J. Iqbal, Z.A. Zahir and M. Arshad. 2006. Enrichment of recycled organic waste with nitrogen and biologically active substances for improving growth and yield of wheat (*Triticum aestivum* L.). Abst. 11th International Congress of Soil Sciences on "Soil Management for sustainable agriculture and environment". March 28-30, 2006, NARC, Islamabad.
- Aziz, T., Rahmatullah, S. Kanwal and M.A. Maqsood. 2006. Plant traits responsible for differential P acquisition of brassica cultivars. 34th Annual Conference of Pakistan Association for the Advancement of Sciences. Abst. p. 10. Univ. of Vet. Animal Sci., Lahore, Pakistan.
- Iqbal, M., A. Hassan, A. M. Ranjha and Z. A. Cheema. 2006. Effect of tillage systems and farm manure application on soil and plant N, P, K and organic matter content at maize harvest. 11th Cong. Soil Sci., Soc. Pak., March 28-31, 2006. National Agricultural Research Center, Islamabad.

- Iqbal, M., A. Hassan, A. M. Ranjha and Z. A. Cheema. 2006. Soil physical properties and growth of maize (*Zea mays* L.) as affected by tillage systems and farm manure application. 11th Cong. Soil Sci., Soc. Pak., March 28-31, 2006. National Agricultural Research Center, Islamabad.
- Manzoor, N., Rahmatullah, S. Kanwal and T. Aziz. 2006. Comparative utilization of phosphorus by five crop species from different P sources. p. 20. 11th International Conference of Soil Science Society of Pakistan, 28-31 March, 2006, NARC, Islamabad.
- Maqsood, M.A., Rahmatullah, S. Kanwal and T. Aziz. 2006. Heavy metal contents in plants grown on contaminated soils. 34th Annual Conference of Pakistan Association for the Advancement of Sciences. p. 12. Univ. of Vet. Animal Sci., Lahore, Pakistan.
- Naveed, M., Z.A. Zahir, H.N. Asghar and M. Arshad. 2006. Potential of plant growth promoting rhizobacteria containing acc-deaminase activity for improving growth and yield of wheat under fertilized conditions. 11th International Congress of Soil Sciences on "Soil Management for sustainable agriculture and environment". March 28-30, 2006, NARC, Islamabad. p. 91.
- Sabir, M., A. Ghafoor, G. Murtaza and T. Aziz. 2006. Safe use of heavy metal contaminated soils and environmental sustainability. p. 120. 11th International Conference of Soil Science Society of Pakistan, 28-31 March, 2006, NARC, Islamabad.
- Sabir, M., A. Ghafoor, M.A.Gill, Rahmatullah and T. Aziz. 2006. Mineral nutrition of crops on salt affected soils. p. 3. 11th International Conference of Soil Science Society of Pakistan, 28-31 March, 2006. NARC, Islamabad.
- Shaharoon, B., M. Arshad, Z.A. Zahir and A. Khalid. 2006. Performance of *Pseudomonas* spp. containing acc-deaminase for improving growth and yield of maize (*Zea mays* L.) in the presence of nitrogenous fertilizer. 11th International Congress of Soil Sciences on "Soil Management for sustainable agriculture and environment". March 28-30, 2006. NARC, Islamabad.
- Siddiq, S., Rahmatullah, T. Aziz and M.A. Maqsood. 2006. Phosphorus immobilization by wheat, barley, oat, berseem and brassica from different P sources. p. 3. 11th International Conference of Soil Science Society of Pakistan, 28-31 March, 2006, NARC, Islamabad.
- Tahir, J., A. Khalid, M. Arshad and Z. A. Zahir. 2006. Bacterial acc-deaminase induced modification in root morphology and its influence on growth and yield of chickpea. Abst. 11th International Congress of Soil Sciences on "Soil Management for sustainable agriculture and environment". March 28-30, 2006, National Agricultural Research center, Islamabad, Pakistan. p. 93.
- Zafar, M.I., Z.A. Zahir, A. Khalid and M. Arshad. 2006. Bioconversion of organic waste into a value added product and its use for improving growth and yield of wheat. p. 88. 11th International Congress of Soil Sciences on "Soil Management for sustainable agriculture and environment". March 28-30, 2006. NARC, Islamabad.
- Zahir, Z.A., M. Zobair, M. Naveed, A. Khalid and M. Arshad. 2006. Effect of integrated use of chemical fertilizers and enriched compost on growth and yield of rice. 11th International Congress of Soil Sciences on "Soil Management for sustainable agriculture and environment". March 28-30, 2006. NARC, Islamabad.

INSTITUTE OF HORTICULTURAL SCIENCES

Foreign

2005

- Abbas, M., M.M. Khan, S. M. Mughal and I. A. Khan. 2005. Prospects of classical cross protection technique against citrus tristeza closterovirus in Pakistan. *HortSci. (Prague)* 32 (2): 74-83
- Jaskani, M.J., I.A. Khan and M.M. Khan. 2005. Fruit set, seed development and embryo germination in interploid crosses of citrus. *Scientia Horticulturae* 107:51-57.
- Jaskani, M.J., S.W. Kwon and D.H. Kim. 2005. Comparative study on vegetative, reproductive and qualitative traits of seven diploid and tetraploid watermelon lines. *Euphytica* 145:259-268.
- Khan, M.M., M.J. Iqbal and M. Abbas. 2005. Loss of viability correlate with membrane damage in aged turnip (*Brassica rapa*) seeds. *Seed Science and Technology* 33-2:517-520

2006

- A. Y. Al-Maskri, M. Mumtaz Khan, Hasnain Raza and Mazhar Abbas. 2006. Drought Stress in Crop Plants- A Review. Journal of Food Agriculture and Environment, 4(1): xxxx (in press)
- Abbas, M., M.M. Khan, S.M. Mughal. I.A.Khan and J.Jaskani. 2006. Propagation of Kinnow Mandarin by Microbudding for multiplication of CTV free plants. 10th International Citrus Congress, 15-20 February, Morocco. (In press)
- T. Saeed, Muhammad Usman, M. M. Khan, B. Fatima and I. A. Khan. 2006. Recovery of spontaneous polyploids in citrus. 10th International Citrus Congress, 15-20 February, Morocco. (In press)

National

2005

- Jaskani, M.J., M.Qasim, J. Sherani, Z. Hussain and H. Abbas. 2005. Effect of growth hormones on shoot proliferation of rose cultivars. Pakistan Journal of Botany 37:875-882.
- Jaskani, M.J., S.W. Kwon and B.R. Ko. 2005. Flow cytometry of DNA contents of colchicine treated watermelon as a ploidy screening method at M1 stage. Pakistan Journal of Botany 37:685-696.
- M.H. Babar, M. Afzal, M.A. Ali and M.H. Bashir. 2005. Relative efficacy of different acaricides (dicol, abamectin and hexythiazox) against mushroom mites (Phgmephoroidae) Pak. J. Agri. Sciences 42 (3-4): 45-47.
- M.H. Babar, M. Afzal, M.H. Bashir and M.A. Ali. 2005. Chemical control of mushroom mite (Tarsonimidae) at different time intervals and concentrations of difcol, abamectin and hexythiazox. Pak. J. Agri. Sciences 42 (3-4): 42-44.
- Nasir, M.A., A. Aziz, A. Rehaman, T.A. Mohar and S. Ahmad. 2005. Effect of NPK alone and Incombination with Sandaflore on Bearing and Fruit in Kinnow Mandarin. Pak. J. phytopathol., 17(2): 174-176.
- Qasim, M., I.Ahmad, M.A.Khan and K.Zaif (2005) Efficacy of varying nitrogen, Pak.J.Agri.Sci. 42(3-4): 16-20.

2006

- Abbas, G., S. Ahmad, A. R. Khan and K. Fatima. 2006. Performance of Spanish Sweet Orange Varieties under Local Conditions. Journal of Botany. 1(1): 63-66.
- Abbas, H., M.J. Jaskani, Z. Hussain and M. Asif. 2006. Response of rose cuttings against root promoting hormones during spring and autumn. International Journal of Biology and Biotechnology 3:201-204.
- Ahmad, S., A. K. Thompson M.A. Pervez, H.Ullah. 2006. Effect of Ethylene on the Ripening and Quality of Polyethylene Packed Banana. Journal of Botany. 1(1): 75-84
- Ahmad, S., A.K. Thompson, M.A. Perviez, H. Ullah and Z.A. Chatha, 2006. Effect of Polyethylene Film Thickness and Exposure Time of Ethylene on the Ripening Behaviour and Quality of Banana. International Journal of Agriculture & Biology. 8(3): 381-388.
- Ahmad, S., M.A. Perviez, Z. A. Chatha, and A.K. Thompson, 2006. Improvement of Banana Quality in Relation to Storage Humidity, Temperature and Fruit Length. International Journal of Agriculture & Biology. 8(3): 370-380.
- Ahmad, S., Z. A. Chatha, M.A. Nasir, A. Aziz and M. Mohan. 2006. Effect of Humidity on the Ripening Behavior and Quality of Ripe Fruit. Journal of Agriculture and Social Sciences. Vol.2. No. 1:54-57.
- Ahmad, S., Z.A. Chatha, M.A. Nasir, A. Aziz and A.R.Khan. 2006. Effect of Pruning on the Yield and Quality of Kinnow Fruit. Journal of Agriculture and Social Sciences. Vol.2. No. 1:51-53.
- Anwar, R., Hussain, Z., Ahmad, S. and Razi, F. 2006. Vegetative and reproductive physiology of April flush in mango (*Mangifera indica L.*) cv. Dusehri. Int. J. Agric. Biol., 8(4):452-454.
- Anwar, R., Z. Hussain, S. Ahmad and F. Razi. 2006. Vegetative and Reproductive Physiology of April Flush in Mango (*Mangifera indica L.*) cv. Dusehri. International Journal of Agriculture & Biology. 8(4): 452-454.
- Jaskani, M.J., H. Abbas, M.M. Khan, U. Shahzad and Z. Hussain. 2006. Morphological description of three potential citrus rootstocks. Pakistan Journal of Botany 38:311-318.

- Jaskani, M.J., S.W. Kwon and D.H. Kim. 2006. Seed treatments and orientation affects on germination and seedling emergence in tetraploid watermelon. *Pakistan Journal of Botany* 38:89-98.
- Khan, M.M., M.A. Khan, M.A. Ali and M. Abbas. 2006. Evaluation of potting media for the production of rough lemon seedling stock. *Pak. J. Botany*.
- Ullah, H., S. Ahmad, A. K. Thompson, F.M. Tahir. 2006. Quality and Shelf Life of Mangoes under Controlled Atmosphere Storage. *Journal of Botany* 1(1): 53-62.

Papers presented in International Conferences

27th Intl. Horticulture Congress, Seoul, Korea on 13th August to 19th August, 2006.

INSTITUTE OF FOOD SCIENCES & TECHNOLOGY

Foreign

2005

- Asghar A., F.M. Anjum, M W Tariq and S. Hussain. 2005. Effect of carboxy methyl cellulose and gum arabic on the stability of frozen dough for bakery products. *Turk. J. Biol.* 29:237-41.

2006

- Ajmal, M., M.S. Butt; K. Sharif; M. Nasir and T. Nadeem. 2006. Preparation of fiber and mineral enriched pan bread by using defatted rice bran. *International Journal of food Properties* (Vol. 9, Issue 4, accepted on 18-01-2006).
- Anjum F. M., M I Khan, M S Butt, S. Hussain and M Abrar. 2006. Functional properties of soy hulls supplemented wheat flour. *Nutrition and Food science* 36(2).
- Arshad M. U., Faqir M. Anjum and Tahir Zahoor. 2006. Nutritional assessment of cookies supplemented with defatted wheat germ. *Food Chem.* (Food chem-D-06-00298R1).
- Bajwa. B. E and F. M. Anjum. 2006. Improving storage performance of *citrus reticulata* blanco mandarins by controlling some physiological disorders. *Int. J. Food Sci. & Tech.* 41, 1-7.
- Butt, M.S.; N. Shahzadi; M.K. Sharif and M. Nasir. 2006. Canonical correlation: a multivariate technique to determine the contribution of various dependent and independent variables. *International J. Food Science & Technology* (Manuscript ID # IJFST-2005-00544.R1, accepted on 16-06-2006)
- Butt, M.S.; N. Shahzadi; M.K. Sharif and M. Nasir. 2006. Guar gum: a miracle therapy for hypercholesterolemia, hyperglycemia and obesity. *Critical Reviews in Food Science and Nutrition* (accepted on 02-05-2006).
- Huma. N., S. U. Rehman, F. M. Anjum, M. A. Sheikh and M. A. Murtaza. 2006. Food fortification strategy – preventing iron deficiency anemia: a review. Paper accepted in *Critical reviews in Food Sci. and Nutrition*.
- Hussain S. Faqir M. Anjum, M. S. Butt, M. I Khan and A. Asghar. 2006. Physical and sensoric Attributes of Flaxseed Flour Supplemented Cookies. *Turk. J. Biol.* 30: 87-92.
- Rehman S. U., S. A. Anjum and F. M. Anjum. 2006. Storage stability of ferrous iron in whole wheat flour naan- production. Accepted (jfpp24-069) in *J. Food Processing and Preservation*.
- Shahzadi, N.; M.S. Butt.; M.K. Sharif and M. Nasir. 2006. Effect of guar gum on the serum lipid profile of sprague dawley rats. *LWT- Food Science and Technology* (Manuscript ID: YFSTL_1025, accepted on August 16, 2006).

Local

2005

- Akhtar S., F. M. Anjum and S.U. Rehman. 2005. Effect of iron and zinc fortification on chemical composition of whole wheat flour. *J. Res. (Sci.)* 16(2): 95-103.
- Akhtar S., F. M. Anjum, S. U. Rehman and A. Ahmad. 2005. Impact of storage on phytate content of fortified whole wheat flour. *Pak. J. Food Sci.* 15(3-4): 8-11.
- Akhtar, S., F.M. Anjum, S. Rehman and A. Ahmad. 2005. Impact of storage on phytate content of fortified whole wheat flour. *Pak. J. Food Sci.*, 15(1-2): 7-11.

- Asghar A., F. M. Anjum, S. Hussain and M. W. Tariq. 2005. Effect of polyols on quality and acceptability of frozen dough bread. *Pak. J. Food Sci.* 15(3-4): 12-15.
- Huma, N., S. Rehman, F.M. Anjum and M.A. Sheikh. 2005. Suitability of wheat flour for chapatti production. *Int. J. Agric. & Biol.*, (Accepted).
- Hussain S., S. Saeed, S. U. Rehman and F. M. Anjum. 2005. Biological evaluation of chemically preserved *Agaricus bitorquis* mushroom. *Pak. J. Food Sci.* 15(3-4): 16-19.
- Hussain, S., S. Rehman, A.Ali Khan and S. Nadeem. 2005. Studies on monitoring pH responses during preservation of mushrooms (*Agaricus bisporus*, *A. bitorquis* and *Pleurotus ostreatus*) in steeping solution. *Pak. J. Food Sci.*, 15(1-2): 31-33
- Hussain, S., S. Rehman, F.M. Anjum and M.A. Murtaza 2005. Proximate composition and mineral content of some cultivated mushroom. *J. Agric. Social Sci.* 1(4): (Accepted)
- Hussain, S., S. Saeed and S. Rehman. 2005. Biological evaluation of chemically preserved *Agaricus Bitorquis* mushroom. *Pak. J. Food Sci.*, 15(1-2): 17-20.
- Khan M I, F. M. Anjum, S. Akhtar. 2005. Nutritional Improvement of chapatti using soy hulls. *J Res. (Sci.)*, 16(2): 57-63.
- Shaheen M., F. M. Anjum, M.S. Butt, A.D. Khan, T. Zahoor and A. Ahmad. 2005. Effect of rice bran supplementation on quality of bread. *Pak. J. Food Sci.* 15(3-4): 1-7.
- Shahzadi, N., M. S. Butt, S. Rehman, K. Almas and K. Sharif. 2005. Rheological and baking performance of composite flours. *International Journal of Agriculture and Biology* 7(1): 100-104.
- Shahzadi, N., M. S. Butt, S. Rehman, K. Almas and K. Sharif. 2005. Chemical characteristics of various composite flours. *International Journal of Agriculture and Biology* 7(1): 105-108.

INSTITUTE OF ANIMAL NUTRITION AND FEED TECHNOLOGY

Foreign

2005

- Mirza, M. A. and Miller, E. L. 2005. *In vitro* degradability of feed proteins in the rumen: Use of non-rumen proteases. *Australian Journal of Agricultural Research* 56:797-801.
- Mushtaq, T., Sarwar, M., Nawaz, H., Mirza, M. A. and Ahmad, T. 2005. Effect and interactions of sodium and chloride on broiler starter performance (one-to-twenty eight days) under subtropical summer conditions. *Poultry Science* 84: 1716-1722.
- Ahmad, T., M. Sarwar, M.U. Nisa, A.U. Haq and Z.U. Hasan. 2005. Influence of varying sources of dietary electrolytes on the performance of broilers reared in a high temperature environment. *Anim. Feed Sci. Tech.* 120: 227-298.
- Zakir, S., M. Sarwar, J. Allen, M. S. Butt., and H. Allen. 2005. Effect of sweet potato on Insulin efficiency of normal and diabetics subjects in Pakistan. *Euro.J.Scient.Res.*10: 87-97.
- Nisa, M., N.A. Touqir, M. Sarwar, M. A. Khan and M. Akhtar. 2005. Effect of additives and fermentation periods on chemical composition and *in situ* digestion kinetics of mott grass (*Pennisitum purpureum*). *Asian-Aust. J. Anim. Sci.* 18: 812-815 .
- Sarwar,M., M.A.Khan and M.Nisa. 2005. Chemical composition and feeding value of urea treated corncobs ensiled with additives for sheep.*Aust.J.Agri.Res.*65:685-690 .
- Sarwar, M., M. A. Khan, M.Nisa and N. A. Touqir. 2005. Influence of berseem and lucerne silages on feed intake, nutrient digestibility and milk yield in lactating *Nili* buffaloes. *Asian-Aust. J. Anim. Sci.* 18: 475-478.

2006

- Ahmad, T., Mushtaq, T., Mahr-un-Nisa, Sarwar, M., Hooge, D. H. and Mirza, M. A. 2006. Effect of different non-chloride sodium sources on the performance of heat-stressed broiler chickens. *Br. J. Poult. Sci.* 47(3): 249-256.
- Khan, A., M. Sarwar., M. Nisa., M. S. Khan., S. A. Bhatti., Z. Iqbal., W. S. Lee., H. J. Lee1., H. S. Kim1 and K. S. Ki1. 2006. Feeding value of urea treated wheat straw ensiled with or without acidified molasses in *Nili-Ravi* buffaloes. *Asian-Aust. J. Anim. Sci.* 19: 645-650. .

- Khan, M.A., Z. Iqbal, M. Sarwar., M. Nisa., M. S. Khan., W. S. Lee., H. J. Lee and H. S. Kim. 2006. Urea treated corncobs ensiled with or without additives for buffaloes: Ruminant characteristics, digestibility and nitrogen metabolism. *Asian-Aust. J. Anim. Sci.* 19:705-712. .
- Nisa, M., M.A. Khan., M. Sarwar., M. Mushtaque, G. Murtaza, W.S. Lee. and K.S. Kim. 2006. Influence of re-growth interval on chemical composition, herbage yield, and digestibility and digestion kinetics *setaria sphacelata* and *cenchrus ciliaris* in buffaloes. *Asian-Aust. J. Anim. Sci.* 19: 381-385.
- Sarwar, M., M. Nisa, M. Ajmal Khan and M. Mushtaque. 2006. Chemical composition, herbage yield, nutritive value of *Penicum antidotale* and *Pennisetum orientale* for *Nili Ravi* buffaloes at different clipping intervals. *Asian-Aust. J. Anim. Sci.* 19: 176-180.

National

2005

- Khan Z. I., Valeem, E. E.; Hussain , A.; Ashraf, M.; Ashraf, M. Y.; McDowell, L. R. Akhtar, M. S. and Mirza, M. A. 2005. Effect of seasonal variation on zinc content of soil, forage, water, feed, and small ruminants grazing the native and improved pasture during different seasons in the semi-arid region of Pakistan. *International Journal of Biology and Biotechnology*, 2: 465-474.
- Iqbal, S.; S.A. Bhatti., M. Nisa., and M. Sawar. 2005. Influence of Varying levels of organic green culture and enzose on silage characteristics of mott grass and its digestion kinetics in *Nili- Ravi* buffalo bulls. *In. J. Agric. Biol.* 7:1011-1014

Papers presented and/or published at international conferences

2005

- Babar, M. E. and Mirza, M. A. 2005. Farm animal genetic resources of Pakistan. VI Ibero-American Symp. on Conservation and Utilization of Indigenous Animal Genetic Resources. University of Chiapas, Mexico. Nov. 7-10.

2006

- Mushtaq, T., Sarwar, M., Ahmad, G., Nisa, M. U., Jamil, A. and Mirza, M. A. 2006. Performance and carcass responses of broiler chickens to exogenous multi-enzyme supplementation, sunflower meal and digestible lysine levels during one-to twenty eight days of age. XII Scientific Poultry Conf. Verona, Italy. Sept. 10-14th.
- Mirza, M. A., Iqbal, A. and Raza, S.A. 2006. Contribution of small ruminants in ensuring food security and poverty reduction in lower economic stratum of rural population in Pakistan- Critical evaluation. International Conf. on Livestock Services. April 16-22. Beijing, China.

Papers presented and/or published at national conferences

2005

- Ahmad, T, Mushtaq, T., Sarwar, M., Mirza, M. A. and Hooge, D. M. 2005. Effect of different non-chloride sodium sources on the performance of heat stressed broiler chickens. 1st Kashmir International Science Conf. Univ. AJK, Muzaffarabad, Pakistan. Sept. 23-24.
- Mirza, M. A. 2005. *In vitro* degradability of maize gluten meal protein with nonrumen proteases. 1st Kashmir International Science Conf. Univ. AJK, Muzaffarabad, Pakistan. Sept. 23-24.
- Mirza, M. A. 2005. Estimation of microbial protein synthesis from organic matter fermented (FOM) in a continuous culture apparatus. 1st Kashmir International Science Conf. Univ. AJK, Muzaffarabad, Pakistan Sept. 23-24.

**RESEARCH
PUBLICATIONS
PUBLISHED
2006-07**

RESEARCH PUBLICATIONS PUBLISHED 2006-07

FACULTY OF AGRICULTURE

Dept. of Agri. Entomology

2006

- Afzal, M., M.H. Bashir and A.B.M. Raza. 2006. Identity of *Phytoseius (Phytoseius) adornatus* (Acari: Phytoseiidae) with its distribution record. Pak. Entomol. 28(2): 35-38.
- Afzal, M., M.H. Bashir, S. Akbar and B.S. Khan. 2006. Identity and distribution of a new Phytoseiid (Acari) mite from Pakistan. Pak. Entomol. 28(1): 73-75
- Ahmad, J.M., M.H. Bashir and M. Afzal. 2006. Description of a new species of the genus *Gnorimus* (Acari: Phytoseiidae) from Rahim Yar Khan. Pak. Entomol. 28(1): 69-71.
- Ahmad, T. and M. Ashfaq. 2006. Ovipositional preferences, incidence of larval population and infestation of *Helicoverpa armigera* (Hubner) on various genotypes of cotton in Pakistan. Bull. Fac. Agric., Cairo Univ., 57: 147-168.
- Arain, M. A., A. Ahmad, T. Ahmad and M. Afzal. 2006. Use of solar radiations at village level for thermal disinfestations of wheat stored in galvanized steel bins. Pak. Entomol., 28 (1): 57-64
- Arain, M. A., T. Ahmad and M. Afzal, 2006. Preliminary studies on Khapra Beetle *Trogoderma granarium* Everts. infestation in wheat under lab. conditions. Pak. Entomol., 28 (1): 27-30
- Arif, M.J., M. Ashfaq, M.D. Gogi, Anjum Suhail, K. Zia and R.M. Sarfraz. 2006. Population dynamics of *Pectinophora gossypiella* (Saunders) (Gelechiidae: Lepidoptera) on different transgenic and conventional cotton cultivars under abiotic factors.. Proc. Intern. Symp. Sust. Crop. Impr. Integr. Manag., Fac. Agric., Univ. Agric., Faisalabad, Pakistan. Pp. 110-117.
- Arshad, M. Anjum Suhail, S.A.A. Shah, U. Naeem and A. M. Sabir. 2006. External morphology of some species of the genus *Aiolopus* (Fieber): A comparative study. Accepted for 26 the Pak. Conger. Zool. To be held at Univ. of the Punjab, Lahore on April 4-6. Ent. 40:82
- Ashfaq M. and M. Aslam. 2006. Renewal of Sericulture Industry in Pakistan. SAARC New Letter, Published by the Director, SAARC Agricultural Information Centre (SAIC), BARC Campus, Farmgate, Dhaka-1215, Bangladesh. pp. 11-12.
- Ashfaq M. and R. R. Khan. 2006. Quality Production Through: IPM and Technologies for Environment Friendly and Sustainable Agriculture. Proc. Of International Conference on "Productivity and Growth in Agriculture: Strategies and Interventions". Faculty of Agri. Economics & Rural Sociology, University of Agriculture, Faisalabad. Pp 13-14.
- Ashfaq M. and R. R. Khan. 2006. Quality Production Through: IPM and Technologies for Environment Friendly and Sustainable Agriculture. International Conference on "Productivity and Growth in Agriculture: Strategies and Interventions". Faculty of Agri. Economics & Rural Sociology, University of Agriculture, Faisalabad. Proceedings in progress.
- Ashfaq M. and R.R. Khan. 2006. Sustainable pest management with eco-friendly techniques. 34th Pakistan SAARC Countries Science Conference and Symposim, UVAS, Lahore, 2006. pp. 21.
- Ashfaq, M., A. Ahmad and S. Ahmed. 2006. Antixenosis resistance in various plants offered as food to *Mythmna separate* (Walk.) (Concludiae: Lepidoptera). Pak. Entomol., 28(2): 5-7.
- Ashfaq, M., J. Manzoor and M. Afzal. 2006. Comparative studies on the efficacy of electrodyn spray system with different flow rates and application techniques against insect pests of cotton. Pak. Entomol., 28(2): 1-4.
- Ashfaq, M., M. A. Wahla, I. Pervez and M. Aslam. 2006. Influences of Different Nutritional Sources on Various Development and Biological Aspects of Silkworm, *Bombyx mori* L. 2(3):233-238, ISSN 1817-3047.
- Ashfaq, M., M.J. Arif, M.D. Gogi, Anjum Suhail, R.M. Sarfraz and K. Zia. 2006. Comparative resistance of transgenic and conventional cotton cultivars against spotted bollworms *Earias* sp. (Lepidoptera: Noctuidae) on squares, flowers and bolls during the growing season of cotton in Pakistan.. Proc.

- Intern. Symp. Sust. Crop. Impr. Integr. Manag., Fac. Agric., Univ. Agric., Faisalabad, Pakistan. Pp. 100-109.
- Ashfaq, M., T.I. Gill and A. Ali. 2006. Consumption and utilization of various plants by parasitized and unparasitized larvae of cabbage butterfly (*Pieris brassicae* L.). Pak. Entomol., 28(1): 1-4.
- Bashir, M. H. And M. Afzal. 2006. New species of the genus *Dactyloscirus* (Acari: Cunaxidae) from Punjab, Pakistan. Pak. J. Zool., 38 (4): 273-278
- Bashir, M. H., M. Afzal and S. Akbar. 2006. Genus *Dactyloscirus* (Acari: Cunaxidae) from Pakistan. Biologia, 52 (1): 71-77.
- Bashir, M.H., M. Afzal and B.S. Khan. 2006. A new species *Coleoscyrus trudus* (Acari: Cunaxidae) from Pakistan. Pak. Entomol. 28(2): 73-77.
- Bashir, M.H., M. Afzal and J.N. Ahmad. 2006. Description of two new Phytoseiid mites of genera *Neoseiulus* and *Euseius* from district Rahim Yar Khan. Pak. Entomol. 28(2): 57-61.
- Gogi, D.M. R.M. Sarfraz, L.M. Dossall, M. J. Arif, A.B. Keddie and M. Ashfaq. 2006. Effectiveness of two insect growth regulators against *Bemisia tabaci* (Gennadius) (Homoptera: Aleyrodidae) and *Helicoverpa armigera* (Hübner) (Lepidoptera: Noctuidae) and their impact on population densities of arthropod predators in cotton in Pakistan. Pest Manag. Sci. 62: 982-990.
- Jamil, M., Anjum Suhail, M. Arshad, F. Hafeez and S.A.A. Shah. 2006. Biodiversity of insect fauna associated with summer vegetables in district Bahawalpure. Accepted for 26 the Pak. Conger. Zool. To be held at Univ. of the Punjab, Lahore on April 4-6. Ent. 39:81.
- Kamran, M., M. Afzal, M. H. Bashir and B. S. Khan. 2006. A new larval ectoparasite mite of genus *Hauptmannia* (Acari: Erythraeidae) from thrips in Pakistan. Biologia, 52 (2). (Accepted for Publication)
- Muhammad Ashfaq, Abrar Ahmad and Sohail Ahmed. 2006. Some Studies On Attraction Of Various Plants Offered As Food To *Mythimna Separata* (Walk.) (Noctuidae: Lepidoptera). Pakistan Entomologist, 28 (2): 1-4.
- Rana, N., S. A. Rana., Anjum Suhail, M.J.I. Siddiqui and M.Z. Iqbal. 2006. Diversity of soil macrofauna in sugarcane of HIP andLIP nature: past finding and future priorities. Pak. Entomol., 28(1):19-22.
- Rana, Naureen, S.A. Rana, Anjum Suhail, M.J. Siddiqui and M.Z. Iqbal. 2006. Diversity of soil macrofauna in sugarcane. Proc. Intern. Symp. Sust. Crop. Impr. Integr. Manag., Fac. Agric., Univ. Agric., Faisalabad, Pakistan. Pp. 285-291.
- Razaq, M. M. Aslam and Anjum Suhail. 2006. Pyrethroid resistance and piperonyl butoxide synergism in cotton whitefly, *Bemisia tabaci* (Genn.). 3rd Nat. Conf. Agric. An. Sci., 21-23 Nov., Lahore. P:48.
- Razaq, M. M. Aslam and Anjum Suhail. 2006. Synergism of pyrethroids with piperonyl butoxide (PBO) in jassid, *Amrasca devastans* (Dist.) (Homoptera: Cicadellidae) in Pakistan. Pak. Entomol., Pak. Entomol., 28(2):51-56.
- Sabir, A. M., Anjum Suhail, M. Saleem, A. H. Bhatti, and M. Shafiq. 2006. Beekeeping in the Punjab: a case study. Accepted for 26 th Pak. Conger. Zool. To be held at Univ. of the Punjab, Lahore on April 4-6.
- Sarwar M and M. Ashfaq. 2006. A new Mite pest (Acaria: Acaridae) detected from Stored Commodity in the Punjab Province of Pakistan. Acarol: 2006. XLVI, 1-2: 115-120.
- Sarwar M and M. Ashfaq. 2006. Systematic of one new species of the genus *glyphanotus oudemans* (ACARI: histionsmatide) found in Pakistan. Acarol. 2006. XLVI, 1-2: 111-114.
- Shahzad, F., Anjum Suhail, M. Arshad, A. M. Sabir and U. Naeem. 2006. Biodiversity of sucking insect pests associated with cotton crop in Multan district. Accepted for 26 the Pak. Conger. Zool. To be held at Univ. of the Punjab, Lahore on April 4-6. Ent. 41:83
- Shazia, M. Tayyib, A. Suhail and M. J. Yousuf. 2006. Systematics and population of Sarcophagid flies in Faisalabad (Pakistan). Int. J. Agri. Biol., 8 (6):809-811.
- Siddiqi, M.J.I., S. A. Rana, M. Ismail and Anjum Suhail. 2006. Role of Antennal Sensilla of Soil Beetles As Food Selection In The Fields Of Sugarcane. Pak. Entomol., Pak. Entomol., 28(2):39-44.
- Sohail Ahmed and M. Ahmad. 2006. Toxicity of some insecticides on *Bracon hebetor* (Say) (Hymenoptera: Braconidae) under laboratory conditions. Phytoparastica, 344: 401-404.

- Sohail Ahmed and Muhammad Farhan. 2006. Laboratory Evaluation of chlorpyrifos, bifenthrin, imidacloprid, thiamethoxam and flufenoxuron against *Microtermes obesi* (Isoptera: Termitidae). Pakistan Entomologist, 28 (2): 45-50
- Sohail Ahmed and Muhammad Shakeel Ahmad. 2006. Effect of Insecticides on the Total Number of Soil Bacteria under Laboratory and Field Conditions. Pakistan Entomologist, 28 (2): 63-68.
- Sohail Ahmed, T. Mustafa, M. A. Riaz and A. Hussain. 2006. Efficacy of insecticides on subterranean termites in sugarcane at Bhakkar. Intern. J. Agri. Biol., 8: 508-510.
- Tayyab, M. Anjum Suhail, Shazia and M. Arshad. 2006. Biodiversity of lepidopterous insects in agro-forest area of Bhawalpur. Pak. Entomol., Pak. Entomol., 28(2):5-10.

2007

- Afzal, M and M. H. Bashir. 2007. Collection of new species of the subgenus *Phytoseius* (*Phytoseius*) Ribaga from coastal and subtropical continental low lands of Pakistan. Pak. J. Agri. Sci., 44 (1-2): In Press
- Afzal, M. and M.H. Bashir. 2007. Influence of certain leaf characters of some summer vegetables with incidence of predatory mites of the family Cunaxidae. Pak. J. Bot. 39(1): 205-209.
- Ahmed S., R. R. Khan and M. A. Riaz. 2007. Some Studies on the Field Performance of Plant Extracts against Termites (*Odentotermes guptai* and *Microtermes obesi*) in Sugarcane at Faisalabad. Int. J. Agri. Biol., 9(3): 398-400.
- Arshad, M. and Anjum Suhail. 2007. Farm appraisal and farmer's perception to insect pests incidence and their management practices in Bt. Cotton in Punjab, Pakistan. International Congress of Insect Biotechnology and Industry, August 19-24, Daegu, Korea. Abstract accepted.
- Arshad, M. and Anjum Suhail. 2007. Biodiversity of sucking insect fauna in cotton in district Multan, Punjab, Pakistan. International Congress of Insect Biotechnology and Industries. August 19-24, Daegu, Korea. Abstract accepted.
- Bashir, M. H. And M. Afzal. 2007. A new cunaxid mite of genus *Pulaeus* (Cunaxidae) from Punjab, Pakistan. Pak. J. Zool., 39 (1): 17-20
- Bashir, M.H., M. Afzal and B.S. Khan. 2007. On the identity of two new species of the genus *Coleoscirus* (Acari: Cunaxidae) with annotations on the genus from Pakistan. Pak. J. Agri. Sci., 44 (1-2): In Press
- Suhail, A. and M. Arshad. 2007. Comparative studies on the external morphology of three species of the Genus *Acrotylus* Fiber (Orthoptera). International Congress of Insect Biotechnology and Industry, August 19-24, Daegu, Korea. Abstract accepted.
- Suhail, A., A.M. Sabir and M. Arshad. 2007. Floral association of bumble bees for pollination in Northern Pakistan. International Congress of Insect Biotechnology and Industry, August 19-24, Daegu, Korea. Abstract accepted.

Dept. of Crop Physiology

2006

- Cheema, M.A., M. Farooq, R. Ahmad and H. Munir. 2006. Climatic trends in Faisalabad (Pakistan over the last 60 years (1945-2004)). J. Agriculture and Social Sciences 2 (1); 42-45.
- Maqbool, M. M., A. Tanveer, Z. Ata and R. Ahmad. 2006. Growth and yield of maize (*Zea mays* L.) as affected by row spacing and weed competition durations. Pakistan Journal of Botany, 38 (4) : 1227-1236.
- Waraich, E. A., R. Ahmad, M. Ashraf and SaifUllah. 2006. Irrigation and Nitrogen effect on grain yield, yield components and water use efficiency of wheat (*Triticum aestivum* L.). Pakistan Journal of Science. (In press).

- Farooq, M., S.M.A. Basra, R. Tabassum and I. Afzal. 2006. Enhancing the Performance of Direct Seeded Fine Rice by Seed Priming. *Plant Production Science*. 9(4): 446-456.
- Basra, S.M.A., I. Afzal, S. Anwar, M. Shafiq, A. Haq and K. Majeed. 2006. Alleviation of salinity stress by seed invigoration techniques in wheat (*Triticum aestivum* L.). *Seed Technology*, 28: 36-45.
- Farooq, M., S.M.A. Basra, I. Afzal and A. Khaliq. 2006. Optimization of Hydropriming Techniques for Rice Seed Invigoration. *Seed Science & Technology*, 34(2): 507-512
- Farooq, M. and S.M.A. Basra, M.A. Cheema and I. Afzal. 2006. Integration of pre-sowing soaking, chilling and heating treatments for vigor enhancement in rice (*Oryza sativa* L.). *Seed Science & Technology* 34(1): 499-506
- Afzal, I., S.M.A. Basra, M. Ashraf, A. Hameed and M. Farooq. 2006. Physiological enhancements for alleviation of salt tolerance in spring wheat. *Pakistan Journal of Botany*. 38: 1649-1659
- Khan, F.M.A. Azhar I. Afzal and S. Rauf. 2006. Effect of nitrogen regimes on combining ability variation in oil and protein contents in *Gossypium hirsutum* L. *Seed. Plant Production Science*. 10(3): 367-371
- Afzal, I., S.M.A. Basra, N. Ahmad and T.E. Lodhi. 2007. Counteraction of salinity stress on wheat plants by pre-sowing seed treatments. *Pakistan Journal of Agricultural Sciences*. 44 (1): 50-58.
- Afzal, I., S.M.A. Basra, T.E. Lodhi and S. Butt. 2006. Improving germination and seedling vigor in wheat under saline conditions by halopriming. *Pakistan Journal of Agricultural Sciences*. 44 (1): 40-49
- Afzal, I., S.M.A. Basra, M. Farooq and A. Nawaz. 2006. Alleviation of salinity stress in spring wheat by hormonal priming with ABA, salicylic acid and ascorbic acid. *International Journal of Agriculture and Biology*, 8: 23-28.
- Basra, S.M.A., M. Farooq, I. Afzal and M. Hussain. 2006. Influence of osmopriming on the germination and early seedling growth of coarse and fine rice. *International Journal of Agriculture and Biology*, 8: 19-22.
- Rauf S., T.M. Khan, A. Naveed and H. Munir. Modified path to high lint in upland cotton(*Gossypium hirsutum* L.) under temperature regimes. *Turkish Journal of Biology. (Turkey)* 31: 119-126.2006
- Rauf S., H. Munir, S.M.A. Basra and E. Abdullojon. 2006. Combining ability analysis in upland cotton (*Gossypium hirsutum* L.). *International Journal of Agriculture and Biology*. 8 (3): 341-343.
- Rauf S., S.M.A. Basra and H. Munir. 2006. Induced tetraploidy in *Gossypium hirsutum* L. through seed treatment. *International Journal of Agriculture and Biology. (Pakistan) (accepted)*

Department of Plant Pathology

2006

- Ahmed, S., M. A. Khan and M. Hussain. 2006. Prediction of yield losses in wheat varieties/lines due to leaf rust in Faisalabad. *Pak. J. Phytopathol*. Vol. 18(2):178-182.
- Anwar, M. J., A. Hameed and S. M. Khan. 2006. Estimation of yield losses in Rapeseed/Mustard due to *Alternaria* leaf blight (*Alternaria brassicae*). *Pak. J. Phytopathol*. Vol. 18 (1): 44-46.
- Ashfaq, M., M. A. Khan and T. Mukhtar. 2006. Antiviral activity of plant extracts and chemicals against urdbean leaf crinkle virus. 18 (2): 145-155.
- Ilyas M.B, M. A. Randhawa and T. Naveed. 2006. Chemotherapeutic control of postharvest decay of kinnow mandarin and lemon caused by *Aspergillus niger* van Tiegh. *Pak. J. Phytopathol*. 18(2): 156-160
- Inam-ul-Haq, M., N. Javeed, S. U. Cheema, S. Mehmood and S.T. Sahi. 2006. Incidence of bacterial blight of rice (*Oryza sativa*) in Gujranwala and Sialkot districts and *In-vitro* evaluation of various chemicals against *Xanthomonas campestris* pv. *oryzae*. *Pak. J. Phytopathol*. Vol. 18 (2): 124-128.
- Inam-ul-Haq, M., S. T. Sahi M. Farooq, M. U. Ghanzafar and M. Naveed. 2006. Effect of time on population variation of rhizobacterial strains in rhizosphere of wilt affected chickpea plants. *Pak. J. Phytopathol*. Vol. 18 (2): 140-147.

- Javed, N., S.R.Gowen, M.Ashfaq, and H.U.Khan. 2006. Effect of neem products in the development of *Meloidogyne javanica*, root-knot nematodes when they were washed off after treatment. Pakistan J. of Nematology 24(1):117-120.
- Javed, N, S.R. Gowen, M. Inam-ul-Haq, K. Abdullaha, F. Shahina. 2006. Systemic and persistent effect of neem (*Azadirachta indica*) formulations against root-knot nematodes, *Meloidogyne javanica* and their storage life. Crop Protection 26: 911–916.
- Javed, N.,S.R.Gowen, H.U. Khan, S.A. Anwer and M. Ashfaq. 2006. Response of free eggs and infected juveniles of root-knot nematodes *Meloidogyne javanica* through the neem (*Azadirachta indica*) amended soil. Pakistan J. Nematology 24 (2):171-182.
- Khan, M. A., Obaid Ullah and J. Iqbal. 2006. Identification of resistant sources against potato leaf roll virus and *Myzus persicae* sulz. by biological tests and ELISA. Pak. J. Phytopathol. Vol. 18 (2): 191-198.
- Khan, M. A., J. Iqbal and Obaid Ullah. 2006. Evaluation of potato germplasm against potato virus X and Y through infectivity tests and Enzyme Linked Immuno sorbent Assay (ELISA). Pak. J. Phytopathol. Vol. 18 (2): 183-190.
- Khan, M. A., S. Rasheed and S. Ali. 2006. Evaluation of multiple regression models based on epidemiological factors to forecast *Bemisia tabaci* and Mungbean yellow mosaic virus. Pak. J. Phytopathol. Vol. 18 (2): 107-110.
- Khan, M. A., S. Rasheed and S. Ali. 2006. Management of mungbean yellow mosaic virus and its vector through varietal resistance and chemotherapy. Pak. J. Phytopathol. Vol. 18(2): 111-113.
- Khan, M. A., M. Husain, M. N. Sajid and M. Aqil Khan. 2006. A two environmental variable model to predict wheat leaf rust based on 10 years data. Pak. J. Phytopathol. Vol. 18 (2): 114-116.
- Khan, S. M., Z. H. Khan and S. M. Khan. 2006. In vitro evaluation of different systemic and non-systemic fungicides against fungi isolated from different parts of Guava (*Psidium guajava* L.) Pak. J. Phytopathol. Vol. 18 (1): 51-55.
- Khan, S. M., Z. H. Khan. S. A. Sheikh and S. M. Khan. 2006. Evaluation of productivity of five strains of oyster mushroom (*Pleurotus spp*) grown on cotton waste. Pak. J. Phytopathol. Vol. 18 (1): 56-62.
- Khan, S. M., A. Mustafa and Z. H. Khan. 2006. Studies on detection and chemical control of seed mycoflora of cowpea. Pak. J. Phytopathol. Vol. 18 (1): 73- 78.
- Khan, S. M., N. Javed, Z. H. Khan and S. M. Khan. 2006. Yield performance of different strains of osyster mushroom. Pak. J. Phytopathol. Vol. 18 (1): 89-93.
- Mahmood, K., M. A. Khan, S. T. Sahi, and M. U. Ghazanfar. 2006. Screening of potato germplasm against PVX and PVY through serological technique under field and natural conditions. Pak. J. Phytopathol. Vol. 18 (2): 117- 123.
- Mahmood, S., N. Javed , Khan, Z.H. and S. M. Khan. 2006. Yield performance of different strains of oyster mushroom. Pak. J. Phytopathol. 18(1):89-93.
- Mughal, S. M., M. A. Khan, M. B. Ilyas and S. M. Khan. 2006. Reactions of exotic and local sorghum varieties against long smut and some observations on its mode of action. Pak. J. Phytopathol. 18(1): 99-104.
- Mustafa, A., Z. H. Khan and S.M. Khan. 2006. *In-vitro* effect of plant extracts against seed mycoflora of forest trees. Pak. J. Phytopathol. Vol. 18 (1): 79-84.

2007

- Anwar, S. A. and N. Javed. 2007. Induced resistance in plants by nematodes. (Pak. J. Nematol. 25 (1): 79-85.
- Ilyas, M.B., T. Naveed, M. Inam ul-Haq, N. Javed and S.M. Mughal. 2007. Chemothrepeutic control of post harvest decay of kinow mandarin and lemon caused by *Penicillium digitatum* sacc. Pak. J. Bot. 39(2) 125-127
- Ilyas, M.B., M. U. Ghazanfer and T. Naveed. 2007. Fungicidal control of stem end rot of kinnow mandarin and lemon caused by *Alternarea citri*. Int. J. Biology and Biotech. 4(1):75-78

- Javed, N, S.R. Gowen, M. Inam-ul-Haq, S.A. Anwar. 2007. Protective and curative effect of neem (*Azadirachta indica*) formulations on the development of root-knot nematode *Meloidogyne javanica* in roots of tomato plants. *Crop Protection* 26 (2007) 530–534.
- Javed, N. S., A. Anwar, M. Inam UL-Haq and R. Ahmad. 2007. Mortality of second stage juveniles of *Meloidogyne javanica* by aqueous and ethanol neem extracts. *Pak. J. Nematol.*, 25 (1): 181-187.

Department of Plant Breeding and Genetics

2006

- Alvi, A.W., I.A. Khan, M.A. Bhatti and M. Ayub. 2006. Contribution of lines and testers to the total heterosis observed in maize hybrids. *Agric. Sci. J. Pak.* 3(2): 51-54.
- Alvi, A.W., I.A. Khan, M.A. Bhatti and M. Ayub. 2006. Genetic analysis for stalk rot resistance and grain yield components in maize. *Agric. Sci. J. Pak.* 3(1): 43-46.
- Anees, M.A., I.A. Khan, H.A. Sadaqat and M.H.N. Tahir. 2006. Genetic analysis of some yield and quality related characters in F₁ generation of cotton. Accepted for Publication in *Int. J. Agric. & Biol.*
- Anees, M.A., I.A. Khan, H.A. Sadaqat and M.H.N. Tahir. 2006. Path coefficient analysis of some yield and quality related characters in F₂ generation of 8x8 diallel crosses in cotton. Accepted for Publication in *Int. J. Agric. & Biol.*
- Ashraf, M.I., N. Muhammad and I.A. Khan. 2006. Combining ability variation for economic traits in upland cotton. *Sci. Int. (Lahore)*. 18(2): 149-51.
- Aslam, M., I.A. Khan, M. Saleem and Z. Ali. 2006. Assessment of water stress tolerance in different maize accessions at germination and early growth stage. *Pak. J. Bot.*, 38(5):1571-79.
- Bhati, M.A., F.M. Azhar and A.W. Alvi. 2006. Estimation of additive, dominance and epistatic components of genetic variation in fibre quality characters of up-land cotton grown in salinized conditions. *J. Agri. & Biol.* 824-27.
- Bhati, M.A., F.M. Azhar, A.W. Alvi and M. Ayub. 2006. Triple test cross analysis of seed cotton (*Gossypium hirsutum* L.) yield and its components grown in salinized conditions. *J. Agri. & Biol.* 820-23.
- Hussain, T., I.A. Khan, M.A. Malik and Z. Ali. 2006. Breeding potential for high temperature tolerance in corn (*Zea mays* L.). *Pak. J. Bot.*, 38(4): 1185-95.
- Khan, F.A., S. Ali, A. Shakeel, A. Saeed and G. Abbas. 2006. Genetic variability and genetic advance analysis for some morphological traits in *Brassica napus* L. *J. Agric. Res.*, 44(2).
- Khan, F.A., S. Ali, A. Shakeel, A. Saeed and G. Abbas. 2006. Correlation analysis of some quantitative characters in *Brassica napus* L. *J. Agric. Res.* 44(1).
- Kokhar, M.I., H.A. Sadaqat and M.H.N. Tahir. 2006. Association and effect of yield related traits on achene yield in sunflower. *Int. J. Agri. Bio.* 8(4): 450-51.
- Malik, T.A., Sana-Ullah, M. Ashraf and S. Malik. 2006. Genetic linkage studies of drought tolerant and agronomic traits in cotton. *Pak. J. Bot.*, 38(5): 1613-19.
- Rauf, S. and F.A. Khan. 2006. Current trends in onion breeding. *Iranian. J. Hort. Crop Sci.* 7(2/3).
- Rauf, S., I.A. Khan and F.A. Khan. 2006. Colchicines-Induced tetraploidy and changes in allele frequencies in colchicines-treated population of diploids assessed with RAPD maker in *Gossypium arboreum* L. *Turk J. Biol.* 30: 93-100.
- Shahid, M.A., M.A. Perrez, R. Mukhtar, F.A. Khan and A.S. Wahla. 2006. Estimation of genetic mechanism of quantitative traits in upland cotton. *The Indus Cotton.* 3(1): 293-97.
- Shahid, M.A., M.A. Pervez, R. Mukhtar, F.A. Khan and A.S. Wahla. 2006. Combining ability analysis in upland cotton. *The Indus Cotton.* 3(1): 275-80.
- Tahira and A.S. Khan. 2006. Assessment of variation for NaCl tolerance in spring wheat (*Triticum aestivum* L.). *Int. J. Agri. Biol.* 8(6): 867-71.
- Tahira and A.S. Khan. 2006. Genetic study of root length in spring wheat (*Triticum aestivum* L.) under salinity. *Int. J. Agri. Biol.* 8(6): 812-14.
- Xianxi, Y., S. Khan, T. Hase, M.J. Emes and C.G. Bowsher. 2006. Differential uptake of photosynthetic and non-photosynthetic proteins by pea root plastide. *FEBS Letter* 580(27): 6509-12.
- Zahoor, M.K., A. Sohail, F.S. Awan and I.A. Khan. 2006. Random amplified polymorphic DNA (RAPD) based molecular characterization of scarab beetles from Pak. *J. Appl. Entomol.* (in press).

Zia, M.A., K. Rahman, M.A. Sheikh, I.A. Khan, M.K. Saeed and A.I. Khan. 2006. Thermal characterization of purified glucose oxidase from a newly isolated *Aspergillus niger* UAF I. J. Process Biochem. (in press).

2007

- Ali, Z., A. Salam, F.M. Azhar and I.A. Khan. 2007. Genotypic Variation in salinity tolerance among spring and winter wheat (*Triticum aestivum* L.) accessions. South African J. Bot. 73:70-75.
- Ashraf, M.I., and I.A. Khan. 2007. Expression of heterosis for some economic traits in upland cotton (*G. hirsutum* L.). Sci. Int. (Lahore) 19(1): 59-60.
- Azhar, F.M., A.A. Khan and M. Saleem. 2007. Genetic mechanisms controlling salt tolerance in *Gossypium hirsutum* L. seedlings. Pak. J. Bot. 39(1): 115-21.
- Haider, S., I.A. Khan, S. Mansoor and Y. Zafar. 2007. Inheritance studies of bacterial blight disease resistance genes in cotton (*Gossypium hirsutum* L.) Pak. J. of Bot., 39(2): 603-608.
- Khan, A.I., M. Hussain, S. Rauf, T.M. Khan. 2007. Inheritance of resistance to cotton leaf curl virus in cotton (*Gossypium hirsutum* L.). Plant Protect. Sci., 43: 5-9.
- Khan, F.A., F.M. Azhar, I. Afzal. 2007. Effect of nitrogen regimes on combining ability variation in oil and protein content in cotton (*Gossypium hirsutum* L.). Plant Prod. Sci. 10(3).
- Malik, T.A., A. Iqbal, M.A. Chowdhry, M. Kashif and S. Rahman. 2007. DNA marker for leaf rust disease in wheat. Pak. J. Bot., 39(1): 239-43.
- Muni, M., M.A. Chowdhry and T.A. Malik. 2007. Correlation studies among yield and its components in bread wheat under drought conditions. Int. J. Agric. Biol. 9(2): 287-90.
- Munir, M., M.A. Chowdhry and M. Ahsan, 2007. Generation means studies in bread wheat under drought condition. Int. J. Agri. Biol. 9: 282-86.
- Sarwar, G. and I.A. Khan. 2007. Genetic diversity/ impurity estimation in sources of natural resistance against cotton leaf curl disease in Pakistan. Sci. Int. (Lahore), 19(1): 45-49.
- Tassawar, H., I.A. Khan, Z. Ali. 2007. Study of gene action and combining abilities for thermotolerant abilities of corn (*Zea mays* L.). Int. J. Plant Prod. 1(1): 1-12 GUASNR, Iran.

Department of Agronomy

2006

- Ahmad, A.H., R. Ahmad, N. Mahmood and M.S. Nazir. 2006. Competitive performance of associated forage crops grown in different forage sorghum-legume intercropping systems. Pak. J. Agri. Sci. 43(1-2):
- Ali, A., M.A. Nadeem, M. Maqbool and M. Ejaz. 2006. Effect of different levels of potash on growth, yield and protein contents of mungbean varieties. J. Agric. Res. 44(2): 121-126.
- Iqbal, A., M. Ayub, N. Akbar and R. Ahmad. 2006. Growth and forage yield response of maize legume mixed cropping to different sowing techniques. Pak. J. Agri. Sci. 43(3-4).
- Iqbal, A. M. Ayub, H. Zaman and R. Ahmad. 2006. Impact of nutrient management and legume association on agro-qualitative traits of maize forage. Pak. J. Bot., 38(4): 1079-1084.
- Malik, M.A., M.A. Cheema, H., Z.Khan and M. A.Wahid. 2006. Growth and yield response of soybean (*Glycine max* L.) to seed inoculation and varying phosphorus levels. J.A.R. 44(1): 47-53.
- Malik, M.A., M.F. Saleem, A. Ali, and R.A.F. Ishaq. 2006. Effect of sowing dates and planting patterns on growth and yield of mungbean (*Vigna radiate* L.). J. Agri. Res. 44(2): 139-145.
- Malik, M.A., M.F. Saleem, H., Z.Khan and M. A. Haider. 2006. Growth and yield response of Mashbean (*Vigna mungo* L.) cv Mash-97 to sowing dates and planting pattern. Agri. Sci. J. Pak. 3(1): 4-7.
- Maqbool, M.M., A. Tanveer, Z. Ata and R. Ahmad. 2006. Growth and yield of maize (*Zea mays* L.) as affected by row spacing and weed competition durations. Pak. J. Bot. 58(4): 1207-1236.
- Nadeem, M.A., A. Ali and A. Tanveer. 2006. Effect of different weed control practices and fertilizer levels on the weeds and grain yield of wheat. Pak. J. Bot. 38(1): 173-182.

2007

- Aftab Wajid, A.Ghaffar, M. Maqsood, K. Hussain and W. Nasim. 2007. Yield response of maize hybrids to varying nitrogen rates. Pak. J. Agri. Sci., Vol. 44 (2), 2007.

- Aftab Wajid, K. Hussain, M. Maqsood, A. Ahmad and A. Hussain. 2007. Influence of drought on water use efficiency in wheat in semi arid region of Pakistan. Pak. J. Soil. Sci., Vol. 26(1), 2007.
- Aftab Wajid, K. Hussain, M. Maqsood, A. Ahmad and M. Ibrahim. 2007. Water use efficiency as affected by cultivars and irrigation regimes. Pak. J. Agri. Sci. 44(3-4):
- Aftab Wajid, M. Arshad, M. Maqsood, K. Hussain and M. Ibrahim. 2007. Response of growth, yield and quality of different cotton cultivars to sowing dates. Pak. J. Agri. Sci., Vol. 44 (2), 2007.
- Aftab Wajid, M. Maqsood, A. Hussain, K. Hussain and A. Ghaffar. 2007. Simulation modeling of growth, development and grain yield of wheat under semi arid conditions of Pakistan. Pak. J. Agri. Sci., Vol. 44 (2), 2007.
- Ahmad, A.H., R. Ahmad, N. Mahmood and A. Tanveer. 2007. Performance of forage sorghum intercropped with forage legumes under different planting patterns. Pak. J. Bot. 39(2): 431-439.
- Ali, A., M.A. Nadeem, A. Tanveer, M. Tahir and M. Hussain. 2007. Effect of different potash levels on growth, yield and protein contents of chickpea (*Cicer arietinum* L.). Pak. J. Bot. 39(2): 523-527.
- Anjum, F.H., A. Tanveer, R. Ahmad, A. Ali, M.A. Nadeem and M. Tahir. 2007. Response of cotton split application of nitrogen and weed control methods. Indian J. Agric. Sci. 77(3): 137-202.
- Azraf-ul-Haq Ahmad, Riaz Ahmad, Naeem Mahmood and A. Tanvir. 2007. Performance of forage sorghum intercropped with forage legumes under different planting patterns. Pakistan J. Botany 39(2): 431-439.
- Maqsood, M. and S.N. Azam Ali. 2007. Effect of drought on growth, development, radiation use efficiency and yield of finger millet. Pak. J. Bot. 39(1): 2007.
- Maqsood, M. and S.N. Azam Ali. 2007. Effect of environmental stress on growth, radiation use efficiency and yield of finger millet. Pak. J. Bot. 39(2): 2007.
- Munir, M.A., M.A. Malik, and M. Yaseen. 2007. Performance of sunflower in response to nitrogen management at different stages. Pak. J. Agri. Sci., 44(1): 12-15.
- Munir, M.A., M.A. Malik, and M.F. Saleem. 2007. Impact of integration of crop manuring and nitrogen application on growth, yield and quality of spring planted sunflower (*Helianthus annuus* L.) Pak. J. Bot., 39(2): 441-449.

Department of Forestry, Range Management and Wildlife

Research papers published 8

FACULTY OF AGRI. ECONOMICS & RURAL SOCIOLOGY

Department of Agricultural Economics

2006

- Mushtaq, K. 2006. Population Growth and Economic Development: Test for Causality. The Lahore Journal of Economics Vol. 11, No.2, Jul-Dec, 2006.
- Ali, T, S. Hassan, K. Mushtaq and K. Bukhsh. 2006. Optimal Hedging ratio for Pakistan's wheat Imports. International Journal of Agriculture & Biology Vol. 8, No.1.
- Mushtaq, K. F. Abbas, Abedullah and A. Ghafoor. 2006. Testing the law of one price: rice market integration in Pakistan's Punjab. Pakistan Journal of Agricultural Sciences, Vol.43 (No.3-4).
- Abedullah, S. Kausar, K. Mushtaq and M. Muzhar. 2006. Role of credit to enhance cotton production in Punjab, Pakistan: Pakistan Journal of Agricultural Sciences, Vol.43 (No.3-4)
- Javed, M.S., S. Hassan, S.A. Adil, A. Ghafoor, K. Bukhash and A. Siddique. 2006. Comparative advantage of cotton production and its policy implications in Pakistan. Pak. J. Agri. Sciences, Vol.43 (324).
- Bukhash, K., B. Ahmad, Z.A. Gill, S. Hassan and S.A. Adil. 2006. Determinant of radish yield: A case study of Punjab, Pakistan. Pak. J. Agri. Sciences, Vol.43 (324).
- Javed, M.S., S. Hassan, S.A. Adil, A.S. Ahmad, M, W, A, Chatha and Z. Nawaz. 2006. Impact assessment of micro credit programme of PRSP on crop productivity. Pak. J. Agri. Sciences, Vol.43 (324).

2007

- Mushtaq, K, A. Ghafoor and Abedullah. 2007. An examination of Calorie Demand Relationship in Pakistan: Pakistan Journal of Nutrition, Vol.6 (2).
- Adil, S.A., M.W.A.Chatha, S.Hassan and A. Maqbool. 2007. Economics of vegetable production by farm location. Pak. J. Agri. Sciences, Vol. 44(1).
- Adil, S.A., M.W.A.Chatha, K.Bukhash and S.Hassan. 2007. Profitability analysis of summer vegetables by farm size. Pak. J. Agri. Sciences, Vol. 44(1).

Department of Development Economics

2006

- Bakhsh, K., B. Ahmad, Z. A. Gill, S. Hassan and S. A. Adil. 2006. "Determinant of Radish Yield: A Case Study of Punjab, Pakistan". Pakistan Journal of Agri. Sci. Vol. 43(3-4).
- Hassan, S., K. Bakhsh, Z. A. Gill, A. Maqbool and W. Ahmad. 2006. "Economics of Growing Date Palm in Punjab, Pakistan". International Journal of Agriculture and Biology, 1560-8530/2006/08-06-788-792.
- Bakhsh, K., B. Ahmad, Z. A. Gill and S. Hassan. 2006. "Estimating Indicators of Higher Yield in Radish Cultivation". International Journal of Agriculture and Biology, 1560-8530/2006/08-06-788-792.

Papers presented and/or published at refereed "International Conferences by the Faculty members and Students during 2006-07"

2006

- Muhammad Khalid Bashir, Zeeshan Nawaz, Khuda Bakhsh, Asif Maqbool and Muhammad Waqas Alam Chattha. 2006. Food Security Perspective in Pakistan. International Conference on Productivity and Growth in Agriculture: Strategies and Interventions.
- Khuda Bakhsh, Sarfraz Hassan, Muhammad Waqas Alam Chattha, Asif Maqbool, Muhammad Khalid Bashir. 2006. Improving Vegetable Production Through Technical Efficiency. International Conference on Productivity and Growth in Agriculture: Strategies and Interventions.
- Asif Maqbool, Khuda Bakhsh, Muhammad Khalid Bashir, Muhammad Waqas Alam Chattha and Zeeshan Nawaz. 2006. WTO and Agriculture Sector of Pakistan. International Conference on Productivity and Growth in Agriculture: Strategies and Interventions.
- Amjad Farooq, Qasim Akram and Muhammad Khalid Bashir. 2006. Integrating Web-ontology in Agricultural Development Strategies. International Conference on Productivity and Growth in Agriculture: Strategies and Interventions.
- A Sustainable Development Perspective for Overcoming the Productivity & Growth Predicament in Agriculture. December 6-7, 2006. International Conference on Productivity and Growth in Agriculture: Strategies and Interventions.

2007

- Bashir, K., Masood A., and Azid, I. 2007. Prospects of Trade under SAFTA. Trade Liberalization and SAFTA: Opportunities, Challenges. University of Arid Agriculture, Rawalpindi.

Department of Environmental and Resource Economics

2006

- Abedullah and Mubarak Ali. 2006. Quantifying the Extent and Nature of Risk in Alternative Cropping Patterns in Claveria, Philippines. Journal of Pakistan Development Review, Vol. 45, No. 2. PP. 261-280.
- Abedullah, Abdul Ghafoor and Asif Maqbool. 2006. Analysis of Farmer's Tree Growing Objectives in Claveria Philippines. European Journal of Scientific Research, Vol. 15, No. 2.

- Abedullah, Shahzad Kousar, Khalid Mushtaq and Muhammad Mazhar. 2006. Determining The Role of Credit to Enhance Cotton Production in Pakistan's Punjab. *Pakistan Journal of Agricultural Sciences*, Vol. 43 (No.3-4).
- Abedullah. 2006. Sources and Consequences of Environmental Pollution and Institution's Role in Pakistan. *Journal of Applied Sciences*, 6(15), PP. 3134-3139.
- Khuda Bakhsh, Bashir Ahmad, Zulfiqar Ahmad Gill, Sarfraz Hassan and Sultan Ali Adil. 2006. Determinants of radish yield: a case study of Punjab, Pakistan. *Pakistan Journal of Agricultural Sciences*, 43:3-4, 206-08.
- Abedullah, Khuda Bakhsh and Bashir Ahmad. 2006. Technical efficiency and its determinants in potato production, evidence from Punjab, Pakistan. *The Lahore Journal of Economics*, 11 :2,1-22.
- Khuda Bakhsh, Bashir Ahmad and Sarfraz Hassan. 2006. Food security through increasing technical efficiency. *Asian Journal of Plant Sciences*, 5:6, 970-76.
- Bashir Ahmad, Khuda Bakhsh and Sarfraz Hassan. 2006. Effect of sewage water on spinach yield. *International Journal of Agriculture and Biology*, 8:3,423-25.
- Ishtiaq Hassan, Khuda Bakhsh and AsifMaqbool. 2006. Estimating the effects of WTO on cropping pattern and farm income. *International Journal of Agriculture and Biology*, 8:3,426-29.

2007

- Sultan Ali Adil, Muhammad Waqas Alam Chattha, Khuda Bakhsh and Sarfraz Hassan. 2007. Profitability analysis of summer vegetables by farm size. *Pakistan Journal of Agricultural Sciences*, 44:1, 184-88.
- Khalid Mushtaq, Faisal Abbas, Abedullah and Abdul Gafoor. 2007. Testing the Law of One Price: Rice Market Integration in Punjab, Pakistan. Vol.43 (No.3-4).
- Abedullah, A. Maqbool and Khuda Bakhsh. 2007. Issues and economics of poultry production: a case study of Faisalabad, Pakistan. *Pakistan Veterinary Journal*, 24: 1,25-28.
- Khalid Mushtaq, Abdul Gafoor and Abedullah. 2007. An examination of Calorie Demand Relationship in Pakistan. *Pakistan Journal of Nutrition*. Vol. 6. No. 2. PP. 159-162

Department of Marketing & Agribusiness

2006

- Ahmad, B. and K. Mustafa. 2006. Forecasting Kinnow Production in Pakistan: An Econometric Analysis. *International Journal of Agriculture and Biology*, Vol. 8, No. 4, p 455-458.
- Mustafa, K. and B. Ahmad. 2006. Econometric Model for Forecasting Export of Kinnow from Pakistan. *International Journal of Agriculture and Biology*, Vol. 8, No. 4, p 459-462.
- Ahmad B., K. Mustafa and Mehdi. M. 2006. Forecasting Mango Export from Pakistan: An Econometric Analysis of Time Series Data. *Science International*, Vol. 18, No. 4.
- Aurangzeb, M., Y. Bakhtyar and K. Mustafa. 2006. Factors Affecting Sugarcane Supply to Sugar Mills in Pakistan. *The Journal of Humanities and Social Sciences*. Vol. XIV, No. 2, 2006.
- Mushtaq, K, F. Abbas, Abedullah and A. Ghafoor. 2006. Testing The Law Of One Price: Rice Market Integration In Punjab, Pakistan. *Pakistan Journal of Agricultural Sciences*. Volume 43(3-4).
- Mushtaq, K,. A. Ghafoor and Abedullah. 2006. An Examination of Calorie Demand Relationship in Pakistan. *Pakistan Journal of Nutrition* 6 (2): 159-162,2007
- Ahmad, M, A. Saboor, and A Ghafoor. 2006. Estimation of Wheat Production, Forecasting and Risk Analysis *Journal Of Agriculture & Social Sciences* 1813-2235/2006/02-1-78-80.
- Abedullah, A. Ghafoor and A. Maqbool. 2006. Analysis of Farmer's Tree Growing Objectives in Claveria Philippine. *European Journal of Scientific Research*. Vol. 15. No. 2. pp 152-158.

2007

- Moazzam, M. & A. Ghafoor. 2007. Improving agricultural marketing. Article published in *Daily Dawn*, Business and Economic Review dated March 19-25, 2007.

FACULTY OF AGRI. ENGINEERING & TECH
Department of Fibre Technology

2006

Ahmad, I., M. Iftikhar and T. Mansur. 2006. Comparative study of some reactive dyes performance on cotton fabric under the processing variables dyeing time and temperature. *The Indus Cotton* 3(2):372-283.

2007

Jamil N.A., and Shahbaz, B. 2007. Analysis of physical and chemical properties of carpet type wools of Pakistan. *Proc. Textile Institute World Conference, March 1-3, 2007, Colombo Sri Lanka*

Jamil, N. A., Shahbaz, B., Tusief, M.Q. and U. Hameed. 2007. Minimizing stickiness from imported cottons by using chemical additives and their ultimate effects on textile properties of yarn. *Int. J. Agri. Biol.* 9(4), 2007. 653-656 p.

Jamil, N.A., Mahmood, N. and I. Haq. 2007. Comparative study of crosrol card MK5D versus modified card MK6 for ultimate effect on yarn quality. *Pak. J. gric. Sci.* 44(1):268-270

Mahmood, N., Jamil. N.A. amd A. Usman. 2006. Effect of roving tension controller system using different variables and their effect on yarn quality. *Pak. Text. J.* 55(10):54-57.

Nawaz S.M., Tusief, M.Q. and Abbas N. 2007. Effect of various binders upon non woven fabric formation of hollow, solid and recycled polyester blends. *Proc. Textile Institute World Conference, March 1-3, 2007, Colombo Sri Lanka*

Nawaz, S.M., Shahbaz, B. and A. Sami. 2007. Study of indigenous pumice stone substitute for denim cloth stone wash. *Proc. International Textile Education Conference, 16-18 Aug., 2007 Coimbatore, India.*

Dept. of Farm Machinery & Power

2006

Iqbal, M., Kh. Altaf Hussain, M. Iqbal, a Munir, and M. Younis. 2006. Evaluation of spray uniformity distribution by environment friendly university boom sprayer. *Pakistan Journal of Agricultural Sciences, University of Agriculture, Faisalabad, ISSN 0552-9034, 43(1-2):93-96.*

2007

Iqbal,M., Kh. Altaf Hussain, M. Ahmad, and M. Iqbal. 2007. Marketing and Economic Analysis of University Boom Sprayer. *Pakistan Journal of Agricultural Sciences, University of Agriculture, Faisalabad, ISSN 0552-9034, 44(1):154-158.*

Iqbal,M. Kh. Altaf Hussain, Matloob Ahmad, Manzoor Ahmad, M. Iqbal, and M. Ali.*Pakistan Journal of Agricultural Sciences, University of Agriculture, Faisalabad, ISSN 0552-9034, 44(1):144-167*

Sabir, M.S., Altaf Hussain, and Azam Khan. 2007. Development of Interceptor Channel and Laterals to control water logging/soil salinity at farm field (Mechanical Amendment). Department of Farm Machinery & Power, UAF, Pakistan. *Proceedings of the International Conference on Environmental Survival and Sustainability 19-24 February 2007, Near East University, Nicosia-Northern, Cyprus, Organized by Near East University.*

Department of Structures and Environmental Engineering

2006

Nasir, A., K. Uchida and J. K. Sial. 2006. Computation of Erosivity Factor with Daily Rainfall Data in Shiga Prefecture. *Proceedings of the International Conference on Agricultural Engineering – Issues and Strategies, held at University of Agriculture Faisalabad, Pakistan. February 16-18, 2006.*

- Nasir, A., Uchida, K. and Asraf M. 2006. Estimation of soil erosion by using RUSLE and GIS for Small mountainous Watersheds in Pakistan. *Pakistan Journal of Water Resources*. Vol.10(1):11-21
- Sial, J.K., Khawaja A. Hussain, and A. Shafi. 2006. Factors Affecting Fuel Efficiencies of Commercial Trucks. *Journal of Applied Science and Engineering*. NWFP University of Engineering and Technology, Peshawar. (Accepted for publication).
- Sial, J.K., Khawaja A. Hussain, and A. Shafi. 2006. Investigations of Smoke Opacity in Commercial Trucking. *Journal of Applied Science and Engineering*. NWFP University of Engineering and Technology, Peshawar. (Accepted for publication).
- Sial, J.K., Khawaja A. Hussain, and A. Shafi. 2006. Smoke Opacity Issues of Urban Wagons. *Scientific Khyber – A Biannual Journal of Science and Technology*, University of Peshawar, Pakistan. (Accepted for publication).

2007

- Sial, J.K., Khawaja A. Hussain, and A. Shafi. 2007. Fuel Efficiency of Urban Wagons. *Scientific Khyber – A Biannual Journal of Science and Technology*, University of Peshawar, Pakistan. (Accepted for publication).

Dept. of Irrigation & Drainage

2006

- Rana M.A., M. Arshad and J. M. Cheema. 2006. Effect of basin, furrow and raingun sprinkler irrigation system on irrigation efficiencies, nitrate- nitrogen leaching and yield of sunflower. *Pakistan Journal of water Resources*, Pakistan Council of Research in water Resources (PCRWR). Islamabad, Pakistan. Vol. 9(1): 17-24.

2007

- Arshad, M., J. M. Cheema and S. Ahmed. 2007. Determination of Lithology and groundwater quality using resistivity survey. *International Journal of Agriculture and Biology*, University of Agriculture, Faisalabad- Pakistan. Vol. 9(1): 143-146.
- Bakhsh, A., R.S. Kanwar and R. W. Malone. 2007. Role of landscape and hydrologic attributes in developing and interpreting yield clusters. *GEODERMA*, 140(3): 235-246.
- Bakhsh, A., R.S. Kanwar, C. Pederson, and T.B. Bailey. 2007. N- Source effects on temporal distribution of NO₃ – N leaching losses to subsurface drainage water. *Water, Air and Soil Pollution*, 181(1-4): 35-50.
- Bakhsh, A., R.S. Kanwar. 2007. Long term tillage and N-management effects on NO₃ –N leaching to subsurface drainage water, *Transaction of the ASAE* 50(4): 1189-1198.
- Niaz, A. 2007. Performance of Surge Irrigation under borders. *Pak. J. of Agri. Sciences*. Vol. 43, Issue 3-4.

FACULTY OF VETERINARY SCIENCE

Dept. of Animal Reproduction

2006

- Akhtar, M.Z., A. Khan, T. Zaman and N. Ahmad. 2006. Some clinico-epidemiological and biochemical observations of parturient haemoglobinuria in Nili-Ravi buffaloes (*Bubalus bubalis*). *Pakistan Vet. J.*, 26(4): 151-156.
- Bhatti, M.S., I. Ahmad, N. Ahmad, L.A. Lodhi and M. Ahmad. 2006. Epidemiological survey of genital prolapse in buffaloes kept under different systems. *Pakistan Vet. J.*, 26(4): 197-200.
- Ullah, M.S., M. Ahmad, N. Ahmad, M.Z. Khan and I. Ahmad. 2006. Toxic effects of cypermethrin in female rabbits. *Pakistan Vet. J.*, 26(4): 193-196.

2007

- Jamil, H., H.A. Samad, Z.I. Qureshi, N. Rehman and L.A. Lodhi. 2007. Effect of bull and sperm preparation method on in vitro fertilization of buffalo oocytes. *Pakistan Vet. J.*, 27(1): 29-34.
- Zia-ur-Rehman, N. Ahmad, Shazia Anwer Bukhari, N. Akhtar and I.U. Haq. 2007. Serum hormonal, electrolytes and trace element profiles in the rutting and non-rutting one-humped male camel (*Camelus dromedarius*). *Anim. Reprod. Sci.*, 101: 172-178.
- Qureshi, M.S., A. Nazir. 2007. Interaction of calf suckling, use of oxytocin and milk yield with reproductive performance of dairy buffaloes. *Anim. Reprod. Sci.*, (Accepted)
- Zia-ur-Rehman, B. Shazia, A. Nazir, A. Nafees, A. Ijaz, Y. Muhammad and H. Irshad. 2007. Dynamics of follicular fluid in one-humped camel. *Reprod. Domestic Anim.* (Accepted).

Dept. of Clinincal Medicine & Surgery

2006

- Ahmad. 2006. Experimental trials of live attenuated and inactivated *Staphylococcus aureus* vaccines in rabbits. *Pak. Vet. J.*, 26(2): 51-54.
- Akhtar, M. and M.A. Hafeez. 2006. Immunogenic characterization of egg adapted gametocytes of *Eimeria tenella*. *Parasitol. Res.* 99: 293-96
- Dad, R.K., A. Shakoor, M. Avais, G. Muhammad, S. Hameed and A. Shahzad. 2006. Serology based immunological cross-reactivity among various isolates of *Streptococcus agalactiae* from mastitic buffaloes. *Buffalo bulletin*, 25(3):49-53.
- Hafeez, M.A., M. Akhtar and I. Hussain. 2006. Protective effect of egg-propagated *Eimeria tenella* (local isolates) gametocytes as vaccine(s) against mixed species of coccidia in chicken. *Parasitol. Res.* 98:539-544.
- Hafeez, M.A., M. Akhtar and M, M. Ayaz. 2006. Some observations on the adaptation of *Eimeria tenella* (local isolates) sporozoites on chicken embryos through chorioallantoic membrane. *J. Vet. Sci.* 7(1):59-61.
- Hassan, M., G. Muhammad, C. Gutierrez, Z. Iqbal, A. Shakoor and A. Jabbar. 2006. Prevalence of *Trypanosoma evansi* infection in equine and camels in Punjab region, Pakistan. *Ann. N.Y. Acad. Sci.* 1080:322-324.
- Jabbar, A., Z. Iqbal, D. Kerboeuf, G. Muhammad, M. N. Khan and M. Afaq. 2006. Anthelmintic resistance: the state of play revisited. *Life Sci*, 79: 2413-2431.
- Muhammad, G., A. Jabbar, Z. Iqbal, M. Athar, and M. Saqib. 2006. A preliminary passive surveillance of clinical disease profiles of cart pulling camels in Faisalabad metropolis (Pakistan). *Vet. Prevent. Med.* 76:273-279.
- Muhammad, G., M. Saqib, and M. Athar. 2006. Fatal actinobacillosis in a dairy buffalo. *Acta Vetrinaria Brno* 75: 213-216.
- Sajjid, M. S., Z. Iqbal, G. Muhammad, and U. Iqbal, 2006. Immunomodulatory effect of various antiparasitics – a review. *Parasitol (Cambridge)* 132, 1-13.
- Shakoor, A., M. Athar, G. Muhammad, Sajjad-ur-Rehman, A.A. Butt, I. Hussain and R. Ahmad, 2006. Impact of different *Staphylococcus aureus* mastitis vaccines on the milk yield, fat and somatic cell count in buffaloes. *Pak. Vet. J.*, 26(2): 55-58

2007

- Akhtar, M. Z., A. Khan, M. Z. Khan and G. Muhammad. 2007. Haemato- biochemical aspects of parturient haemoglobinuria in buffaloes. *Turk. J. Vet. Anim. Sci.*, 31: 119-123.
- Athar, M., G. Muhammad, A. Shakoor, M. Saqib, R. Ahmad, and A. Naureen. 2007. A preliminary study on the effect of inactivated polyvalent mastitis vaccines on milk quantity and quality in dairy buffaloes. *Pak. Vet. J.*, 27(2): 13-16
- Hafeez, M.A., M. Akhtar and M. Tariq Javed. 2007. Maternal immunization by egg propagated gametocyte vaccine to control *Eimeria tenella* infections in newly hatched chicks. *Parasitol. Res.* 100:1139-1141.

- Hanif, N.Q., G. Kaukab and G. Muhammad. 2007. Effect of ochratoxin A and a toxin deactivator (Mycofix plus^{MTV INSIDE}) on humoral response to Newcastle disease, Hydropericardium syndrome and Infectious bursal disease vaccine in broilers. Biomin Brain, Austria (Accepted).
- Muhammad, G. and M. Saqib. 2007 Successful treatment of ocular equine microfilariasis (setaria species) with ivermectin. Vet. Rec. (UK) 159, 25 –26.
- Muhammad, G., A. Naureen, and M. Saqib. 2007. An atypical, fatal case of *Babesia caballi* infection in a stagecoach mare. Ind. Vet. J., (Accepted).
- Muhammad, G., M. H. Hussain, M. Saqib, M. K. Mansoor, M. N. Asi, and A. Naureen. 2007. Epidemic resurgence of a goat-specific syndrome simulating goat dermatitis in Punjab and Sindh Provinces of Pakistan. Small Ruminant Research (USA) (Accepted).
- Muhammad, G., M. Saqib, M. S. Sohail, and A. Naureen. 2007. A preliminary report on *Trypanosoma evansi* infection in charming Himalayan black bears. *J. Zoo & Wildlife Med.*, (USA) 38:97-100.
- Naureen, A, M. Saqib, G. Muhammad, M. H. Hussain and M. N. Asi. 2007. Comparative evaluation of Rose Bengal Plate Agglutination Test, mallein and some conventional serological tests for diagnosis of equine glanders. 2007. *J Vet Diagn Invest.* (USA) 2007 19: 362-367.
- Sajid, M.S., Z. Iqbal, G. Muhammad, M. Abdullah, M.N Khan, M. Saqib, and M. Umair. 2007. Effect of ivermectin on the cellular and humoral immune response of rabbits. *Life Sci.*, 80:1966-70
- Sharif, A., T. Ahmad, M. Q. Bilal, A. Yousaf, G. Muhammad, Sajjad-ur-Rehman, and F. M. Pansota. 2007. Estimation of milk lactose and somatic cell for the diagnosis of sub-clinical mastitis in dairy buffaloes. *Int. J. Agri. & Biology*, 9: 125-129.
- T. Ahmad, M. Q. Bilal, A. Yousaf, G. Muhammad, Sajjad-ur-Rehman, and F. M. Pansota, 2007. Impact of mastitis severity on mineral contents of buffalo milk. *Pak. J. Agri. Sci.*, Vol. 44(1):11-14.

Dept. of Physiology & Pharmacology

2006

- Fawwad Ahmad, Sultan Mahmood, Zia-Ur-Rahman, Muhammad Ashraf, Misbah Alam and Asia Muzaffar. 2006. Effect of feeding management of energy, protein intake and carcass characteristics of broilers during summer. *Intl. J. Agric. Biol.* 8(4): 546-549.
- Fawwad Ahmad, Sultan Mahmood, Zia-Ur-Rahman, Muhammad Ashraf, Misbah Alam and Asia Muzaffar. 2006. Effect of feeding management on thermoregulation, production performance and immunological response of broilers during summer. *Intl. J. Agric. Biol.* 8(4): 550-553.
- Javed, I., Z. Iqbal, Z.U. Rahman, F.H. Khan, F. Muhammad, B. Aslam and L. Ali. 2006. Comparative antyperlipidaemic efficacy of *Trachyspermum ammi* extracts in albino rabbits. *Pakistan Vet. J.* 26(1): 23-29.
- Javed, I., Z.U. Rahman, F.H. Khan, F. Muhammad, I. Iqbal and B. Aslam. 2006. Renal clearance and urinary excretion of Kanamycin in domestic ruminant species. *Pakistan Vet. J.* 26(1): 1.8.
- Mansur A. Sandhu, Zia U. Rahman and Sajjad U. Rahman 2006. Dynamics of Macrophages in Laying Hens during Second and Third Production Cycles after Zinc Induced Molting. *J. Poult. Sci.* 43: 286-295.
- Wajeaha, F. H. Khan and I. Javed. 2006. Bioavailability and pharmacokinetics of norfloxacin after intramuscular administration in goats. *Pakistan Vet. J.*, 26(1): 14-16
- Zia-Ur-Rahman, N. Ahmad, Shazia Anwer Bukhari, N. Akhtar and I.U. Haq. 2006. Serum hormonal, electrolytes and trace elements profiles in the rutting and non-rutting one humped male camel (*Camelus dromedarius*). *Animal Reproduction Science.* 101: 172-178.

Abstract booklet published for Pakistan association for advancement of science, lahore

2006

- Muhammad Safdar Anjum and Zia-Ur-Rahman. 2006. Animal Sciences (Animal Husbandry, Zoology, Nutrition, Marine Life and Fisheries). 34th Pakistan (SAARC) Countries Science Conference University of Veterinary and Animal Sciences, Lahore. 20th to 22nd February. Pakistan Association for the Advancement of Science, 1st Floor, Shadman Plaza, Shadman Market, Lahore.

- Muhammad Safdar Anjum and Zia-Ur-Rahman. 2006. General Sciences (Geology, Anthropology, Geography, Social Sciences and Education). 34th Pakistan (SAARC) Countries Science Conference University of Veterinary and Animal Sciences, Lahore. 20th to 22nd February. Pakistan Association for the Advancement of Science, 1st Floor, Shadman Plaza, Shadman Market, Lahore.
- Muhammad Safdar Anjum and Zia-Ur-Rahman. 2006. Plant Sciences (Botany, Agriculture and Forestry). 34th Pakistan (SAARC) Countries Science Conference University of Veterinary and Animal Sciences, Lahore. 20th to 22nd February. Pakistan Association for the Advancement of Science, 1st Floor, Shadman Plaza, Shadman Market, Lahore.
- Zia-Ur-Rahman and Muhammad Safdar Anjum. 2006. Chemical Sciences (Chemistry Pure and Applied and Chemical Engineering). 34th Pakistan (SAARC) Countries Science Conference University of Veterinary and Animal Sciences, Lahore. 20th to 22nd February. Pakistan Association for the Advancement of Science, 1st Floor, Shadman Plaza, Shadman Market, Lahore.
- Zia-Ur-Rahman and Muhammad Safdar Anjum. 2006. Mathematics and Engineering Sciences (Pure and Applied and All Branches of Engineering). 34th Pakistan (SAARC) Countries Science Conference University of Veterinary and Animal Sciences, Lahore. 20th to 22nd February. Pakistan Association for the Advancement of Science, 1st Floor, Shadman Plaza, Shadman Market, Lahore.
- Zia-Ur-Rahman and Muhammad Safdar Anjum. 2006. Medical and Veterinary Sciences (Pharmacy, Biochemistry, Medicines, Microbiology, Dentistry, Public Health and Environmental Sciences). 34th Pakistan (SAARC) Countries Science Conference University of Veterinary and Animal Sciences, Lahore. 20th to 22nd February. Pakistan Association for the Advancement of Science, 1st Floor, Shadman Plaza, Shadman Market, Lahore.

Department of Veterinary Parasitology

2006

- Abbas, R.Z., Zafar Iqbal, Muhammad Shoaib Akhtar, Muhammad Nisar Khan, Abdul Jabbar, Zia-u-Din Sandhu. 2006. Anticoccidial screening of *Azadirachta indica* (neem) in broilers. *Pharmacologyonline* 3: 365-371
- Akhtar, M., and H.M. Ishaq. 2006. Effect of coccidiosis on the humoral response of chickens vaccinated against hydropericardium syndrome. *Online Journal of Veterinary Research*. 10(1): 1-6.
- Akhtar, M., M.A. Hafeez, M.T. Javed and I. Hussain. 2006. Immunogenic characterization of egg adapted gametocytes of *Eimeria tenella*. *Parasitol. Res.* 293-296.
- Hafeez, M.A., M. Akhtar and I. Hussain. 2006. Protective effect of egg propagated *Eimeria tenella* (local isolates) gametocytes as vaccine(s) against mixed species of coccidian in chickens. *Parasitol. Res.*, 98:539-544
- Hafeez, M.A., M. Akhtar and M.M. Ayaz. 2006. Some observations on the adaptation of *Eimeria tenella* (local isolates) sporozoites on chicken embryos through chorioallantoic membrane. *J. Vet. Sci. (Korea)*, 7(1): 59-61.
- Hassan, M., G. Muhammad, C. Gutierrez, Z. Iqbal, A. Shakoor, and A. Jabbar. 2006. Prevalence of *Trypanosoma evansi* Infection in Equines and Camels in the Punjab Region, Pakistan. *Annals of The New York Academy of Sciences*, 1081: 322-324
- Iqbal, Z., M. Lateef, A. Jabbar, M.N. Ghayur and A.H. Gilani. 2006. *In vitro* and *In vivo* Anthelmintic activity of *Nicotiana tabacum* L. Leaves Against Gastrointestinal Nematodes of Sheep. *Phytotherapy Research*, 20: 46-48
- Iqbal, Z., M. Lateef, A. Jabbar, M.S. Akhtar and M.N. Khan. 2006. Anthelmintic Activity of *Vernonia anthelmintica* (L.) Willd. Seeds Against Trichostrongylid Nematodes of Sheep. *Pharmaceutical Biology*, 44: 563-567
- Iqbal, Z., M. Lateef, M.S. Akhtar, M.N. Ghayur, A.H. Gilani. 2006. *In vivo* anthelmintic activity of ginger against gastrointestinal nematodes of sheep. *Journal of Ethnopharmacology*, 106: 285-287
- Jabbar, A., M.A. Raza, Z. Iqbal and M.N. Khan. 2006. An Inventory of the Ethnobotanicals used as Anthelmintics in the Southern Punjab (Pakistan). *Journal of Ethnopharmacology*, 108: 152-154
- Jabbar, A., Z. Iqbal, D. Kerboeuf, G. Muhammad, M.N. Khan, M. Afaq. 2006. Anthelmintic Resistance: Revisited the State of Play. *Life Sciences*, 79: 2413-2431
- Jabbar, A., Zafar Iqbal, Muhammad Nisar Khan. 2006. *In vitro* anthelmintic activity of *Trachyspermum ammi* seeds. *Pharmacognosy Magazine*, 2: 126-129

- Khan, M.A., M. Sarwar, M. Nisa, M. S. Khan, S. A. Bhatti, Z. Iqbal, W. S. Lee, H. J. Lee, H. S. Kim¹ and K. S. Ki¹. 2006. Feeding Value of Urea Treated Wheat Straw Ensiled with or without Acidified Molasses in *Nili-Ravi* Buffaloes. *Asian-Australasian Journal of Animal Science*, 19: 645-650
- Khan, M.A., M.Sarwar, M. Nisa, Z. Iqbal, M.S. Khan, W.S. Lee, H.J. Lee and H.S. Kim. 2006. Chemical composition, In situ Digestion Kinetics and Feeding Value of Oat Grass (*Avena sativa*) Ensiled with Molasses for Nili-Ravi Buffaloes. *Asian-Australasian Journal of Animal Science*, 19: 1127–1133
- Khan, M.N., Z. Iqbal, M.S. Sajid, M. Anwar, G.R. Needham, M. Hassan. 2006. Bovine hypodermosis: Prevalence and economic significance in southern Punjab, Pakistan. *Veterinary Parasitology*, 141: 386-390
- Lateef, M. Z. Iqbal, A. Jabbar, M.N. Ghayur and A.H. Gilani. 2006. *In vivo* anthelmintic activity of *Butea monosperma* against trichostrongylid nematodes in sheep. *Fitoterapia* 77: 137–140
- Lateef, M. Z. Iqbal, M.N. Khan, A. Jabbar and M.S. Akhtar. 2006. Anthelmintic Activity of *Swertia chirata* Buch-Ham. whole plant against Gastrointestinal Nematodes of Sheep. *Fitoterapia*, 77: 463–465
- Lateef, M., Z. Iqbal, M.S. Akhtar, A. Jabbar, M.N. Khan and A.H. Gilani. 2006. Preliminary screening of *Trachyspermum ammi* (L.) seed for anthelmintic activity in sheep. *Tropical Animal Health and Production*, 38: 491-496
- Muhammad, G., A. Jabbar, Z. Iqbal, M. Athar and M. Saqib. 2006. A Preliminary Passive Surveillance of Clinical Disease Profiles of Pneumatic Cart Pulling Camels in Faisalabad Metropolis (Pakistan). *Preventive Veterinary Medicine*, 76: 273–279
- Saddiqi, H.A., Abdul Jabbar, Zafar Iqbal, W. Babar, Z. Sandhu, R.Z. Abbas. 2006. Comparative efficacy of five anthelmintics against trichostrongylid nematodes of sheep. *Canadian J. Anim. Sci.*, 86: 471-477

2007

- Iqbal, Z., Muhammad Sarwar, Abdul Jabbar, Shahbaz Ahmed, Mahr-un-Nisa, Muhammad Sohail Sajid, Muhammad Nisar Khan, Kamran Aftab Mufti and Muhammad Yaseen. 2007. Direct and Indirect Anthelmintic Effects of Condensed Tannins in Sheep. *Veterinary Parasitology*, 144: 125-131
- Khan, M.N., M.S. Sajid, Z. Iqbal and M. Anwar. 2007. Emergence season of warbles caused by *Hypoderma lineatum* in Southern Punjab-Pakistan. *Animal Science Journal (Japan)*, 78: 206-210
- Saeed, M., Zafar Iqbal and Abdul Jabbar. 2007. Oxfendazole Resistance in Gastrointestinal Nematodes of Beetal Goats at Livestock Farms of Punjab (Pakistan). *Acta Vet. Brno*, 76: 79-85
- Sajid, M.S., Z. Iqbal, G. Muhammad and M. U. Iqbal, 2006. Immunomodulatory effect of various antiparasitics: a review. *Parasitology*, 132: 301–313
- Sajid, M.S., Zafar Iqbal, Ghulam Muhammad, Mansur Abdullah Sandhu, Muhammad Nisar Khan, Muhammad Saqib, Muhammad Umair Iqbal. 2007. Effect of ivermectin on the cellular and humoral immune responses of rabbits. *Life Sciences (In Press)*
- Shah, A.H., M.N. Khan, Z. Iqbal, M.S. Sajid and M.S. Akhtar. 2006. Some epidemiological aspects and vector role of tick infestation on layers of district Faisalabad (Pakistan). *World's Poultry Science Journal*, 62:145-57

Papers/extended abstracts published in abstract books/conference proceedings

2006

- Abbas, R.Z., Z. Iqbal, M.S. Akhtar, M.N. Khan, A. Jabbar and Z.D. Sindhu. 2006. Anticoccidial screening of *Azadirachta indica* (Neem) in broilers. First International Symposia about Pharmacology of Natural Products and BLACPMA organized by Cuban Society of Pharmacology, held at Hotel Club Amigo Varadero, Havana, Cuba on November 20-24, 2006. (pp: 61)
- Hafeez, M.A., M. Akhtar, M.T. Javed, A.U. Haq and M. Irfan Anwar. 2006. Maternal immunization by egg propagated gametocyte vaccine to control *Eimeria tenella* infections in newly hatched chicks. Proc. 3rd National Conference on Agriculture and Animal Sciences held at Sind Agriculture University, Tandojam, Pakistan. November 21-23, 2006.
- Khan, M.N., SAJID, M.S., Iqbal, Z., Anwar, M. and Needham, G.R. 2006. Prevalence of hypodermosis in Southern Punjab-Pakistan. Proceedings of XIIth AAAP Animal Science Congress 2006, Bexco,

Busan, Korea organized by Korean Society of Animal Science and Technology from September 18–22, 2006, P. 60.

- Maqsood, T.S., Z. Iqbal, A. Jabbar, Z.D. Sindhu and R.Z. Abbas. 2006. Documentation of Ethanoveterinary Practices and evaluation of *Azadirachta indica* for treatment of sheep mange in “XIIth AAAP Animal Science Congress 2006” organized by Korean Society of Animal Science and Technology held at BEXCO, Busan, Korea on September 18-22, 2006. (pp:104)
- SAJID M.S., Hussain, M.A., Khan, M.N., Iqbal, Z. and Arshad, M. 2006. Bovine Pediculosis: Prevalence and Chemotherapeutic control in Central Punjab (Pakistan). 3rd International Congress on Phthiraptera, from October 16–20, 2006, Buenos Aires, Argentina, p. 116.
- Shamim, A., M.A. Zaman, Z. Iqbal, A. Jabbar, R.Z. Abbas and Z.D. Sindhu. 2006. Efficacy of *Chenopodium album* (Bathu) against gastrointestinal tract nematodes. 3rd National Conference on Agriculture and Animal Sciences organized by Sindh Agriculture University, Tandojam on November 21st–23rd, 2006 (pp: 22)
- Zaman, M.A., Z. Iqbal, A. Jabbar, M.N. Khan, R.Z. Abbas, M.S. Sajid and Z.D. Sindhu. 2006. Efficacy of *Caeslapinia crista* (Kranjwa) against gastrointestinal tract nematodes. 3rd National Conference on Agriculture and Animal Sciences organized by Sindh Agriculture University, Tandojam on November 21st–23rd, 2006 (pp: 33)

2007

- Iqbal, Z. and SAJID, M.S. 2007. Medical Importance of Insects in Transmission of Diseases-An Overview. Proceedings of National Workshop on “Role of Insect Taxonomy and Systematics in Sustainable Agriculture” February 13-14, 2006, Islamabad, Pakistan, Page 45–50, ISBN No. 969-8542-04-3, Printing Corporation of Pakistan, Islamabad, Pakistan

Department of Veterinary Pathology

2006

- Akhtar, M. Z., A. Khan, T. Zaman and N. Ahmad. 2006. Some Clinico-Epidemiological and Biochemical Observations of Parturient Haemoglobinuria in Nili-Ravi Buffaloes (*Bubalus bubalis*). *Pakistan Veterinary Journal*, 26 (4): 151- 156.
- Halper, J., B. Kim, A. KHAN, J. H. Yoon and P.O. E. Mueller. 2006. Equine systemic proteoglycan accumulation: Degenerative suspensory ligament desmitis as a systemic disorder. *BMC Veterinary Research*, 2006, 2:12.
- Khan, A., M. A. Sultan, M. A. Jalvi and I. Hussain. 2006. Risk factors of lamb mortality in Pakistan. *Animal Research*, 55: 301-311.
- Khan, A., M. S. Mahmood and M. Z. Khan, 2006. Effects of Formalin Feeding or Administering into the Corps of White Leghorn Cockerels on Hematological and Biochemical Parameters. *Poultry Science*, 85: 1513-1519.
- Khan, M. Z. and A. Khan. 2006. Basic facts of mastitis in dairy animals: A review. *Pakistan Veterinary Journal*, 26 (4): 204-208.
- M. Tariq Javed, M. Usman, M. Irfan and Monica Cagiola. 2006. A Study on Tuberculosis in Buffaloes: Some Epidemiological Aspects Along with Haematological and Serum Protein Changes. *Veterinarski Arhiv*, (Republic of Croatia) 76(3): 193-206.
- Zaman, T., A. Khan and M. Z. Akhtar. 2006. Some of the risk factors of Nili-Ravi buffalo (*Bubalus bubalis*) neonatal calf mortality in Pakistan. *Pakistan Veterinary Journal*, 26 (3): 121-125.

2007

- M. Ilyas, M.K. Saleemi, F. Mahmood and M. Z. Khan. 2007. Pathological effects of feeding cottonseed meal with and without lysine in male japanese quails (*Coturnix Japonica*). *Pakistan Vet. J.*, 27(2):55-62.
- Mushtaq I., F.Rizvi and M. S. Ullah. 2007. Effect of pigeon origin Newcastle disease virus on various enzymes and associated pathological changes in experimentally infected pigeons. *Pak. Vet. J.*, (4) 26: 171-175.

Department of Veterinary Microbiology

2006

M.S. Mahmood, M. Siddique, I. Hussain, A. Khan and M.K. Mansoor. 2006. Protection capability of recombinant plasmid DNA vaccine containing VP2 gene of very virulent infectious bursal disease virus in the chickens adjuvanted with CpG-ODN. *Vaccine* 24:4838-46.

2007

E.Yaqoob, I.Hussain and S.U.Rahman. 2007 Molecular characterization by using random amplified polymorphic DNA (RAPD) analysis of salmonella enteritidis isolates recovered from avian and human sources. *Pakistan Vet. J.*27(2) 102-104.

H. A. Khan, M. Siddique, M. J. Arshad, Q. M. Khan and S. U. Rehman. 2007. Sero-Prevalence of Peste des petits Ruminants (PPR) Virus in sheep and goats in Punjab Province, Pakistan. *Pakistan Vet. J.* 27(3): 85-87.

I. Hussain, M. S. Mahmood, M. Akhter and A. Khan. 2007. Prevalence of *Campylobacter* species in meat, milk and other food commodities in Pakistan. *Food Microbiology* 24: 219-222.

M. A. Shahid, M. Siddique, S. U. Rahman, S. Hameed and A. Hussain. 2007. Evaluation of a Microbiological Growth Assay as a Screening test for the Presence of Antibiotic Residues in Poultry meat. *American Journal of Food Technology* 2(5): 457-461.

M. H. Rasool and I. Hussain. 2006. Preparation and evaluation of vero-cell infectious bursal disease vaccine in Pakistan. *Vaccine* 24:2810-14.

M. Imran, M. Arshad, M. A. Shahid and M. Ashraf. 2007. Studies on carrier status of *Pasteurella multocida* in healthy cattle and buffalo in district Faisalabad. *International Journal of Dairy Science* 2(4): 398-400.

M.A. Chishty, M. Arshad, M. Avais, S. Hameed and M. Ijaz. 2007. Cross-sectional epidemiological studies on mastitis in cattle and buffaloes of Tehsil Gojra, Pakistan. *Buffalo Bulletin* 26(2): 50-55.

FACULTY OF ANIMAL HUSBANDRY

Dept. of Animal Breeding & Genetics

2006

Akhtar P., A. Hussain, S. Ali, and M. Younas. 2006. Genetic factors influencing different body weights of Thalli sheep in Pakistan. *J. Anim. Sci.*, Vol. 84, Suppl.1 /*J. Dairy Sci.*, Vol. 89, Suppl. 1. pp. 445-446.

Ali. S., A. Hussain, P. Akhtar, M. Younas and M.A. Khan. 2006. Relationship of Birth Weight of Lambs with the Age of Ewes at service in Rambouillet sheep. *Pakistan Vet. J.* 26(4):187-189.

F. Hassan, S. Ali, M. S. Khan, M. S. Rehman and Y. Zafar. 2006. Phylogenetic relationship among different horse breeds in Pakistan based on random amplified polymorphic DNA (RAPD) analysis. 57th EAAP annual meeting, Antalya, Turkey (Sept. 17-20, 2006). G3 Session 3. [http://www.eaap.org/Antalya/sessions/G3_session_03.htm]

Hussain A., P. Akhtar, S. Ali, and M. Younas. 2006. Estimation of Breeding Values of different body weights of Thalli sheep in Pakistan. *J. Anim. Sci.*, Vol. 84, Suppl.1 /*J. Dairy Sci.* Vol., 89, Suppl. 1. pp. 446.

Hussain, A., P. Akhtar, S. Ali, M. Younas and K. Javed. 2006. Inbreeding effects on Post-Weaning growth traits of Thalli sheep in Pakistan. *Pak. J. of Agri. Sci.*, 43(1-2):89-92.

Hussain, A., P. Akhtar, S. Ali, M. Younas And M. Shafiq. 2006. Effect on Inbreeding on pre-weaning growth traits in Thalli sheep. *Pakistan Vet. J.*26(3):138-140.

Kalsoom U., P.Akhtar, M. Yaqoob, and M. Manzoor. 2006. Factors affecting some growth traits of Nili Ravi Buffalo heifers in Pakistan. 8th World Congress on applied genetics to livestock. Brazil.

M. K. Bashir and M. S. Khan. 2006. Genetic parameters of some performance traits of Nili-Ravi buffaloes in Pakistan. *Proc. XII AAAP Animal Science Congress 2006*, September, Busan, Korea.p-305

2007

- A. A. Bhatti, M. S. Khan, Z. Rehman, A. U. Hyder and F. Hassan. 2007. Selection of Sahiwal cattle bulls on pedigree and progeny. *Asian-Aust. J. Anim. Sci.* 20(1):12-18.
- Akhtar P., M. Abdullah, M. Younas and M. Aslam. 2007. Heritability estimates of some growth traits of Hissardale sheep in Pakistan. *Ind J. Anim Sci.*, 77 (2): 65-67
- M. K. Bashir, M. S. Khan, S. A. Bhatti and A. Iqbal. 2007. Lifetime performance of Nili-Ravi buffaloes in Pakistan. *Asian-Aust. J. Anim. Sci.* 20 (5):661-668.
- M. S. Khan, A. A. Bhatti, S. A. Bhatti and M. Ashiq. 2007. Semen Production and Productive life of Sahiwal Bulls - Relationship with Genetic worth. *Pakistan Vet. J.* 27(1):20-24.
- M. S. Khan, A. Ali, A.U. Hyder and A.I. Chatta. 2007. Effect of inbreeding on performance traits of Beetal goats in Pakistan. *Archives of Animal Breeding* 50(2):197-203.
- M. S. Khan, F. Hassan, M. S. Rehman, A. U. Hyder and I. R. Bajwa. 2007. Genetic control of milk yield from lactations of different duration in Nili-Ravi buffaloes. *Archives of Animal Breeding* 50: (MS06/82 accepted).
- S. A. Bhatti, M. Sarwar, M. S. Khan and S.M.I. Hussain. 2007. Reducing the age at calving through nutritional manipulations in dairy buffaloes and cows: a review. *Pakistan Vet. J.* 27(1):42-47.

Dept. of Livestock Management

2006

- Ali, S., A. Hussain, P. Akhtar, M. Younas, and M.A. Khan. 2006. Relationship of birth weight of lambs with age of ewes at service in Rambouillet Sheep. *Pak. Vet. J.* 26(4):187-189.
- Bilal, M.Q., M. Suleman and A. Raziq. 2006. Buffalo: Black Gold of Pakistan. *Livestock Research Rural Development.* (18): 09.
- Hussain, A., P. Akhtar, S. Ali, M. Younas and M Shafiq. 2006. Effect of inbreeding on pre-weaning growth traits in Thalli Sheep. *Pak. Vet. J.* 26(3):138-140.
- Hussain, A., P. Akhtar, S. Ali, M. Younas, and K. Javed. 2006. Inbreeding effects on post-weaning growth traits of Thalli Sheep in Pakistan. *Pak. J. Agri. Sci.* 43(1-2):1-4.
- Ishaq, K., M.Q. Bilal, M. Yaqoob, J.I. Sultan, and M. Younas. 2006. Effect of superphosphate as phosphorous supplement on dry matter intake and weight gain of Sahiwal calves. *Pakistan. Vet. J.*, 26(1):49-50.
- Mahfooz, A., M. Abubakar, M.Q. Bilal and T. Ahmad. 2006. Prevalence and chemotherapy of gastrointestinal parasites in camels in and around Faisalabad, Pakistan. *Pakistan. Vet. J.* 26(4): 209-210.
- Moeen-ud-Din, N. Ahmad, A.Iqbal and M. Abdullah. 2006. Evaluation of different formulae for weight estimation in Beetal, Teddi and Crossbreed (Beetal X Teddi) goats. *J. Anim. Plant Sci.* 16 (3-4): 70-74.
- Raziq, A. and M. Younas. 2006. White Camels of Balochistan. *Sci. Int.* 18(1):51-52.

2007

- Ahmad, T., M.Q. Bilal, S. Ullah, Zia-ur-Rahman and G. Muhammad. 2007. Impact of mastitis severity on mineral content of buffalo milk. *Pak. J. Agri. Sci.*, 44(1):176-178.
- Akhtar, P., M Abdullah, M. Younas, and M.A. Mirza. 2007. Heritability estimates of some growth traits of Hissardale sheep in Pakistan. *Indian J. of Animal Sciences*, 77(2):181-183.
- Avais. M., G. Muhammad, A. Shahzad, M. Q. Bilal. and S. Hameed. 2007. Dose dependent antigenic response to composite formalin-inactivated *Staphylococcus aureus*, *Streptococcus agalactiae* and *Escherichia coli* in rabbits. *Int. J. Agri. Biol.* 9 (4).
- Bashir, M.K. , M.S. Khan, S.A. Bhatti and A. Iqbal. 2007. Lifetime performance of Nili-Ravi buffaloes in Pakistan. *Asian Aust. J. Anim. Sci.* Vol. 20(5): 661-668.
- Cain, P., M. Anwar and P. Rowlinson. 2007 Assessing the critical factors affecting the viability of small-scale dairy farms in the Punjab region of Pakistan to inform agricultural extension programmes *Agricultural Systems.* 94(2): 320-330
- Sharif, A., T. Ahmad, M.Q.Bilal, A.Yousaf, G.Muhammad, S.Rehman and F.M.Pansota 2007. Estimation of milk lactose and somatic cells for the diagnosis of Sub-clinical mastitis in dairy buffaloes *Int. J. Agri. Biol.* 9(2): 267-270

**Dept. of Poultry Husbandry
2006**

- Ahmad, F., S. Mahmood, Z. Rehman, M. Ashraf, M. Alam and A. Muzaffar. 2006. Effect of feeding management on energy, protein intake and carcass characteristics of broiler during summer. *Int. J. Agri. Biol.*, 8(4): 546-549.
- Ahmad, F., S. Mahmood, Z. Rehman, M. Ashraf, M. Alam and A. Muzaffar. 2006. Effect of feeding management on thermoregulation, production performance and immunological response of broilers during summer. *Int. J. Agri. Biol.* 8(4): 550-553.
- Akhtar, M., M. A. Hafeez, F. Muhammad and A. Haq. 2006. Immunomodulatory and protective effect of sugar cane juice in chickens. Accepted for publication in *Parasitology Research*.
- Hafeez, M. A., M. Akhtar, M. T. Javed and A. Haq. 2006. Maternal immunization by egg propagated gametocyte vaccine to control *Eimeria tenella* infections in newly hatched chicks. Accepted for publication in *Parasitol Res.* Springer.
- Javed, M. T., M. K. Saeed, M. Akhtar, M. Bashir and A. Haq. 2006. Effect of ethanol on relative weight to body weight of different organs and on FCR in quail (*Coturnix coturnix japonica*). Accepted for publication in *Czech J. Anim. Sci.*
- Mahmood, S., M. A. Khan, M. Sarwar and M. Nisa. 2006. Chemical treatments to reduce antinutritional factors in Salseed (*Shorea rubusta*) meal: Effect on nutrient digestibility in colostomized hens and intact broilers. *Poultry Science* 85: 2207-2215.
- Mahmood, S., S. Hassan, R. Kausar, M. Ashraf and M.S. Anjum. 2006. Effect of feed withdrawal during hot hours of the day on dressing characteristics and some blood parameter in broilers. *Pak. J. Sci., Res.*, 58: 46-48.

Proceedings

2006

- Hafeez, M. A., M. Akhtar, M T. Javed, A. Haq and M. I. Anwar. 2006. Maternal immunization by egg propagated gametocyte vaccine to control *Eimeria tenella* infections in newly hatched chicks. *Proc. 3rd National Conf. Agric. Anim. Sci.* 21-23 Nov. 2006. Tandojam.
- Haq, A., A. Bashir, Saima, S. Rehman and K. Bashir. 2006. Effect of fiber degrading enzymes (*Chaetomium thermophile*) on production performance in old age layers. *Proc. 3rd National Conf. Agric. Anim. Sci.* 21-23 Nov. 2006. Tandojam.
- Haq, A., K. Ihsan, S. Rehman and M. K. Bashir. 2006. Effect of different levels of Kalongi (*Nigella sativa*) seeds on the meat cholesterol and antibody titer of Newcastle Disease and Infectious Bursal Disease in broilers. *Proc. XIIth AAAP Animal Science Congress 2006*, Sep. 18-22, 2006 Bexco, Busan, Korea.
- Haq, A.U., M. S. Akram, S. U. Rehman, A. Bashir and M. Yousaf. 2006. Comparison of different hatchery disinfectants on hatchery performance. *Proc. 34th All Pakistan International SAARC Countries Science Conference Lahore Pakistan (February 20-22, 2006)* Page No. 27.

Paper Presented

2006

- Haq, A. 2006. Centenary of Animal Sciences Education in the Sub-Continent. Presented on the Eve of Centenary Celebration of UAF, March 14-16, 2006.
- Haq, A., K. Ihsan and S. Rehman. 2006. Effect of different levels of Kalongi (*Nigella sativa*) seeds on the meat cholesterol and antibody titer of Newcastle Disease and Infectious Bursal Disease in broilers. Presented on the Eve of Centenary Celebration of UAF, March 14-16, 2006.

FACULTY OF SCIENCES

Department of Chemistry

2006

- Anjum, F., F. Anwar, A. Jamil and M. Iqbal. 2006. Microwave roasting effects on the physiochemical composition and oxidative stability of sunflower seed oil. *J. American Oil Chem. Soc.*, 83 (9): 777-784.
- Anwar, F., A. Jamil, S. Iqbal and M. A. Sheikh. 2006. Antioxidant activity of various plants extracts under ambient and accelerated storage of sunflower oil. *Grasas Y Aceites, Spain*. 57 (2): 189-197.
- Asad, M. J., M. Asgher*, M.A. Sheikh and J.I. Sultan. 2006. Production of *Neurospora sitophila* cellulases in solid state cultures. *J. Chem. Soc. Pak*. 28(6):590-595
- Asgher*, M., M.J. Asad and R.L. Legge. 2006. Enhanced lignin peroxidase synthesis by *Phanerochaete Chrysosporium* in solid state bioprocessing of a lignocellulosic substrate. *World J. Microbiol. Biotechnol.* 22(3): 449-453.
- Asgher*, M., S.A.H. Shah, M. Ali and R.L. Legge. 2006. Decolorization of some reactive textile dyes by white rot fungi isolated in Pakistan. *World J. Microbiol. Biotechnol.* 22(1):89-93.
- Bhatti*, H.N., A. Najma, M. Asgher, M.A. Hanif and M.A. Zia. 2006. Purification and thermal characterization of a novel peroxidase from a local chick pea (*Cicer arietinum* L.) cultivar. *Protein and Peptide Letters*, 13(8):799-804.
- Bhatti, H.N and A. Jabbar. 2006. *Inorganic Chemistry Manual*. The Caravan Book House Lahore.
- Bhatti, H.N and K. Hussain. 2006. *Experimental Physical Chemistry*. The Caravan Book House Lahore.
- Bhatti, H.N and K. Hussain. 2006. *Physical Chemistry Manual*. The Caravan Book House Lahore.
- Bhatti, H.N and K. Hussain. 2006. *Principles of Physical Chemistry*. The Caravan Book House Lahore.
- Bhatti, H.N. 2006. *Physical Chemistry Objective*. The Caravan Book House Lahore.
- Bhatti, H.N. 2006. *Test Your Chemistry*. The Caravan Book House Lahore.
- Bhatti, H.N. 2006. *Inorganic Chemistry Objective*. The Caravan Book House Lahore.
- Bhatti, H.N. and B.A. Nasir. 2006. *Modern Inorganic Chemistry*. The Caravan Book House Lahore.
- Bhatti, H.N., M. Asgher*, A. Abbas, R. Nawaz and M.A. Sheikh. 2006. Studies on kinetics and thermostability of a novel acid invertase from *Fusarium solani*. *J. Agricultural and Food Chemistry*, 54(13):4617-4623.
- Bhatti, H.N., M. Madeeha, M. Asgher* and N. Batool. 2006. Purification and thermodynamic characterization of glucose oxidase from a newly isolated strain of *Aspergillus niger*. *Canadian Journal of Microbiology*, 52:519-524.
- Iqbal, M., M. Ashraf and A. Jamil. 2006. Seed enhancement with cytokinins: changes in growth and grain yield in salt stressed wheat plants. *Plant Growth Regulation*, 50: 29-39.
- Iqbal, M., M. Ashraf, A. Jamil and Shafiq-ur-Rehman. 2006. Does seed priming induce changes in the levels of some endogenous plant hormones in hexaploid wheat plants under salt stress? *Journal of Integrative Plant Biology*, 48 (2): 181-189.
- Latif, F., M. Asgher*, Rabia Saleem, Ahmed Akrem & R.L. Legge. 2006. Purification and Characterization of a Xylanase Produced by *Chaetomium thermophile* NIBGE. *World J. Microbiol. Biotechnol.* 22(1):45-50.
- Bibi, I, H.N. Bhatti, M. Asgher, M.A.Waqar*. 2006. Efficient utilization of tea waste by *Fusarium solani* to produce glucoamylase under solid state fermentation. *J. Chem. Soc. Pak*. 28 (4):368-374.
- M.I.Rajoka; Khalil-ur-Rahman; Munazza Meraj; M.W. Akhtar and M.A. Zia. 2006. Purification and Properties of a Bovine Uricase. *Protein and Peptide Letters*. 13(4): 379-384.
- M.I.Rajoka; Khalil-ur-Rahman; Tehmina Tabish and M.A. Zia. 2006. Purification and characterization of Caprine kidney uricase, possessing novel kinetic and thermodynamic properties. *World Journal of Microbiology and Biotechnology*. DOI 10.1007/s11274-005.9034-z. 22: 289-291
- Mubeen, F., M. A. Sheikh, T. Iqbal, Q. M.Khan, K. A. Malik and F. Y. Hafeez. 2006. *In vitro* investigations to explore the toxicity of fungicides for plant growth promoting Rhizobacteria. *Pakistan Journal of Botany*.38(4): 1261-1269.
- Mubeen, F., A. Aslam, M. A. Sheikh, T. Iqbal, S. Hameed, K. A. Malik and F. Y. Hafeez. 2006. Response of wheat yield under combined use of fungicides and biofertilizer. *International Journal of Agriculture and Biology*. 8(5): 580-582.

- Mushtaq, T., M. Sarwar, G. Ahmad, M. U. Nisa, and A. Jamil. 2006. The influence of exogenous multienzyme preparation and graded levels of digestible lysine in sunflower meal-based diets on the performance of young broiler chicks two weeks posthatching. *Poultry Science*, 85: 2180-2185.
- Rafiq, S., T. Iqbal, A. Hameed, Z.A. Rafiqi and N. Rafiq. 2006. Morphobiochemical analysis of salinity stress response of wheat. *Pakistan Journal of Botany*. 38 (5): 1759-1767.
- Shagufta Kamal, Khalil-ur-Rehman, M A Zia and Bushra Prveen. 2006. Standardization of direct ELISA for determination of *Staphylococcus aureus* IJAB.8(1):69-72.
- Shoukat, S., M. Asgher Bajwa, M.A. Waqar and T. Sohail. 2006. Production optimization, purification and Characterization of glucoamylase from *Arachniotus* sp. *J. Chem. Soc. Pak.* 28(4): 401-407.
- Snyder, C.J.P., M. Asghar, J.M. Scharer and R. L. Legge. 2006. Biodegradation kinetics of 2,4,6-trichlorophenol by an acclimated mixed microbial culture under aerobic conditions. *Biodegradation*, 17:535-544.

2007

- Anwar, F., M. Manzoor, T. Iqbal and M.I. Bhangar. 2007. Physico-Chemical characterization of *Moringa concanensis* seed and seed oil. *J Amer Oil Chem Soc.* 84(5): 413-419.
- Bhatti, H.N., M.H. Rashid, M. Asgher, R. Nawaz, A.M. Khalid. and R. Perveen. 2007. Chemical Modification Results in Hyperactivation and Thermostabilization of *Fusarium solani* glucoamylase. *Can. J. Microbiol* 53:177-185.
- Bhatti, H.N., M.H. Rashid, R. Nawaz, A.M. Khalid. M. Asgher and A. Jabbar. 2007. Effect of aniline coupling on kinetic and thermodynamic properties of *Fusarium solani* glucoamylase *Appl. Microbiol. Biot.* 73: 1290-1298.
- Bhatti, H.N., M.H. Rashid, R. Nawaz, M. Asgher, R. Perveen and A. Jabbar. 2007. Optimization of media for enhanced glucoamylase production in solid state fermentation by *Fusarium solani* .*Food Technol. Biotechnol.* 45 (1): 51-56
- Bhatti, H.N., M.H. Rashid, R. Nawaz, R. Perveen, A. Jabbar, and M. Asgher. 2007. Purification and characterization of a novel glucoamylase from *Fusarium solani*. *Food Chem.* 103: 338-343.
- H. N. Bhatti, M. N. Akbar, & M. A. Zia. 2007. Kinetics of irreversible thermal denaturation of horseradish peroxidases. *J. Chem. Soc. Pak.* 29 (2): 161-165.
- H. N. Bhatti, Z. Iqbal, S.A.S. Chatta, and I. H. Bukhari. 2007. Variations in oil potential and chemical composition *Eucalyptus crebra* among different districts of Punjab-Pakistan. *Int. J. Agri. Biol.*, 9(1): 136-138.
- H.N. Bhatti, Binish Mumtaz, M.A. Hanif and R. Nadeem. 2007. Removal of Zn (II) ions from aqueous solution using *Moringa oleifera* Lam. (horseradish tree) biomass. *Process Biochem* 42:547-553
- H.N. Bhatti, G. Mustafa and M. Asgher. 2007. Production of glucoamylase by *Fusarium moniliformi* under solid-state fermentation. *J. Chem Soc. Pak.* 29 (2):99-102.
- K. M. Zia, H. N. Bhatti and I. Ahmad Bhatti. 2007. Methods for polyurethane and polyurethane composites, recycling and recovery: A review. *React. Funct. Polym.* 67, 675-692.
- Kausar Parveen; Khakik-ur-Rahman; M.A. Qamar; M. Shahid and G. Muhammad. 2007. Measurement of HuPON1 as potential biomarker of susceptibility in the volunteers exposed to pesticides. *Life Sci. Int. J.* 1(3): 313-316
- Khalil-ur-Rahman., M.K. Saeed. M.A Zia., S. Falak and R. Rasheed. 2007. Comparative evaluation of paraoxonase and SGOT in female cardiac patients with normal subjects. *IEEE/ICME Int. Cong. On complex medical engineering.* May 23-27, Beijing, China: 1992-1995
- M. Asgher, M. J. Asad H.N. Bhatti, and R. Legge. 2007. Hyperactivation and thermostabilization of *Phanerochaete chrysosporium* lignin peroxidases by immobilization in xerogels. *World J. Microbiol. Biotecnol.* 23: 525-531.
- M.A. Hanif, R. Nadeem., H. N. Bhatti, N. R. Ahmad and T. M. Ansari. 2007. Ni (II) biosorption by *Cassia fistula* (Golden Shower) biomass. *J. Hazard. Mater. B* 139 (2): 345-355.
- M.A. Hanif, R. Nadeem., M. Nadeem Zafar, K. Akhtar and H. N. Bhatti. 2007. Kinetic studies for Ni (II) biosorption from industrial wastewater by *Cassia fistula* (Golden Shower) biomass. *J. Hazard. Mater.* 145: 501-505.
- M. Asgher, H.N. Bhatti, S.H.A. Shah and R. Legge. 2007. Decolorization potential of mixed microbial consortia for reactive and disperse textile dyestuffs. *Biodegradation* 18(3) :311-316.

- Nadeem, R., M.A. Hanif, F. Saleem, S. Perveen, M. N. Zafar and T. Iqbal. 2007. Physical and chemical modification of distillery sludge for Pb (II) biosorption. *Journal of Hazardous Materials*. doi:10.1016/j.jhazmat.2007.04.110
- S. Ali, N. Nisar and T. Hussain. 2007. Dyeing properties of natural dyes extracted from eucalyptus. *J Textile Institute*, acceptance No. doi 10. 1080/00405000701556079.
- Sohail A., M. A. Riaz, A. H. Malik and M. Shahid. 2007. Effect of seed extracts of *Withania somnifera*, *Croton tiglium* and *Hygrophila auriculata* on behavior and physiology of *Odontotermes obesus* (Isoptera: Termitidae). (*Biologia* accepted).
- Zia, M.A., F. Anjum., Khalil-ur-Rahman., A. Khan. 2007. Conjugation of anti-antibodies with peroxidase for detection of hemorrhagic septicemia through ELISA. *IEEE/ICME Int. Cong. On complex medical engineering*. May 23-27, Beijing, China: 1987-1991
- Zia, M.A., Khalil-ur-Rahman., M.K.Saeed. 2007. Thermal characterization of hyperproduced glucose oxidase from *Aspegillus niger* BCG-5 mutant strain. *IEEE/ICME Int. Cong. On complex medical engineering*. May 23-27, Beijing, China: 1981-1986

Department of Zoology & Fisheries

2006

- Abdullah, S. and M. Javed. 2006. Studies on acute toxicity of metals to the fish *Catla catla*. *Pak. J. Biol. Sci.*, 9(9): 1807-1811.
- Abdullah. S. and M. Javed. 2006. Studies on 96-hr LC50 and lethal toxicity of metals to the fish *Cirrhina mrigala*. *Pak. J. Agri. Sci.* 43(3-4): 180 – 185.
- Afza, M. & Ahmad, I. 2006. Effect of temperature on the acute toxicity of ammonia to *Labeo rohita* and *Cirrhinus mrigala*. *Biologia*. 52 (1) : 57-64
- Javed, M. 2006. Studies on growth responses of fish during chronic exposures of nickel and manganese. *P. J. Biol. Sci.*, 9(2): 318 – 322.
- Javed, M. and S. Abdullah. 2006. Studies on acute and lethal toxicities of iron and nickel to the fish. *P. Jour. Biol. Sci.*, 9(3): 330 – 335.
- Javed, M. 2006. Studies on metal contamination levels in plankton and their role as biological indicator of water pollution in the river Ravi. *P. J. Biol. Sci.*, 9(2): 313 – 317.
- Kausar R. and M. Salim. 2006. Effect of different water temperatures on the growth performance and feed conversion ratio of *Labeo rohita*. *Pak. Vet. J.*, 26(3): 105-108.
- Rana, N., M. Z. Iqbal and M. K. Zahoor. 2006. Seasonal variations of scarab beetles diversity in natural (Forest) and induced habitat (Agriculture) in Faisalabad. *Indus J. Bio. Sci.*, 3(2): 751-761.
- Rana, N., S. A. Rana, A. Suhail., M. J. I. Siddiqui and M. Z. Iqbal. 2006. Diversity of soil macrofauna in sugarcane. *Proceedings of International Symposium on Sustainable Crop Improvement and Integrated Management*, September 14-16. 285-291.
- Rana, N., S. A. Rana, A. Suhail, M. J. I. Siddiqui and M. Z. Iqbal. 2006. Diversity of soil macrofauna in sugarcane. *Proceedings of International Symposium on sustainable crop improvement and integrated management*. Pp, 285-291.
- Rana, N., S. A. Rana, M. Z. Iqbal and F. Shahbaz. 2006. Reproductive performance of *Bandicota bengalensis* (Gray) in irrigated crops in Faisalabad (Punjab), Pakistan. *IJAB*, (Accepted).
- Rana, S. A., M. J. I. Siddiqui and N. Rana. 2006. Role of biodiversity in agriculture. *International symposium "Agriculture in 21st Century Challenges and Strategies"* March 14-15. 90-99.
- Rana, S. A., M. J. I. Siddiqui and N. Rana. 2006. Role of biodiversity in agriculture. *International symposium on "Agriculture in 21st century challenges and strategies"*. Pp, 90-99.
- Rana, S. A., N. Rana, M. Z. Iqbal and F. Shahbaz. 2006. Seasonal demographic variation in bandicoot rats, *Bandicota bengalensis* (gray) in irrigated crops. *Pak. J. Agri. Sci.*, 43(1-2).
- Rehman, M. H., I. Ahmed, A. Mateen and S. Abbas. 2006. Variation in Physico-chemical factors under different levels of fertilizers in fish ponds. *J.Nat. Sci.*, 2(2):87-95.
- Rehman, M. H., I. Ahmed., A. Javed and H.M.N. Akhtar. 2006. Comparative growth and yield of exotic Chinese and indigenous major carps under poly culture system. *Pak. Agri. Soc. Sci.* 2(4):256-259.
- Riaz, M. A. and I. Ahmed. 2006. Effects of different predator-prey stocking ratios (*Channa marulius*:*Oreochromis mossambicus*) on the meat quality of *Channa marulius* in fertilized ponds. *Pak. Agri. J. Sci.* 43(1-2): 59-62.

- Shahzad, K., M. Salim and F. Asad. 2006. Evaluation of apparent digestibility coefficient (ADC) of corn, wheat and feather meal for *Labeo rohita*. Pak. J. Zool., 38(2):125-130.
- Shahzadi, T. M. Salim, Ume. Kalsoom and K. Shahzad. 2006. Study on the growth performance and feed conversion ratio (FCR) of hybrid (*Catla catla* x *Labeo rohita*) fed on cottonseed meal, sunflower meal and bone meal. Pak. Vet. J. 26 (4): 163-166.
- Siddiqui, M. J. I., S. A. Rana, M. Ismail and A. Suhail. 2006. Role of antennal sensilla of soil beetles as food selection in the fields of sugarcane. Pak. J. Entomol. 28 (2): 39-43.

2007

- Anwar, N. and H.A. Khan. 2007. Movement Patterns of Indian gerbil (*Tatera indica*) in Some Croplands in an Agro-ecosystem in Faisalabad. Accepted, Pak. Journal of Agric. Sciences, Faisalabad.
- Jabeen, G., H. A. Khan and N. Anwar. 2007. Foraging Rhythms of house crow (*Corvus splendens*) for 30 and 60- minute Durations on Some Crops in an agro-ecosystem in Faisalabad. Accepted, Pak. Journal of Agric. Sciences, Faisalabad.
- Mahmood-ul-Hassan, M., M. A. Beg, M. Mushtaq-ul-Hassan and S. A. Rana. 2007. Nesting and breeding habits of spotted owl *Athene brama* in central Punjab, Pakistan. Journal of Raptor Research (USA), 41 (1): 50-52 pp.
- Mahmood-ul-Hassan, M., M. A. Beg, M. Mushtaq-ul-Hassan and S. A. Rana. 2007. Food habits of spotted owl *Athene brama* in central Punjab, Pakistan. Journal of Acta Zoologica Sinica, 53 (1): 64-68 pp.
- Tariq, S., H. A. Khan and N. Anwar. 2007. Damage assessment and comparison of milky and mature stages of maize by the rose-ringed parakeet (*Psittacula krameri*) in Two Cultivations in an Agro-ecosystem in Faisalabad. Accepted, Pak. Journal of Agric. Sciences, Faisalabad.

Department of Botany

2006

- Ashraf, M., Q. Ali and Z. Iqbal. 2006. Effect of nitrogen application rate on the content and composition of oil essential oil and minerals in black cumin (*Nigella sativa* L.) seeds. Journal of the Science of Food and Agriculture 86(6): 871-876.
- Ashraf, M. and A. Noman. 2006. Influence of applied nitrogen on growth and tissue nutrient concentration in medicinal plant Ajowain (*Trachyspermum ammi* [L.] Sprague). Australian Journal of Experimental Agriculture 46(3):425-428.
- Iqbal, M., M. Ashraf, A. Jamil and Shafiq-ur-Rehman 2006. Does seed priming induce changes in the levels of some plant growth regulators in hexaploid wheat plants under salt stress? Acta Botanica Sinica (New name: Journal of Integrative Plant Biology). 48 (2): 181-189.
- Ashraf, M. and A. Orooj. 2006. Salt stress effects on growth, ion accumulation and seed oil content in an arid zone medicinal plant ajwain (*Trachyspermum ammi* [L.] Sprague). Journal of Arid Environments 64: 209-220.
- Iqbal, M., M. Ashraf and Jamil A. 2006. Seed enhancement with cytokinins: changes in growth and grain yield in salt stressed wheat plants. Plant Growth Regulation 50(1): 29-39.
- Iqbal, M. and M. Ashraf. 2006. Wheat seed priming in relation to salt tolerance: growth, yield and levels of free salicylic acid and polyamines. Annales Botanici Fennici 43: 250-259.
- Raza, S.H., H.R. Athar, M. Ashraf. 2006. Influence of exogenously applied glycine betaine on photosynthetic capacity of two differently adapted wheat cultivars under salt stress. Pakistan Journal of Botany 38(2): 341-352.
- Qasim, M. and M. Ashraf. 2006. Time course of ion accumulation and its relationship with the salt tolerance of two genetically diverse lines of canola (*Brassica napus* L.). Pakistan Journal of Botany 38(3): 663-672.
- Ahmad, M. S. A., F. Javed, M. Ashraf, and F.Y. Hafeez. 2006. Effect of fungicide seed treatments on N₂-fixation and nodulation in pea, *Pisum sativum* L. Bulletin of Environmental Contamination and Toxicology, 77(6): 896-904.
- Waseem, M., H.R. Athar and M. Ashraf. 2006. Effect of salicylic acid applied through rooting medium on drought tolerance of wheat. Pakistan Journal of Botany 38(4): 1127-1136.

- Hussain, M. and M. W. Palmer, 2006. Effect of clipping, fertilization and water stress on the structure of experimental plant communities along a simulated soil gradient. *Proc. Okla. Acad. Sci.* 86: 53-63, 2006.
- Hussain, M. and A. Ali. 2006. Spatial and seasonal variation in the species composition of herbaceous vegetation indigenous to Soon valley in the Salt range of Pakistan. *Pak. J. Agri. Sci.* 43(3-4): 140-145, 2006.
- Hussain, M. M. S. A. Ahmed and A. Kausar, 2006. Effect of lead and chromium on growth, photosynthetic pigments and yield components in mash bean [*Vigna mungo* (L.) Hepper]. *Pak. J. Bot.* 38(5): 1389-1396, 2006.
- Nazila, A., M.Y. Ashraf, M. Hussain and F. Hussain. 2006. Phytoextraction of lead (Pb) by EDTA application through sunflower (*Helianthus annuus* (L.) cultivation: seedling growth studies. *Pak. J. Bot.*, 38(5): 1551-1560, 2006.
- Farooq, M., S.M.A. Basra, A. Wahid and M.B. Khan. 2006. Seed invigoration by hormonal and vitamin priming. *Seed Science and Technology*, 34: 775-780
- Farooq, M., S.M.A. Basra and A. Wahid. 2006. Priming of field-sown rice enhances germination, seedling establishment, allometry and yield. *Plant Growth Regulation*, 49: 285-294
- Maqsood, A., M. Shahbaz and N.A. Akram. 2006. Influence of exogenously applied glycinebetaine on growth and gas exchange characteristics of maize (*Zea mays* L.). *Pakistan Journal of Agricultural Sciences*. 43(1-2): 36-41.
- Akram, N. A., M. Shahbaz, H.RE. Athar and M. Ashraf. 2006. Morpho-physiological responses of two differently adapted populations of *Cynodon dactylon* (L.) Pers. and *Cenchrus ciliaris* L. to salt stress. *Pakistan Journal of Botany*, 38(5): 1581-1588.

2007

- Ali, A.; M. A. Nadeem; A. Tanvir; M. Tahir, and M. Hussain. 2007. Effect of different potash levels on the growth, yield and protein contents of chickpea (*Cicer arietinum* L.). *Pak. J. Bot.* 39(2): 523-527, 2007.
- Wahid, A. and T.J. Close. 2007. Expression of dehydrins under heat stress and their relationship with water relations of sugarcane leaves. *Biologia Plantarum*, 51: 104-109
- Wahid, A. 2007. Physiological implications of metabolites biosynthesis in net assimilation and heat stress tolerance of sugarcane (*Saccharum officinarum*) sprouts. *Journal of Plant Research*, 120: 219-228
- Wahid, A., M. Perveen, S. Gelani and S.M.A. Basra. 2007. Pretreatment of seeds with H₂O₂ improves salt tolerance of wheat seedling by alleviation of oxidative damage and expression of stress proteins. *Journal of Plant Physiology*, 164: 283-294
- Ghani, A. and A. Wahid. 2007. Varietal Difference for Cadmium-induced Seedling Mortality and Foliar-toxicity Symptoms in Mungbean (*Vigna radiata*). *International Journal of Agriculture and Biology*, 9: 555-558
- Malik, M.A., Iqbal, Z., Javed, A., Malik, N. A., Munir, I., Ahmad, M., Bashir, T., and Yaseen, M, 2006. Alpha (α)-Adrenergic Blocker (Doxazosin): Role in Medical Management of Ureteric Stones. *SGH Med Jour* (2007) 2 (1): 30-35

Department of Math & Stat

2006

- Iqbal, Z., M. Sarwar, A. Jabbar, S. Ahmed, M. Nisa, M.S. Sajid, M.N. Khan, K.A. Mufti and M. Yaseen. 2006. Direct and indirect anthelmintic effects of condensed tannins in sheep. *Vet. Parasitol.* 144 (2007) 125-131.
- Jabbar, A., M. A. Zaman, Zafar Iqbal, M. Yaseen, and Asim Shmim. 2006. Anthelmintic Activity of *Chenopodium album* (L.) and *Caesalpinia crista* (L.) against Trichostrongylid Nematodes of Sheep. Presented in The 9th International Congress on Ethnopharmacology, held on August 22-26, 2006, Nanning, Guangxi, P.R. China.

2007

Munir, M. A., Malik, M. A. and Yaseen, M. 2007. Performance of Sunflowers in response to Nitrogen management at different stages. Pak. J. Agri. Sci., Vol. 44(1-2), 2007.

Papers published/presented in National/International Conferences.

Yaseen, M. 2007. Comparison of proposed Estimators of Box's correction in Single Factor Experiments having three Repeated Measures on the same subjects. Presented in the 3rd National Conference on Statistical Sciences and its application to Engineering, Biostatistics, Industrial, Computer and Telecom Technology, held on May 28-29, 2007, National University of Computer and Emerging Sciences FAST-NU, Lahore, P

DIVISION OF EDUCATION & EXTENSION

Department of Continuing Education

2006

Khan, M.A.J. T.E. Lodhi and I. Ashraf. 2006. Rank Orders of Technical Competencies Regarding Agronomic Practices Possessed by Agricultural Officers (Ext.) in the Punjab Pakistan. Accepted for Publication in Pak. Journal of Agriculture Sciences.

Lodhi, T.E, M.A. J. Khan, M. Asif and G.A. Khan. 2006. Perception of Organizational Staff of Top-down Extension System and Participatory Extension System Regarding the Strengths and Weaknesses of Top-down Extension System (TDES) in the Punjab. Int. J. of Agri. and Biology 8(4):569-572.

Luqman, M., N.H Malik and A.S. Khan. 2006. Extent. of rural women's participation in agriculture and household activities. J.Agric.Soc.2 (1): 5-9

Malik, N.H. and A.S. Khan. 2006. Truning Teacher's Centered Students' Centered Teaching Techniques. J.Agric. Soc. Sci. 2(2): 114-116

Malik, N.H. and A.S. Khan. 2006. Evolution of Teacher's training Programe at Higher Education level. J.Agric. Soc. Sci. 2(2) 112-11

2007

Randhawa, M. A., M.A. J. Khan and N. Hussain. 2007. Studies into the Effect of Plant Placing on Quality and Yield of Maize Crop. Int. J. of Agri. and Biology 8(4):370-370.

Department of Agri. Extension

2006

Afzal, I., M.S.A. Basra, T.E. Lodhi & S. Butt. 2006. Improving germination and seedling vigour in wheat under saline conditions by Halopriming. Pak. J. Agri. Sci.Vol. 43 (No.1-2) (Paper Accepted for publications).

Chauhdery K.M, S. Muhammad and I Ashraf. 2006. Alternative extension approaches to technology dissemination for sustainable Agriculture in the Punjab, Pakistan Int. J. Agric. & Bio. vol 8(6):

Chauhdery K.M, S. Muhammad and I. Ashraf. 2006. Alternative extension approaches to technology utilization for sustainable agriculture in the Punjab, Pakistan Int. J. Agric.Bio. vol 8(6).

Hassan M.Z.Y. T. Ali and M. Ahmad. 2006. A brief review of various gender analysis methodologies J. Agric., Pl. Sci.: 16(3-4) 114-117.

Ifran M., S. Muhammad, G.A. Khan and M. Asif. 2006. Role of Mass Media in the dissemination of agricultural technologies among farmers. Int. J. Agri. Bio 8(3) 417-419.

Khan, M.A.J., T.E. Lodhi., & I Ashraf. 2006. Rank orders of technical competencies regarding agronomic practices possessed by Agricultural Officer (Ext.) in the Punjab, Pakistan. Pak. J. Agri. Sci. (Accepted for Publication).

- Lodhi, T.E., M. Luqman, A. Javed & M. Asif. 2006. Utilization of Micro-credit by the female community: A case study of Azad Jammu Kashmir (Pakistan). *Int. J. Agric. & Bio.* Vol. 8(2) 175-177.
- Lodhi, T.E., M.A.J. Khan & M. Asif. 2006. Perceptions of organizational staff of Top-down extension system and Participatory Extension Systems regarding the strengths & weaknesses of Top-down Extension System (TDES) in the Punjab, Pakistan. *Int. J. Agri.& Bio* Vol. 8(4).
- Siddique, B.N., S. Muhammad, W.H. Malik. 2006. Effect of socio-economic aspects on the awareness and adoption of recommended horticultural practices by apple growers in Baluchitstan, Pakistan. *Pak. J. Agri. Sci.* 43(1-2)73-76.

Department of Rural Home Economics

2006

- Akhtar, M. S., Ansar,S.M. N. Abbas and N. Ahmad. 2006. Study of blood pressure patterns versus serum lipid parameters in obese human subjects. *Medical J. Islamic World Acad. Sci.* 16(1): 5-10, Turkey, 2006.
- Akhtar, M.S., A. Ramzan, N. Bhattyy., A. Ali, and F. Muhammad. 2006. Effect of Amla (*Emblca officinalis*) fruit on blood glucose and lipid profiles of normal and diabetic human volunteers. *Pak. J. of Medical Res.*25: (1-2).
- Akhtar, M.S., N.Bhattyy, S. Ashraf, and N. Ahmad. 2006. Effect of antioxidant rich diet on certain lipid profile and blood pressure in cardiovascular patients. *Proc. Pak. Acad. Sci.* 43(2): 109-119.
- Faiqa,F. M. Nawaz, A. Fatima, B. Saman and L.Aasma. 2006. Dietary effects on hemolipid profile in university students of middle income group. *Professional Mee J.* 13(4): 621-626.
- Nagra S.A. and N. Bhattyy. 2006. Nutritional improvement of peas (*Pisum sativum* L.) by cooking and supplementation with different kinds of meat. *Eastern Mediterranean Health Journal.*(EMHJ).
- Q. Riaz, A. Iqbal, N.Bhattyy, A.Muzaffar and Robina Rashid. 2006. The Effect of Dietary Habits on Calcium Level in Nephrotic Patients of Padiatric Population. *J. of Agri.Soc. Sci.* ISSN 1813-2235.

WATER MANAGEMENT RESEARCH CENTRE

2006

- Ahmad, N. and Naeem Mahmood. 2006. Comparison of water saving in bed-planted and flat-planted rice. Proceedings of "International Conference of Agricultural Engineering: Issues and Strategies" held on 17-19 February, 2006, at UAF, Pakistan.pp.250-255.
- Ahmad, N., M. Arshad and A.Waqas. 2006. Irrigation water as a future challenge to agriculture in Pakistan – a case study of Bari Doab. Proceedings of the International seminar on "Water and Environment – A Looming Crisis" held on August 20-22 2006, University of Agriculture, Faisalabad, Pakistan.
- Ahmad, N.M. Arshad and A. Saeed. 2006. High watertable management to improve water productivity of Rice. Proceedings of the International seminar on "Water and Environment – A Looming Crisis" held on August 20-22 2006, University of Agriculture, Faisalabad, Pakistan.
- Ahmad, N., L. Anjum and M. Arshad. 2006. Exploitation of groundwater resources in the command area of Lower Bari Boad Canal. Proceedings of the International seminar on "Water and Environment – A Looming Crisis" held on August 20-22 2006, University of Agriculture, Faisalabad, Pakistan.
- Arshad M., J. Masood and N. Ahmad. 2006. Impact of recharge on temporal and spatial fluctuations of watertable. Proceedings of the International seminar on " Water and Environment – A Looming Crisis" held on August 20-22 2006, University of Agriculture, Faisalabad, Pakistan.
- Sial, J.K., M. Azam Khan and N. Ahmad. 2006. Performance of Surge Irrigation under borders. *Pak. J. Agri. Sci.*, Vol. 43(3-4), P:186-192

2007

- Ahmad, N., A.Saeed and A.waqas. 2007. Water productivity of different crops under raised bed technology. International Conference and EXPO of Water Technologies – WATER ASIA 2007, Lahore January 9-10, 2007.

Ahmad, N., L. Anjum, A.Saeed and M. Arshad. 2007. Use of ground water resources in the command area of Lower Bari Doab Canal- a case study. International Conference and EXPO of Water Technologies – WATER ASIA 2007, Lahore January 9-10, 2007.

NATIONAL INSTITUTE OF FOOD SCIENCES & TECHNOLOGY

2006

- Faqir Muhammad Anjum, Muhammad Issa Khan, Masood Sadiq Butt, Shahzad Hussain and Muhammad Abrar. 2006. Functional properties of soy hulls supplemented wheat flour. *Nutrition Food Science* 36(2): 82 - 89.
- Faqir Muhammad Anjum, Muhammad Rauf, Muhammad Issa Khan and Shahzad Hussain. 2006. Preparation and evaluation of low calorific fiber rich cakes by wheat bran supplementation. *Nutrition Food Science*. 36(6): 438-44
- Ghulam Rasool and Faqir Muhammad Anjum. 2006. Chemical and nutritional quality of wheat chapattis fortified with defatted oilseed flours. *Pak. J. Agri. Sci.* 43(3-4):162-168.
- M. Sadiq Butt, J. Rasool and K. Sharif. 2006. Preparation and characterization of cake rusks by using red palm oil fortified shortening. *Food Sci Tech Int.* 12(1):85-90
- Muhammad Mushtaq Ahmad and Salim-ur-Rehman. 2006. Sensory evaluation of citrus peel essential oils as flavouring agents in various food products. *Journal of Agricultural Research* 44(4): 325-333.
- Muhammad Mushtaq Ahmad, Salim-ur-Rehman, Faqir Muhammad Anjum and Ehsan Elahi Bajwa. 2006. Comparative physical examination of various citrus peel essential oils. *International Journal of Agriculture and Biology* 8(2): 186-190.
- Muhammad Mushtaq Ahmad, Salim-Ur-Rehman, Zafar Iqbal, Faqir Muhammad Anjum and Javaid Iqbal Sultan. 2006. Genetic variability to essential oil composition in four citrus fruit species. *Pakistan Journal of Botany* 38 (2): 319-324.
- Rashid Minhas, M.S. Butt, Tahir Zahoor, Slim-ur-Rehman, Moazzam Rafiq and Muhammad Saeed. 2006. Preparation and evaluation of chicken rolls with baking powder. *International Journal of Agriculture and Biology* 8(5): 703-705.
- S.H. Khan, G. Rasool and S. Nadeem. Bioconversion of cane molasses into amino acids. 2006. *Pak. J. Agri. Sci.* 43(3-4) 157-161.
- Salim-ur- Rehman, Basit Hussain Shah, Syed Zawar Haider Kazmi, Sidra Til Muntaha. 2006. Effect of incorporation of matri milk powder on dough rheology and bread sensory quality. *Indus Journal of Plant Sciences* 3(2): 805-809.
- Salim-ur-Rehman, Alistair Paterson and John R. Piggott. 2006. Flavour in sourdough breads: a review. *Trends in Food Science and Technology* 17(10): 557-566.
- Salim-ur-Rehman, Alistair Paterson and John Raymond Piggott. 2006. Optimization of chapatti textural quality using British wheat cultivar flours. *International Journal of Food Science and Technology* 41 (supplement 2): 30-36
- Salim-ur-Rehman, M.M. Ahmad, I.A. Bhatti, R Shafique, G. Mueen-ud-Din and M.A. Murtaza. 2006. Effect of pearling on physico-chemical rheological characteristics and phytate content of wheat-sorghum flour. *Pakistan Journal of Botany* 38(3): 711-719.
- Salim-ur-Rehman, Sharafat Ali Anjum and Faqir Muhammad Anjum. 2006. Storage stability of ferrous iron in whole wheat Flour naan production. *Journal of Food Processing and Preservation* 30 (3): 323-334.
- Shahzad Hussain, Faqir Muhammad Anjum, Masood Sadiq Butt, Muhammad Issa Khan, Ali Asghar. 2006. Physical and sensoric attributes of flaxseed flour supplemented cookies. *Turkish Journal Biology*. 30: 87-92.
- Surayia Zakir, Mohammad Sarwar, Jonathan Allen, Muhammad Nisar Khan and Masood Sadiq Butt. 2006. Variation in physio-chemical characteristics of some cultivars of sweet potato. *Pak. J. Bot.*, 38(2): 281-291, 2006.
- Salim-ur-Rehman, Alistair Paterson, Sarfraz Hussain, Ijaz Ahmad Bhatti and Muhmmad Akmal Raza Shahid. 2006. Influence of detoxified Indian vetch (*Lathyrus sativus* L.) on sensory and protein quality characteristics of composite flour chapatti. *Journal of the Science of Food and Agriculture* 86(8): 1172-1180.

2007

- Ghulam Mueen-ur-Din, Salim-ur-Rehman, Faqir Muhammad Anjum and Haq Nawaz. 2007. Quality of flat bread (naan) from pakistani wheat varieties. *Pakistan Journal of Agricultural Sciences* 44 (1): 171-175.
- Ghulam Mustafa Sipra and Salim-ur-Rehman. 2007. The importance of good health. *The Nation*, Sunday Plus, July 8, 2007.
- Ijaz A. Bhatti , Jong-Ho Kwong and Salim-ur-Rehman. 2007. Characteristics of pulsed photo-stimulated luminescence and thermoluminescence for the identification of gamma irradiated poultry egg. *Nuclear Science and Techniques* 18(1): 20-25.
- M.S. Butt, Aftab Ahmad and M.K. Sharif. 2007. Influence of pectin and guar gum composite flour on plasma biochemical profile of streptozotocin-induced diabetic male albino rats. *International Journal of Food Properties*, 10: 345-361.
- Masood Sadiq Butt, Naureen Shahzadi, Mian Kamran Sharif and Muhammad Nasir. 2007. Guar gum: a miracle therapy for hypercholesterolemia, hyperglycemia and obesity. *Critical Reviews in Food Science and Nutrition*, 47:389-396.
- Muhammad Umair Arshad, Faqir Muhammad Anjum and Tahir Zahoor. 2007. Nutritional assessment of cookies supplemented with defatted wheat germ. *Food Chemistry*, 102:123-128.
- Naureen Shahzadi, Masood S. Butt, Mian K. Sharif, Munammad Nasir. 2007. Effect of guar gum on the serum lipid profile of sprague dawley rats. *LWT* 40: 1198-1205.
- Nuzhat Huma, Salim-ur-Rehman, Faqir Muhammad Anjum, Munir A. Sheikh and M. Anjum Murtaza. 2007. Food Fortification Strategy - Preventing Iron Deficiency Anemia: A Review. *Critical Reviews in Food Science and Nutrition* 47(3): 259-265.
- Salim-ur Rehmana, Alistair Patersona, Sarfraz Hussainb, Mian Anjum Murtazab, Shahid Mehmood. 2007. Influence of partial substitution of wheat flour with vetch (*Lathyrus sativus* L) flour on quality characteristics of doughnuts. *LWT-Food Science and Technology* 40(1): 73-82.
- Salim-ur-Rehman, Ahmad MM, Kazmi ZH, Raza MS. 2007. Physico-chemical variations in essential oils of Citrus reticulate. *Journal of Food Science and Technology* 44(4): 353-356.
- Salim-ur-Rehman, Alistair Paterson and John R. Piggott. 2007. Physico-chemical, rheological and sensory characteristics of British commercial chapatti flours. *Journal of Food, Agriculture and Environment*. 5(2):
- Salim-ur-Rehman, Alistair Paterson and John Raymond Piggott. 2007. An optimization of flours for chapatti preparation using a mixture design. *Journal of the Science of Food and Agriculture* 87(3):425-430.
- Salim-ur-Rehman, Alistair Paterson and John Raymond Piggott. 2007. Chapatti quality from British wheat cultivar flours. *LWT-Food Science and Technology* 40 (5): 775-784.
- Salim-ur-Rehman, Haq Nawaz. Muhammad Mushtaq Ahmad, Sarfraz Hussain Anjum Murtaza and Shahid Hafeez Shahid. 2007. Physico-chemical and sensory evaluation of ready to drink soy-cow milk blend. *Pakistan Journal of Nutrition* 6(3): 283-285.
- Salim-ur-Rehman1, Sarfraz Hussain, Haq Nawaz, Muhammad Mushtaq Ahmad, Nuzhat Huma and Waseem Ahmad Virk. 2007. Preparation and quality evaluation of *lathyrus sativus* l-bovine milk blend. *Pakistan Journal of Nutrition* 6(2): 134-137.

INSTITUTE OF HORTICULTURAL SCIENCES

2006

- Abbas, M; MM Khan; SM Mughal; MJ Jaskani; H Abbas. 2006. Propagation of CTV-free sweet orange [*Citrus sinensis* (L.) Osbeck] plants through microbudding technique. *Pak. J. Bot.* 38: 583-587.
- Ahmad S. and AK Thompson. 2006. Effect of modified atmosphere storage on the ripening and quality of ripe fruit. *Acta Horticulturae* Number 741. Proceeding of first International Symposium on Fresh Food Quality Standards: Better Food By Quality and Assurance. Horticulturae ISHS, 9th to 11th May, 2006. Amman, Jordan
- Ahmad, S. and A.K. Thompson. 2006. Effect of controlled atmosphere storage on the Ripening and quality of banana fruit. *The Journal of Horticultural Sciences and Biotechnology*. 81(6):1021-1024.

- Ahmad, S., M.A. Perviez, R. Anwar and A.K. Thompson. 2006. Improvement of banana quality by storing them in polyethylene bags on different thickness with Ethylene and with out Ethylene. *Journal of Horticulture, Environment, and Biotechnology*. 47(5): 253-259.
- Ahmed S., A.K. Thompson, M.A. Perviz. 2006. Effect of harvest maturity stage and hand positions on the ripening behavior and quality of banana fruit. *Acta Horticulturae* Number 741. Proceeding of first International Symposium on Fresh Food Quality Standards: Better Food By Quality and Assurance. Horticulturae ISHS, 9th to 11th May, 2006. Amman, Jordan.
- Ahmed W., M.A. Nawaz, M.A. Pervez and C.M. Ayyub. 2006. Physiological properties of citrus cultivars for future prospects of citrus industry. *Jour. of Botany* 1(1): 23-28.
- Ahmed, W., M.A. Pervez, M. Amjad, M. Khalid, C.M. Ayyub and M.A. Nawaz. 2006. Effect of stionic relation on the growth and yield of kinnow mandarin. *Pak. J. Bot.* 38(3): 603-612.
- Alam N., F. Naveed, M. M. Khan, M. Abbas and S. Ahmad. 2006. Early age propagation of three commercial Citrus species through microbudding technique. *Pakistan Journal of Agricultural Sciences*. 43(1-2):42-44.
- Anwar, R., Z. Hussain,, S. Ahmad, and F. Razi. 2006. Vegetative and reproductive physiology of April flush in mango (*Mangifera indica* L.) cv. Dusehri. *Int. J. Agric. Biol.* 8(4):452-454.
- Ayyub C.M., M. Amjad, M. A. Pervez, W. Ahmed, M.A. Nawaz and A. Iqbal. Growth and Yield response of Okra varieties to various nitrogen levels. *Jour. of Botany* 1(1): 103-108 (2006)
- Ayyub C.M., M. Amjad, W.Ahmed, K. Ziaf and M. I. Khan. 2006. Response of Potato to nitrogen application methodologies. *PJAS*. 43(1-2); 45-49.
- Ayyub C.M., M.A. Pervez, M. Amjad, W. Ahmed, M.A. Nawaz, I. Ali, and M. Ali. 2006. Nitrogen fertilizer in relation to growth and yield of potato. *Proceedings Int. symposium on sustainable crop improvement and integrated management*. Sep. 14-16, 2006. PP.171-173.
- Azhar N., M.Y. Ashraf, M.Hussain and F.Hussain. 2006. Phytoextraction of lead (Pb) by EDTA application through sunflower (*Helianthus annuus* L.) cultivation: seedling growth studies. *Pak. j. Bot.*, 38(5):1551-1560.
- Hussain, U., K. Ziaf, I. Ahmad and Q. Iqbal. 2006. Combating malformation through mechanical approach in Mango (*Mangifera indica*). *J. Bot.* 1(1): 9-16.
- Jaskani, MJ; H Abbas; MM Khan; U Shahzad; Z Hussain. 2006. Morphological description of three potential citrus rootstocks. *Pak. J. Bot.* 38:311-317.
- Jaskani, MJ; SW Kwon; DH Kim; H Abbas. 2006. Seed treatments and orientation affects germination and seedling emergence in tetraploid watermelon. *Pak. J. Bot.* 38:89-98.
- Khan M. M, M. A. Khan, M. Abbas, M. J. Jaskani and M.A. Ali. 2006. Evaluation of potting media for the production of rough lemon nursery stock. *Pakistan. Journal of Botany*. 38 (3): 623-629.
- Khan, M.S., M. Usman, M.I. Lilla. 2006. Facile plant regeneration from tomato leaves induced with spectinomycin. *Pak. J. Botany*, 38(4): 947-952.
- Khan, MM; MA Khan; M. Abbas; MJ Jaskani; MA Ali; H Abbas. 2006. Evaluation of potting media for the production of rough lemon nursery stock. *Pak. J. Bot.* 38: 623-629.
- Ko, B.R.; S.W. Kwon; M.J. Jaskani; J.S. Choi. 2006. Fatty acid composition and fad gene expression in roots of watermelon and gourd under low temperature. *Acta Horticulturae* 710:377-382. (2006)
- Kwon, SW; MJ Jaskani; BR Ko; YG Choi. 2006. Evaluation of soft X-ray irradiated pollen and CPPU for diploid seedless watermelon production. *Acta Horticulturae* 710:289-294.
- M. Yasin Ashraf, N. Azhar, M. Hussain. 2006. Indole acetic acid (IAA) induced changes in growth, relative water contents and gas exchange attributes of barley (*Hordeum vulgare* L.) grown under water stress conditions. *Plant Growth Regul*, 50:85-90.
- MA Nasir, TA Mohar, A. Aziz, S. Ahmad and A. Rehman. 2006. Nursery Performance of different root stock under Sargodha climate conditions. *Journal of Agricultural Research*, 44(2): 161-165. (2006)
- Malik, A. U. and Z. Singh,. Improved fruit retention and fruit quality with exogenous application of polyamines. *Scientia Horticulturae*, 110:167-174.
- Mehmood N., C.M. Ayyub and S. Zakia. 2006. Response of split application of nitrogen fertilizer on yield of potato crop (*Solanum tubersum* L.) *Int. J. Biol. and Biotech.* 3(1): 197-199.
- Pervez M.A., K. Ahmed, C.M. Ayyub and N. Akhtar. 2006. Growth, yield, quality and vigour of tomatoes in response to different doses of plant growth regulators. *Proceedings Int. Symposium on Agri. In 21st century; challenges and strategies* March, 14-15, 2006. PP. 184-188.
- Ullah H., S. Ahmad, M. M. Khan and A.K. Thompson. 2006. Role o different anti-microbial agents and aeration on water storage of banana. *Pakistan Journal of Agricultural Sciences*. 43 (3-4): 152-156.

Ullah, H., S. Ahmad, R. Anwar and A.K. Thompson. 2006. Effect of high humidity and water on the quality and ripening of banana fruit. *International Journal of Agriculture & Biology* .8(6): 828-831.

2007

Ahmed W., K. Ziaf, M.A. Nawaz, B.A. Saleem and C. M. Ayyub. 2007. Studies on combining ability of citrus hybrids with indigenous commercial cultivars. *Pak. J. of Bot.* 39(1): 47-55.

Amjad M., M. A. Anjum. 2007. Effect of post irradiation ageing on onion seeds. *Acta. Phy. Plant.*, 29: 63-69.

Anwar R. and A.U. Malik. 2007. Hot water treatment affects ripening quality and storage life of mango cv. Sindhri. *Pak. J. Agric. Sci.* 44(2): 23-30.

Hanif. M.A., H.N. Bhatti, R. Nadeem, K.M. Zia and M.A. Ali. 2007. *Cassia fistula* (Golden Shower): A Multipurpose ornamental tree. *Floriculture and Ornamental Biotechnology*. Global Science Books. (Japan). 1(1): 20-26.

Saleem B.A., A.U. Malik and M. Farooq. 2007. Effect of exogenous growth regulators on fruit drop and fruit quality in citrus. cv. Blood Red. *Pak. J. Agric. Sci.* 44(2):17-22.

ABSTRACTS

2006

Ahmed W., Z. Iqbal, M.A. Pervez, M. A. Nawaz and C.M. Ayyub. 2006. Comparative studies of various planting densities on vigour and yield of kinnow mandarin. 3rd National Conference on Agriculture and Animal Sciences from November, 21-23, 2006. Sindh Agriculture University, Tandojam, Sindh. P-16

Amjad, M., K. Ziaf and A.U. Rehman. 2006. Impact of nitrogen and phosphorus on seed yield of mid season pea cultivars. *Proceedings of the 34th Pakistan (SAARC) Countries Science Conference*, University of Veterinary and Animal Sciences, Lahore-Pakistan, 20th to 22nd February, 2006. P. 36.

Amjad, M., K. Ziaf and S. Nawaz. 2006. Estimation of optimum nursery raising and transplanting time of onion cv. Faisal Red. *Proceedings of the 34th Pakistan (SAARC) Countries Science Conference*, University of Veterinary and Animal Sciences, Lahore-Pakistan, 20th to 22nd February, 2006. pp. 35-36.

2007

Ali, M.A., and I. Mehmood. 2007. Spawn production technology. *National Workshop & Symposium: Growing Mushrooms: Prospects & Potential for Rural Communities*. Held on May 18-19, 2007.

Ali, M.A., and I. Mehmood. 2007. Status and production of Oyster mushroom in Pakistan. *National Workshop & Symposium: Growing Mushrooms: Prospects & Potential for Rural Communities*. Held on May 18-19, 2007.

Amjad, M., Q. Iqbal, Shahjahan, M. M. Jahangir and K. Ziaf. 2007. Effect of phosphorus application on growth and seed yield of lettuce cultivars. *International Symposium on Prospects of Horticultural Industry in Pakistan; Future challenges and production prospects*. 28th to 30th march, 2007. P 84.

Ayyub C.M., K. Ziaf, S. Rashid, and M. Amjad. 2007. Effect of seed maturity and storability on viability and vigour in pea seeds. *Int. symposium on prospects of horticultural industry in Pakistan; future challenges & production prospects*, from 28th to 30th March, 2007. P-72

Ayyub C.M., S.M.A. Basra, F. Munir and I. Afzal. 2007. Augmentation of germination and seedling growth of tomato cultivars by pre sowing seed treatments. *Int. symposium on prospects of horticultural industry in Pakistan; future challenges & production prospects*, from 28th to 30th March, 2007. P-71.

Basra, S.M.A., C.M. Ayyub, F. Munir, I. Afzal and A. Nawaz. 2007. Physiological enhancement of tomato seeds by hormonal priming with polyamines. *Int. symposium on prospects of horticultural industry in Pakistan; future challenges & production prospects*, from 28th to 30th March, 2007. P-13.

Pervez M.A., C.M. Ayub, W. Ahmed, M. A. Nawaz, K. Ahmad and N. Akhtar. 2007. Effect of drought stress on quality and vigour of pea cv. Kelvedon wonder. *Int. symposium on prospects of horticultural industry in Pakistan; future challenges & production prospects*, from 28th to 30th March, 2007. P-5.

- T. Saeed, M.M. Khan, M. Aslam, M. Usman, B. Fatima, M.I. Ashraf and Q. Iqbal. 2007. Effect of seed size on germination and plant growth of naturally occurring polyploids in citrus. PHIP 87, pp. 82
- Yaqub M.S., C.M. Ayyub and R. Aslam. 2007. Growing of vegetables in pots in urban areas. Int. symposium on prospects of horticultural industry in Pakistan; future challenges & production prospects, from 28th to 30th March, 2007. P-97.
- Ziaf, K., M. Amjad, Q. Iqbal, S. Rasheed, M. M. Jahangir and T. Saeed. 2007. Seed priming for improved seedling vigour in chillies. International Symposium on Prospects of Horticultural Industry in Pakistan; Future challenges and production prospects. 28th to 30th march, 2007. pp 85-86.

ORAL PRESENTATIONS

2006

- Malik, A. U. 2006. Effect of hot water treatment and storage duration on shelf life and quality of Pakistani mango (*Mangifera indica* L.) cv. Sindhri” in 27th International Horticultural Congress and Exhibition from 13th to 19th August, 2006 in Seoul, South Korea.
- Nazila Azhar. 2006. Soil plant micronutrients relationship of mango in Hyderabad district of Pakistan. International Symposium on Prospects of horticultural Industry in Pakistan, University of Agriculture, Faisalabad.

2007

- Ahmad W., M. Azher Nawaz, M. M. Khan, B. A. Saleem and M. Azher Iqbal. 2007. Proximate analysis and economic estimation of kinnow (*citrus reticulata* blanco) peel oil on nine rootstocks, International Symposium on Prospects of horticultural Industry in Pakistan, University of Agriculture, Faisalabad.
- Ahmad, Al-Maskari., M. M. Khan, M. Abbas, R. Waseem. 2007. Physiological basis of seed deterioration in turnip seeds, International Symposium on Prospects of horticultural Industry in Pakistan, University of Agriculture, Faisalabad.
- Khan, I.A., M. M. Khan, Y. Iftikhar, S. M. Mughal, M. J. Jaskani, M. Abbas, A. Batool, and A. Nawaz. 2007. Disease free citrus nursery production and certification program in Pakistan, International Symposium on Prospects of horticultural Industry in Pakistan, University of Agriculture, Faisalabad.
- Raheel Anwar. 2007. Evaluation of packaging and fruit ripening methods in mango (*Mangifera indica* L.)” in International Symposium on Prospects of Horticultural Industry in Pakistan from 28th to 30th March 2007 at Institute of Horticultural Sciences, University of Agriculture Faisalabad.
- Saeed Ahmad. 2007. Improved production and export technology in Viticulture” in National Conference on Deciduous Fruits from 20th to 22nd February 2007 at National Agricultural Research Centre (NARC), Islamabad-Pakistan. Organized by Horticultural Foundation of Pakistan (HFP) in collaboration with Pakistan Science Foundation (PSF) and Pakistan Agricultural Research Council (PARC).
- Saeed Ahmad. 2007. Preharvest attributes affecting postharvest quality of citrus fruits” in National Conference on Citriculture from 1st to 3rd February, 2007 at National Agricultural Research Centre (NARC), Islamabad-Pakistan. Organized by Horticultural Foundation of Pakistan (HFP) in collaboration with Pakistan Science Foundation (PSF) and Pakistan Agricultural Research Council (PARC).
- Saeed, T., M. M. Khan, M. Aslam, M. Usman, B. Fatima, M. I. Ashraf and Q. Iqbal. 2007. Effect of seed size on germination and plant growth of naturally occurring polyploids in citrus. International Symposium on Prospects of horticultural Industry in Pakistan, University of Agriculture, Faisalabad.

POSTER PRESENTATIONS

2007

- Ahmad, W., A. Nawaz, M. M. Khan, R. Anwar and Z. Iqbal. 2007. Effect of high density planting on vigour and yield in kinnow mandarin (*Citrus reticulata* Blanco), International Symposium on Prospects of horticultural Industry in Pakistan, University of Agriculture, Faisalabad.

- Bimonthly nutritional program in mango (*Mangifera indica* L.) for improvement of flowering and fruit set" in *International Symposium on Prospects of Horticultural Industry in Pakistan* from 28th to 30th March 2007 at Institute of Horticultural Sciences, University of Agriculture Faisalabad.
- Hussain, Z., M. Usman, B. Fatima and M.M. Khan. 2007. Somatic embryogenesis and plant regeneration in cucumber cultivars. *International Symposium on Prospects of horticultural Industry in Pakistan*, University of Agriculture, Faisalabad.
- Iqbal, M. A., W. Ahmad, M. A. Nawaz and M. M. Khan. 2007. Performance of Kinnow Mandrin (*Citrus reticulata* Blanco), *International Symposium on Prospects of horticultural Industry in Pakistan*, University of Agriculture, Faisalabad.
- Nawaz, M. A., M. M. Khan, M. J. Jaskani, and Y. Iftikhar. 2007. Present status of citrus gene pool in Pakistan, *International Symposium on Prospects of horticultural Industry in Pakistan*, University of Agriculture, Faisalabad.
- Saeed, T., M. M. Khan, M. Aslam. M. Usman, M.J. Jaskani and K. Ziaf. 2007. Effect of Benzyle Adenine on callus formation in Apple, *International Symposium on Prospects of horticultural Industry in Pakistan*, University of Agriculture, Faisalabad.

INSTITUTE OF ANIMAL NUTRITION & FEED TECHNOLOGY

2006

- Ahmad, T. and M. Sarwar. 2006. Dietary electrolyte balance: implications in heat stressed broilers. *World's Poul. Sci.* J.62L636-653.
- Ahmad, T., T. Mushtaq, M. Nisa, M. Sarwar, D. M. Hooge and M. A. Mirza. 2006. Effect of different non-chloride sodium sources on the performance of heat-stressed broiler chicken. *British Poultry Sci.*47:249-256.
- Jacobs, R. Anderson, D.M., MacIsaac, J.L. and Mirza, M. A. 2006. Evaluation of triticale with or without a commercial dietary enzyme for broiler chickens. *The Joint Conference of the Canadian Societies of Animal Science, Agronomy and Horticultural Sciences.* August 4th, 2006. Westin Hotel, Halifax, NS. Canada.
- Khan M.A., M. Sarwar, M.U. Nisa M.S. Khan.S.A. Bhatti, Z. Iqbal, W.S. Lee, H.J. Lee, H.S. Kim, and K.S. Ki. 2006. Feeding value of urea treated wheat straw ensiled with or without acidified molasses in Nili-Ravi buffaloes. *Asian-Aust. J. Anim. Sci.* 19 (5): 645-650
- Khan, M. A., M. Sarwar, M. Nisa, Z. Iqbal, M. S. Khan, W. S. Lee, H. J. Lee and H. S. Kim. 2006. Chemical Composition, In situ Digestion Kinetics and Feeding Value of Oat Grass (*Avena sativa*) Ensiled with Molasses for Nili-Ravi Buffaloes. *Asian-Australasian J. Anim. Sci.*19:1127-1135.
- Mahmood, S., M. A. Khan, M. Sarwar and M. Nisa. 2006. Chemical treatments to reduce antinutritional factors in salseed (*Shorea robusta*) meal: Effect on nutrient digestibility in colostomized hens and intact broilers. *Poultry Sci.* 85:2207-2215.
- Mirza, M. A. and Mushtaq, T. 2006. Effect of supplementing different levels of corn steep liquor on the post-weaning growth performance of Pak-Karakul lambs. *Pak. Vet. J.* 26: 135-137.
- Nisa M., M. A. Khan, M. Sarwar, W. S. Lee, H. J. Lee, S. B. Kim, B. S. Ahn and H.S. Kim. 2006. Influence of corn steep liquor on feeding value of urea treated wheat straw in buffaloes fed at restricted diets. *Asian-Australasian J. Anim. Sci.*19:1610-1618.
- Mushtaq, T., M. Sarwar, G. Ahmad, M. Nisa and A. Jamil. 2006. The influence of exogenous multi-enzymes preparation and graded levels of digestible lysine on the performance of young broiler chicks two weeks post hatching in sunflower meal based diets. *Poultry Sci.*85:2180-2185.
- Sarwar, M., M. Nisa, Z. Hussan and M.A. Shahzad. 2006. Influence of urea molasses treated wheat straw fermented with cattle manure on chemical composition and feeding value for growing buffalo calves. *Livestock Sci.*105:151-161.
- Zakir, S., M. Sarwar, J. Allen, M.N. Khan and M.S. Butt. 2006. Variation in physio-chemical characteristics of some cultivars of sweet potato. *Pakistan J. Bot.*38:283-291.

2007

- Ahmad, G.; Mushtaq, T., Mirza, M. A. and Ahmad, Z. 2007. Comparative bio-efficacy of lysine from L-lysine sulfate in basal diets containing graded levels of canola meal for female broiler chickens. *Poultry Science* 86: 525-530

- Akhtar, M.Z., A. Khan, M. Sarwar and A. Javaid. 2007. Influence of soil and Forage Minerals on Buffalo (*Bubalus bubalis*) Parturient Haemoglobinurea. *Asian-Australasian J. Anim. Sci.*20:393-398.
- Akhtar, P.; Abdullah, M.; Younis, M. and Mirza, M. A. 2007. Heritability estimates of some growth traits of Hissardale sheep in Pakistan. *Indian J. Animal Science.* 77: 65-67.
- Ali, C. S., T. Khaliq, A. Javaid, M. Sarwar, M. A. Shahzad and S. Zakir. 2007. In Vitro utilization of NPN sources by increasing levels of corn starch based diets. *Pak.Vet. Journal.* Vol.2 No.2.95-101.
- Bashir, M.K.M.S. Khan, S.A. Bhatti and A. Iqbal. 2007. Lifetime performance of Nili-Ravi buffaloes in Pakistan. *Asian-Aust. J. Anim. Sci.* 20 (5): 661-668
- Bhatti, S.A., M. Sarwar, M.S. Khan and S.M.I. Hussain. 2007. Reducing the age at calving through nutritional manipulations in dairy buffaloes and coes: a review. *Pak Vet. J* 27 (1)42:47
- Ghulam Mueen-ud-Din, Salim-ur-Rehman, Faqir Muhammad Anjum and Haq Nawaz. 2007. Quality of flat bread (Naan) from Pakistan Wheat Varieties. *Pak. J. Agri. Sci.*, 44 (1): 171-175
- Iqbal, Z., M. Sarwar, A. Jabbar, S. Ahmed, M. Nisa, M. S. Sajid, M. N. Khan, K. A. Mufti and M. Yaseen. 2007. Direct and indirect anthelmintic effects of condensed tannins in sheep. *Vet. Parasit.* 144:125-131.
- Khan M. S, A.A. Bhatti, S.A. Bhatti and M. Ashiq. 2007. Semen Production and productive life of Sahiwal bulls-Relationship with genetic worth. *Pak Vet. J.* Vol.27(1): 20-24
- Mirza, M. A., Mushtaq, T. and Sultan, J. I. 2007. Improved feed utilization with exogenous enzymes. National Nutrition Conf. held at the Univ. Agri. Faisalabad. July 21, 2007.
- Muhammad yaqoob and Haq Nawaz. 2007. Potential of Pakistani Camel for milk and other uses. *Animal Science Journal*, 78:467-475
- Mushtaq, T., Mirza, M. A., Athar, M., Hooge, D. M., Ahmad, T., Ahmad, G., Mushtaq M. M. H. and Noreen. U. 2007. Dietary sodium and chloride for twenty-nine to forty-two days old broiler chickens at constant electrolyte balance under subtropical summer conditions. *The Journal of Applied Poultry Research* 16: 161-170.
- Salim-ur-Rehman, Haq Nawaz, Sarfraz Hussain, Muhammad Mushtaq Ahmad, Mian Anjum Murtaza and Mian Saeed Ahmad. 2007. Effect of sourdough bacteria on the quality and shelf life of bread. *Pak. J. Nutr.* 6(6): 552:565.
- Shahzad, M. A., M. Sarwar and M. Nisa. 2007. Nutrients intake, acid base status and growth performance of growing male buffalo calves fed varying level of dietary cation anion difference. *Livestock Sci.*111:136-143.
- Touqir, N. A., Khan, M. A., M. Sarwar, M. Nisa, W. S. Lee, H.J. Lee and H. S. Kim. 2007. Influence of varying dry matter and molasses levels on berseem and Lucerne silage characteristics and their In Situ digestion kinetics in Nili Ravi buffalo bulls. *Asian-Australasian J. Anim. Sci.*20:887-893.
- Touqir, N.A., M. A. Khan, M. Sarwar, M. Nisa, C.S. Ali, W. S. Lee, H.J. Lee and H.S. 2007. Kim. Feeding value of Jambo grass silage and Mott grass silage for lactating Nili buffaloes. *Asian-Australasian J. Anim. Sci.*20:523-528.

Abstracts (Foreign & National)

2006

- M.A. Shahzad, M. Sarwar and M. Nisa. 2006. Influence of altering dietary cation anion difference on milk yield and its composition by early lactating Nili Ravi buffaloes in summer. *J. Anim. Sci.* Vol. 84, Suppl. 1/J. Dairy Sci. Vol. 89, Suppl. 1.
- M.A. Shahzad, M. Sarwar and Mahr-un-Nisa. 2006. Effect of varying dietary cation anion difference on acid base status and occurrence of milk fever in buffaloes. XIIth AAAP Animal Science Congress 2006. September 18-22, Busan, Korea, page 85.
- M. Nisa, A. Suyfan, M. Sarwar and M.A. Shahzad. 2006. Influence of bovine somatotropin and varying levels of enzose on nutrients intake, digestibility, milk yield and its composition in mid-lactating Nili-Ravi buffaloes. *J. Anim. Sci.* Vol. 84, Suppl. 1. /*J. Dairy Sci.* Vol. 89, Suppl. 1.
- M. Sarwar, M.A. Shahzad and Mahr-un-Nisa. 2006. Influence of varying level of sodium bicarbonate on milk yield and its composition in early lactating Nili Ravi buffaloes. XIIth AAAP Animal Science Congress 2006. September 18-22, Busan, Korea, page 30.
- M. Sarwar, S. Ali Bhatti, M.A. Shahzad and Mahr-un-Nisa. 2006. Feedstuffs for livestock feeding in Pakistan. XIIth AAAP Animal Science Congress 2006. September 18-22, Busan, Korea, page 85.

- M. Sarwar, M.A. Shahzad and M. Nisa. 2006. Influence of altering dietary cation anion difference on growth performance of growing buffalo calves. *J. Anim. Sci.* Vol. 84, Suppl. 1/*J. Dairy Sci.* Vol. 89, Suppl. 1.
- Mahr- un- Nisa, M.A. Shahzad and M. Sarwar. 2006. Influence of altering dietary cation anion difference on nutrients intake, digestibilities and mineral balance in early lactating buffaloes XIIth AAAP Animal Science Congress 2006. September 18-22, Busan, Korea, page 75.
- Mushtaq, T., Sarwar, M., Ahmad, G., Nisa, M. U., Jamil, A. and Mirza, M.A. 2006. Performance and carcass responses of broiler chickens to exogenous multi-enzyme supplementation, sunflower meal and digestible lysine levels during one-to twenty eight days of age. XII Scientific Poultry Conf. Verona, Italy. Sept. 10-14th.

2007

- Ai,C.S., M. Sarwar., M. Aasif Shahzad and M. Nisa. 2007. Influence of altering non-protein nitrogen sources on rumen bacteria count. Proceedings: International Livestock and Poultry Congress. 27-28 March, Page. 125-127, Organized by Pakistan Veterinary Medical Association, Pearl Continental Hotel, Lahore, Pakistan
- Ali, C.S., M.A. Shahzad, M. Sarwar and M. Nisa. 2007. In Vitro dry mater digestibility as affected by varying non-protein nitrogen sources. Proceedings: International Livestock and Poultry Congress. 27-28 March, Page. 32-34, Organized by Pakistan Veterinary Medical Association, Pearl Continental Hotel, Lahore, Pakistan
- G. Ahmad, M. A. Mirza, U. Fraz and T. Mushtaq. 2007. Effect of graded supplementation of L-threonine on female broiler growth and carcass response during twenty one-to-forty two days of age. International Nutrition Conf. held at the University of Agriculture, Faisalabad. Feb. 23-24th.
- G. Ahmad, T. Mushtaq, M. Aslam Mirza and M. Athar. 2007. Comparison of various feed phosphates using growth of broilers as response criteria. International Nutrition Conf. held at the University of Agriculture, Faisalabad. Feb. 23-24th.
- Haroon, M, M.Nisa, M.A.Shahzad and M.Sarwar. 2007. Growth performance of broiler chicks fed high fiber diets supplemented with varying level of Rova Bio. International Nutrition Conference; Poultry Nutrition Section.23-24 February, Page. 48, University of Agriculture, Faisalabad, Pakistan.
- Iqbal, A. and Mirza, M. A. 2007. Causes of early mortality-Key management Factors. National seminar on Sheep and Wool Production in Pakistan held at Green's Garden Hotel, Abbottabad. June 20-21.
- Iqbal, A. and Mirza, M. A. 2007. Emerging droughts and small ruminants in Pakistan-Future outlook. 5th International Symp. on the Challenge to Sheep and Goats Milk Sectors. April. Italy.
- Iqbal, A., Mirza, M. A. and Raza, S. H. 2007. Role of buffalo in contributing milk and meat in Pakistan. Proc. 8th World Buffalo Congress. Oct. 19-22, Congress Centre, Caserta, Italy.
- Javaid, A., M. Nisa., M. Sarwar and M. Aasif Shahzad. 2007. Effect of different levels of ruminally degradable protein and ruminally degradable protein levels on nutrient intake, ruminal characteristics, digestibility, milk yield and reproductive performance of lactating buffaloes. Proceedings: International Livestock and Poultry Congress. 27-28 March, Page. 90-93, Organized by Pakistan Veterinary Medical Association, Pearl Continental Hotel, Lahore, Pakistan
- Javaid, A., M. Nisa., M. Sarwar, M. Aasif Shahzad and C.S. Ali. 2007. Effect of varying ruminally degradable protein levels on nutrient intake, digestibilities by Nili Ravi buffalo bulls. Proceedings: International Livestock and Poultry Congress. 27-28 March, Page. 86-89, Organized by Pakistan Veterinary Medical Association, Pearl Continental Hotel, Lahore, Pakistan
- Kaman, M. Sarwar, M. Nisa, M.A. Nadeem, S. Mahmood and M.A. Shahzad. 2007. Effect of Low Levels of Dietary Protein on Growth, Protein Utilization and Body Composition of Broiler Chicks During one to Twenty-Six Days of Age. International Nutrition Conference; Poultry Nutrition Section.23-24 February, Page. 49, University of Agriculture, Faisalabad, Pakistan.
- Mirza, M. A. and Iqbal, A. 2007. Weight loss in sheep-Some nutritional and unexplainable factors. National seminar on Sheep and Wool Production in Pakistan held at Green's Garden Hotel, Abbottabad. June 20-21.
- Mirza, M. A., Iqbal, A. and Raza, S.A. 2007. Contribution of small ruminants in ensuring food security and poverty reduction in Pakistan-Critical evaluation. 5th International Symp. on the Challenge to Sheep and Goats Milk Sectors. April. Italy.

- Mushtaq, T., Sarwar, M. Ahmad, G., Mirza, M. A. and Mushtaq, M. M. H. 2007. Influence of feed phosphates and phytase supplementation on broiler performance. Joint ADSA-PSA-AMPA-ASAS Meeting, July 8-12, 2007, San Antonio, Texas (Accepted for oral presentation).
- Nisa, M, M. Sharif, M.A. Shahzad and Z. Sarwar. 2007. Effect of cationic and anionic diets on nutrient intake, acid base status, milk yield and its composition in early lactating Nili Ravi buffaloes during winter. International Nutrition Conference; General Animal Nutrition Section.23-24 February, Page. 25, University of Agriculture, Faisalabad, Pakistan.
- Nisa, M, M.A.Shahzad, M.Sarwar and M.A.Khan. 2007. Nutrient intake, Digestion Kinetics and Digestibility in Buffalo Bulls fed Urea Treated Corncoobs Ensiled with or without Enzose (corn dextrose). International Nutrition Conference; General Animal Nutrition Section.23-24 February, Page. 26, University of Agriculture, Faisalabad, Pakistan.
- Nisa,M, M.Sarwar and M.A.Shahzad. 2007. Effect of replacing concentrate with enzose and corn steep liquor on nutrient intake, digestibility, and nitrogen balance in ruminally cumulated buffalo bulls fed corn cob based diet. Proceedings: International Livestock and Poultry Congress. 27-28 March, Page. 21-28, Organized by Pakistan Veterinary Medical Association, Pearl Continental Hotel, Lahore, Pakistan
- Sarwar, M, M. Nisa, M.A.Shahzad and M. Sharif. 2007. Nutrient intake, ruminal characteristics, nitrogen metabolism and in situ digestion kinetics in Nili Ravi buffalo bulls fed anionic and cationic diets. International Nutrition Conference; General Animal Nutrition Section.23-24 February, Page. 30, University of Agriculture, Faisalabad, Pakistan.
- Sarwar, M. M.Nisa, M.A. Shahzad and Z.Hassan. 2007. Effect of replacement of varying level of concentrate with urea molasses treated wheat straw ensiled with manure on ruminal characteristics, in situ digestion kinetics and nitrogen metabolism in Nili-Ravi buffalo bulls. International Nutrition Conference; General Animal Nutrition Section.23-24 February, Page. 24, University of Agriculture, Faisalabad, Pakistan.
- Sarwar, M., M. Aasif Shahzad, M. Nisa. 2007. Crop Livestock Systems Under Saline Environments. ICARDA-Workshop–Improving nutritional value of low quality fodders, forages and crop residues through biological and chemical means. May 24-26, Tashkent, Uzbekistan.
- Sarwar, M., M.A. Shahzad and M. Nisa. 2007. Serum minerals, mineral balance and occurrence of hypocalcemia in buffaloes fed varying level of dietary cation anion difference during winter. International Nutrition Conference; General Animal Nutrition Section.23-24 February, Page. 28, University of Agriculture, Faisalabad, Pakistan.
- Sarwar, M., M.A. Shahzad, M. Nisa and C.S. Ali. 2007. Biological and Chemical tools to improve the nutritive value of low quality forages/fodders and crop residues for ruminants. Proceedings: International Livestock and Poultry Congress. 27-28 March, Page. 6-12, Organized by Pakistan Veterinary Medical Association, Pearl Continental Hotel, Lahore, Pakistan
- Sarwar,M., M.A. Shahzad, M. Nisa and N.A.Tauqir. 2007. Silage characteristics and Chemical Composition of Jambo silage and its Fodder with different Additives and Fermentation Periods and their In Situ Digestion Kinetics in Nili Buffalo bulls. International Nutrition Conference; General Animal Nutrition Section.23-24 February, Page. 27, University of Agriculture, Faisalabad, Pakistan.
- Shahzad, M.A., M. Sarwar, M. Nisa and C.S. Ali. 2007. Reducing the occurrence of milk fever in buffaloes through dietary cation anion difference during summer. Proceedings: International Livestock and Poultry Congress. 27-28 March, Page. 77-82, Organized by Pakistan Veterinary Medical Association, Pearl Continental Hotel, Lahore, Pakistan
- Shahzad, M.A., M. Sarwar and M. Nisa. 2007. Acid base status and occurrence of milk fever in buffaloes fed varying level of dietary cation anion difference during winter. International Nutrition Conference; General Animal Nutrition Section.23-24 February, Page. 29, University of Agriculture, Faisalabad, Pakistan
- Shahzad, M.A., M. Sarwar, M. Nisa, M. Sharif and C.S. Ali. 2007. Nutrients intake, digestibilities and digestion kinetics in Nili Ravi buffalo bulls fed varying level of dietary cation anion difference. Proceedings: International Livestock and Poultry Congress. 27-28 March, Page. 70-73, Organized by Pakistan Veterinary Medical Association, Pearl Continental Hotel, Lahore, Pakistan.
- T. Mushtaq, H. Nawaz, Mirza, M. A., Athar, M., Mushtaq, M. M. H. Ahmad, G. and Noreen, U. 2007. Dietary salt combinations for broiler chickens under subtropical summer conditions: Live performance, carcass and blood responses. Joint ADSA-PSA-AMPA-ASAS Meeting, July 8-12, 2007, San Antonio, Texas (Accepted for oral presentation)

Yasmin, K, M.A. Nadeem, M. Sarwar, M.A. Shahzad and M. Nisa. 2007. Influence of phytase enzyme (Biofeed) supplementation on phosphorus bioavailability and growth performance of broiler chicks. International Nutrition Conference; Poultry Nutrition Section. 23-24 February, Page. 47, University of Agriculture, Faisalabad, Pakistan.

INSTITUTE OF SOIL & ENVIRONMENTAL SCIENCES

2006

- Ahmad, R., A. Khalid, M. Arshad, Z.A. Zahir and M. Naveed. 2006. Effect of raw (un-composted) and composted organic waste material on growth and yield of maize. *Soil & Environment* 25: 135-142.
- Ahmad, W., Rahmatullah, M. A. Maqsood and T. Aziz. 2006. Bioavailability of inorganic phosphorus fractions in calcareous soil estimated by Neubauer technique, iron impregnated filter paper and chemical tests. *Comm. Soil Sci. P. Anal.* 37:1185-1193.
- Ali, L., Rahmatullah, A. M. Ranjha, Tariq Aziz, M. Aamer Maqsood and M. Ashraf. 2006. Differential potassium requirements and its substitution with sodium in different cotton cultivars. *Pak. J. Agric. Sci.* 43 (3-4):108-113.
- Asghar, H. N., M. Ishaq, Z.A. Zahir, M. Khalid and M. Arshad. 2006. Response of radish to integrated use of nitrogen fertilizer and recycled organic waste. *Pakistan J. Bot.* 38:691-700.
- Basra, S.M.A., S. Anwar, I. Afzal, M. Shafique, M.A. Haq and K. Majeed. 2006. Effect of different seed invigoration techniques on wheat (*Triticum aestivum* L.) seeds sown under saline and non-saline conditions. *J. Seed Techno.* 28(1):36-46.
- Iqbal, M., A. Hassan and Rattan Lal. 2006. Nutrient content of maize and soil organic matter status under various tillage methods and farmyard manure levels. *Acta Agric. Scandinavica Section B. Soil and Plant Science.* 10.1080/09064710601029446
- Iqbal, M.A., A. Hassan and T. Aziz. 2006. Effect of mulch, irrigation and soil type on nutrient uptake of forage maize. *Pakistan J. Agric. Sci.* 43(1-2):13-20.
- Khan, M.A., R. Ansari, B. Gul, and M. Qadir. 2006. Crop diversification through halophyte production on salt-prone land resources. *CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources* 1 (048):1-8.
- Khurshid, K., M. Iqbal, M.S. Arif and A. Nawaz. 2006. Effect of tillage and mulch on soil physical properties and growth of maize. *Intl. J. Agric. Biol.* 8:593-596.
- Liaqat, A., Rahmatullah, A. M. Ranjha, T. Aziz, M. A. Maqsood and Ashraf. 2006. Differential Potassium requirement and its substitution by Sodium in cotton genotypes. *Pak. J. Agri. Sci.* 43(3-4):108-113.
- Nadeem, S.M., Z.A. Zahir, M. Naveed, M. Arshad and S.M. Shahzad. 2006. Variation in growth and ion uptake of maize due to inoculation with plant growth promoting rhizobacteria under salt stress. *Soil & Environment* 25: 78-84.
- Nawaz, I., Z. Hassan, A. M. Ranjha and M. Arshad. 2006. Exploiting genotypic variation among fifteen maize genotypes of Pakistan for potassium uptake and use efficiency in solution culture. *Pakistan J. Bot.* 38:1689-1696
- Pervaiz, M.A., M. Iqbal, A. Hassan and M. Q. Affan. 2006. Influence of mulch on soil physical properties and growth of maize (*Zea mays* L.) under two tillage systems. *Intl. J. Agric. Biol* (Accepted).
- Qadir, M., A.D. Noble, S. Schubert, R.J. Thomas, and A. Arslan. 2006. Sodicy-induced land degradation and its sustainable management: Problems and prospects. *Land Degradation and Development* 17: 661-676.
- Qadir, M., S. Schubert, A.D. Noble, M. Saqib, and Saifullah. 2006. Amelioration strategies for salinity-induced land degradation. *CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources* 1 (069):1-12.
- Rahmatullah, M. A. Gill, A. H. Wissemeyer and D. Steffens. 2006. Phosphate availability from phosphate rocks as related to nitrogen form and the nitrification inhibitor DMPP. *J. Plant Nut. Soil Sci.* 169:675-678.
- Ryan, J., S. Masri, and M. Qadir. 2006. Nutrient monitoring of sewage water irrigation: Impacts for soil quality and crop nutrition. *Communications in Soil Science and Plant Analysis* 37: 2513-2521.
- Shaharoon, B. R. Bibi, M. Arshad, Z.A. Zahir, and Zia-ul-Hassan. 2006. 1-Aminocyclopropane-1-carboxylate (ACC)-deaminase rhizobacteria extenuates ACC-induced classical triple response in etiolated pea seedlings. *Pakistan J. Bot.* 38:1491-1499.

- Shaharoon, B., R. Bibi, M. Arshad, Z.A. Zahir and Zia-ul-Hassan. 2006. !-Aminocyclopropane-1-carboxylate (ACC)-deaminase rhizobacteria extenuates ACC-induced classical triple response in etiolated pea seedlings. *Pakistan J. Bot.* 38: 1491-1499.
- Vishandas, Z. Hassan, M. Arshad and A. N. Shah. 2006. Phosphorus fertigation at first irrigation due to its unavailability at sowing time prevents yield losses in *Triticum aestivum* L. *Pakistan J. Bot.* 38:1439-1447
- Yaseen, M., M. Arshad and A. Khalid. 2006. Effect of acetylene and ethylene gases released from encapsulated calcium carbide on growth and yield of wheat and cotton. *Pedobiologia* 50: 405-411.

2007

- Ahmad, R., S. M. Shahzad, A. Khalid, M. Arshad and M. H. Mahmood. 2007. Growth and yield response of wheat (*Triticum aestivum* L.) and maize (*Zea mays* L.) to nitrogen and l-tryptophan enriched compost. *Pakistan J. Bot.* 39(2):541-549.
- Akhtar, M.J., H.N. Asghar, M. Asif and Z.A. Zahir. 2007. Growth and yield of wheat as affected by compost enriched with chemical fertilizer, L-tryptophan and rhizobacteria. *Pakistan J. Agric. Sci.* 44:136-140.
- Arshad, M., M. Saleem and S. Hussain. 2007. Perspectives of Bacterial ACC Deaminase in Phytoremediation. *Trends in Biotechnology* 25: 356-362.
- Aziz, T., Rahmatullah, Muhammad Aamer Maqsood, M. A. Tahir, I. Ahmad and M. A. Cheema. 2007. Phosphorus utilization by six Brassica cultivars (*Brassica juncea* L.) from tri-calcium phosphate; a relatively insoluble P compound. *Pak. J. Bot.* 38:1529-1538.
- Bilal, A., A. M. Ranjha, Rahmatullah and M. Rashid. 2007. Determining model based phosphorous fertilizer requirement for canola crop. *Pak. J. Agri. Sci.* 44(1): 110-116.
- Gill, M. A., Rahmatullah, M. Irfan and Muhammad A. Maqsood. 2007. Silicon requirement of coarse and fine varieties of rice. *J. Plant. Nutrition.* 30: 1-8.
- Hussain, A., G. Murtaza and A. Ghafoor. 2007. Determining internal and external P requirements of wheat on calcareous soils by adsorption isotherms. *Pakistan J. Agri. Sci.* 44(1):103-109.
- Hussain, S. M. Arshad, M. Saleem and Z. A. Zahir. 2007. Screening of soil Fungi to degrade endosulfan *in vitro*. 2007. *World J. Microbiol. and Biotech.* 23:939-945
- Hussain, S., M. Arshad, M. Saleem and Azeem Khalid. 2007. Biodegradation of endosulfan by soil indigenous soil bacteria. *Biodegradation* (DOI 10.1007/s10532-007-9102-1).
- Khan, A.U.H., M. Iqbal and K.R. Islam. 2007. Dairy manure and tillage effects on soil fertility and corn yields. *Bioresource Tech.* 98:1972-1979
- Mahmood, R., M. Yaseen, and M. Arshad. 2007. Effect of rate and time of calcium carbide application on nitrogen use efficiency of applied urea and growth of wheat. *Pakistan J. Bot.* 39(2):497-502.
- Nadeem, S.M., I. Hussain, M. Naveed, H.N. Asghar , Z.A. Zahir and M. Arshad. 2007. Performance of plant growth promoting rhizobacteria containing ACC-deaminase activity for improving growth of maize under salt-stressed conditions. *Pakistan J. Agric. Sci.* 43:114-121.
- Pervaiz, S., M. Saqib, J. Akhtar, M.A. Riaz, M.A. Haq and M. Nasim. 2007. Comparative growth and leaf ionic composition of four cotton (*Gossypium hirsutum* L.) genotypes in response to salinity. *Pak. J. Agri. Sci.*, 44(1):79-84.
- Qadir, M. B.R. Sharma, A. Bruggeman, R. Choukr-Allah, and F. Karajeh. 2007. Non-conventional water resources and opportunities for water augmentation to achieve food security in water scarce countries. *Agricultural Water Management* (in press).
- Qadir, M., A.S. Qureshi, and S.A.M. Cheraghi. 2007. Extent and characterization of salt-affected soils in Iran and strategies for their amelioration and management. *Land Degradation and Development* (in press).
- Qadir, M., B.R. Sharma, A. Bruggeman, R. Choukr-Allah, and F. Karajeh. 2007. Non-conventional water resources and opportunities for water augmentation to achieve food security in water scarce countries. *Agricultural Water Management* 87: 2-22.
- Qadir, M., S. Schubert, D. Badia, B.R. Sharma, A.S. Qureshi and G. Murtaza. 2007. Amelioration and nutrient management strategies for sodic and alkali soils. *CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources* 2 (021):1-13.

- Rashid, N., A. M. Ranjha, M. Waqas A. Hannan and A. Bilal. 2007. Effect of residual phosphorus on the yield and quality of sorghum fodder in three different textured calcareous soils. Pak. J. Agri. Sci. 44(1):117-122.
- Rehman, O., S. M. Mehdi, A. M. Ranjha and S. Sarfraz. 2007. Phosphorus requirements of Cereal Crops and Fertility Build up Factor in a Typic Camborthid Soil. J. Bio. Sci. p. 1-10.
- Ryan, J., S. Masri, and M. Qadir. 2007. Nutrient monitoring of sewage water irrigation: impact for soil quality and crop nutrition. Communication in Soil Science and Plant Analysis (in press).
- Shaharoon, B. G.M. Jamro, Z. A. Zahir, M. Arshad and K.S. Memon. 2007. Effectiveness of various *Pseudomonas* spp. and *Burkholderia caryophylli* containing ACC-deaminase for improving growth and yield of wheat (*Triticum aestivum* L.) J. Microbiol. and Biotech. (Accepted).
- Shaharoon, B., M. Arshad, and A. Khalid. 2007. Differential response of etiolated pea seedling to 1-aminocyclopropane-1-carboxylate and/or L-methionine utilizing rhizobacteria. J. Microbiol. 45(1):15-20
- Tahir, M. A., Rahmatullah, Tariq Aziz, M. Ashraf, S. Kanwal and M. Amer Maqsood. 2007. Beneficial effects of silicon in wheat (*Triticum aestivum* L.) under salinity stress. Pak. J. Bot. 38:1715-1722.
- Tahir, M., M. Arshad, M. Naveed, Z.A. Zahir, B. Shaharoon and R. Ahmad. 2006. Enrichment of organic waste with N fertilizer and PGPR containing ACC-deaminase for improving growth and yield of tomato. 2006. Soil & Environment 25: 105-112.
- Vyshpolsky, F., M. Qadir, A. Karimov, K. Mukhamedjanov, U. Bekbaev, R. Paroda, A. Aw-Hassan and F. Karajeh. 2007. Enhancing the productivity of high-magnesium soil and water resources through the application of phosphogypsum in Central Asia. Land Degradation and Development (in press).
- Waqas, M., A. M. Ranjha, Rahmatullah, A. Hannan and M. Rashid. 2007. Model based phosphorus fertilizer requirement of berseem (*Trifolium alexandrinum* L.) in Lyallpur soil series. Pak. J. Agri. Sci. 44(1):96-102.
- Zia, M.H., Saifullah, M. Sabir, A. Ghafoor and G. Murtaza. 2007. Effectiveness of sulphuric acid and gypsum for the reclamation of a calcareous saline-sodic soil under four crop rotations. J. Agron. & Crop Sci. 193:262-269.

COLLEGE OF AGRICULTURE, DERA GHAZI KHAN

2006

- Iqbal, M. Hussain, K.A., Iqbal, M. Munir, A. and M. Younis. 2006. Evaluation of Spray Uniformity Distribution by Environment Friendly University Boom Sprayer Test Bench. Pak. J. Agri. Sci., 43(1-2): 93-96.
- Maqbool M. M., A. Tanveer, Z. Ata and R. Ahmad. 2006. Growth and yield of Maize (*Zea mays*) as affected by row spacing and weed competition durations. Pak. J. Bot. 38(4): 1227-1236.

2007

- Iqbal, M. Ahmad, M. Ahmad, M. Iqbal, M. and M. Ali. 2007. Wheat Response to Tillage and Irrigation. Pak. J. Agri. Sci., 44(1): 164-167.
- Iqbal, M. Hussain, K.A. Ahmad, M. and M. Iqbal. 2007. Marketing and Economic Analysis of University Boom Sprayer. Pak. J. Agri. Sci., 44(1): 154-158.
- Iqbal, M. Inamullah, Ahmad, M. and M. Ahmad. 2007. Optimal Design of a Surface Pipe Drainage System. Pak. J. Agri. Sci., 44(1): 159-163.
- Maqbool M. M., A. Tanveer, Z. Ata and R. Ahmad. 2007. Growth and yield response of Maize to inter and intra-row weed competition under different fertilizer application method. Weed Biology and Management (Accepted for publication in December 2007 Edition)
- Subhani M. N., Chaudhary, M.A. and F. Muhammad. 2007. Screening of Promising varieties/lines of Chickpea against Fusarium wilt. Pak. J. of Phytopathology. (Accepted for publication in September 2007 Edition)

SUB-CAMPUS UNIVERSITY OF AGRICULTURE, FAISALABAD AT DEPALPUR, OKARA

2006

- Ahmad, W., Rahmatullah, M. A. Gill and Tariq Aziz. 2006. Bioavailability of inorganic phosphorus fractions in calcareous soils estimated by Neubauer technique, iron impregnated filter paper and chemical tests. *Commun. Soil Sci. Plant Anal.* 37:1185-1193. (USA).
- Ahmad, W., Rahmatullah, S. Kanwal and Tariq Aziz. 2006. Phosphorus desorption/release kinetics from different depths of calcareous soils by iron-coated filter paper strips. *J. Botany* 1(1): 117-123.
- Ali, A., Rahmatullah, Tariq Aziz, M. Ashraf and M. A. Tahir. 2006. Differential potassium requirements and its substitution with sodium in different cotton cultivars. *Pak. J. Agric. Sci.* 43 (3-4): 108-113.
- Tahir, M. A., Rahmatullah, Tariq Aziz, M. Ashraf, S. Kanwal and M. A. Maqsood. 2006. Beneficial effects of silicon in wheat (*Triticum aestivum* L.) under salinity stress. *Pak. J. Bot.* 38(5): 1715-1722..
- Tariq Aziz, Rahmatullah, M. A. Maqsood, M. A. Tahir, I. Ahmad and M. A. Cheema. 2006. Phosphorus utilization by six Brassica cultivars (*Brassica juncea* L.) from tri-calcium phosphate; a relatively insoluble P compound. *Pak. J. Bot.* 38(5): 1529-1538.

2007

- Pervaiz, S., M. Saqib, J. Akhtar, M. A. Riaz, M.A. Haq and M. Nasim. 2007. Comparative growth and leaf ionic composition of four cotton (*Gossypium hirsutum* L.) genotypes in response to salinity. *Pak. J. Agric. Sci.* 44(1): 79-84.

Abstracts Published in National and International Conferences

2006

- Ali, L., Rahmatullah, Tariq Aziz, M. A. Maqsood, S. Kanwal and M. Sabir. 2006. Does sodium increase plant growth under potassium deficiency? A hydroponic study with 30 cotton cultivars. Abs. p. 44. Presented at Intl. Conference on Sustainable Crop Production on Salt-affected Lands on 4-6 December at SARC, Univ. of Agriculture, Faisalabad, Pakistan.
- Ashraf, M., Rahmatullah, Tariq Aziz and M. A. Maqsood. 2006. Response of salt sensitive and salt tolerant cultivars of sugarcane to salinity and silicon nutrition. Abs. p. 43. Presented at Intl. Conference on Sustainable Crop Production on Salt-affected Lands on 4-6 December at SARC, Univ. of Agriculture, Faisalabad, Pakistan.
- Ashraf, M., Rahmatullah, Tariq Aziz and M. A. Tahir. 2006. Response of salt sensitive and salt tolerant cultivars of sugarcane to salinity and potassium nutrition. Abs. p. 40. International Symposium on Strategies for Crop Improvement against Abiotic Stresses, 18-20 September, Dept. of Botany, University of Agriculture, Faisalabad, Pakistan.
- Hassan, Z. U., M. Arshad, M. Arif and Tariq Aziz. 2006. Phosphorus fertigation: A recent advancement in bridging the yield gaps under phosphorus nutrition stress in Pakistan. Abs. p. 49. International Symposium on Strategies for Crop Improvement against Abiotic Stresses, 18-20 September, Dept. of Botany, University of Agriculture, Faisalabad, Pakistan.
- Maqsood, M.A., Rahmatullah, Tariq Aziz and S. Kanwal. 2006. Genotypic variations in cotton for zinc use efficiency presented in First Joint Conference on "Plant Breeding Meets Plant Nutrition" held on 26-28th September at University of Hohenheim, Stuttgart, Germany.
- Tahir, M.A., Rahmatullah and Tariq Aziz. 2006. Effect of silicon on yield of coarse and fine rice varieties grown at two salinity levels. Abs. p. 38. International Symposium on Strategies for Crop Improvement against Abiotic Stresses, 18-20 September, Dept. of Botany, University of Agriculture, Faisalabad, Pakistan.
- Tahir, M.A., Rahmatullah and Tariq Aziz. 2006. Salinity and silicon interaction in two wheat genotypes differing in salt tolerance. Abs. p. 3. International Symposium on Strategies for Crop Improvement against Abiotic Stresses, 18-20 September, Dept. of Botany, University of Agriculture, Faisalabad, Pakistan.

- Tahir, M.A., Rahmatullah, M. Faraz, Tariq Aziz, M. Ashraf and H. Faiq. 2006. Effect of Silicon on coarse and fine varieties of rice grown at two salinity levels. Abs. p. 41. Presented at Intl. Conference on Sustainable Crop Production on Salt-affected Lands on 4-6 December at SARC, Univ. of Agriculture, Faisalabad, Pakistan.
- Tariq Aziz, Rahmatullah, M.A. Maqsood and S. Kanwal. 2006. Genotypic differences in phosphorus absorption and utilization rates of twenty rice (*Oriza sativa* L.) cultivars presented in First Joint Conference on "Plant Breeding Meets Plant Nutrition" held on 26-28th September at University of Hohenheim, Stuttgart, Germany.
- Tariq Aziz, Rahmatullah, S. Kanwal and M. A. Maqsood. 2006. Genotypic variations among Brassica cultivars in their phosphorus acquisition from rock phosphate. Abs. p. 26. International Symposium on Strategies for Crop Improvement against Abiotic Stresses, 18-20 September, Dept. of Botany, University of Agriculture, Faisalabad, Pakistan.

**RESEARCH
PUBLICATIONS
PUBLISHED
2007-08**

FACULTY OF AGRICULTURE

Department of Plant Breeding and Genetics

Research publications, journals and books

2007

- Ali, Z., A. Salam, F.M. Azhar and I.A. Khan. 2007. Genotypic variation in salinity tolerance among spring and winter wheat (*Triticum aestivum* L.) accessions. *South African J. Bot.* 73: 70-75.
- Ashraf, M.I. and I.A.Khan. 2007. Expression of heterosis for some economic traits in upland cotton (*G. hirsutum* L.). *Sci. Int. (Lahore)* 19(1): 59-60.
- Azhar, F. M., A. A. Khan and N. Saleem. 2007. Genetic mechanisms controlling salt tolerance in *Gossypium hirsutum* L. seedlings. *Pak. J. Bot.* 39(1): 115-121
- Azhar, F.M., A. Hussain and A. Shakeel. 2007. Combining ability of plant characters related to earliness in *Gossypium hirsutum* L. *J. Agri. Sco. Sci.* 3(2): 63-66.
- Iqbal A., A.S.Khan, I. A. Khan, F. S. Awan, A. Ahmad and A. A. Khan. 2007. Study of Genetic divergence among wheat genotypes through RAPD. 2007. *Genetics and Molecular Research* 6(3): 476-481.
- Kashif, M. and F.A. Khan. 2007. Divergence in sugarcane (*Saccharum officinarum* L.) based on yield and quality traits. *Pak. J. Botany.* 39(5): 1559-1563.
- Khan, F.A., F.M. Azhar, I. Afzal and S. Rauf. 2007. Effect of nitrogen regimes on combining ability in oil and protein contents in cotton seed (*G. hirsutum* L.). *Plant Prod. Sci.* 10(3): 367-371.
- Khan, F.A., M.Y. Iqbal and M. Sultan. 2007. Morphogenetic behaviour of some agronomic traits of *Saccharum officinarum* L. *Pak. J. Agri. Sci.* 44(4): 600-603.
- Malik, T.A., A. Iqbal, M.A. Chowdhry, M. Kashif and S. Rahman. 2007. DNA marker for leaf rust disease in wheat. *Pak. J. Bot.* 39: 239-243.
- Munir, M., M.A. Chowdhry and T.A. Malik. 2007. Correlation studies among yield and its components in bread wheat under drought conditions. *Int. J. Agri. Biol.* 9: 287-90.
- Nawaz-ul-Rehman, M. S., A. A. Khan, S. Mansoor, Y. Zafar and R. Briddon. 2007. RNAi-mediated male sterility of tobacco. *Molecular Biotechnology*, 36(2): 159-165
- Rauf, S., H.A. Sadaqat and I.A. Khan. 2007. Effect of Moisture Regimes on Combining Ability Variations of Seedling Traits in Sunflower (*Helianthus annus* L.). *Canadian Journal of Plant Sciences.* 88: 323-329.
- Saeed, A., K. Hayat, A. A. Khan and S. Iqbal. 2007. Heat tolerance studies in tomato (*Lycopersicon esculantum* Mill.). *Int. J. Agric. Biol.*, 9(4): 649-652
- Saeed, A., K. Hayat, A. A. Khan, S. Iqbal and G. Abass. 2007. Assessment of genetic variability and heritability in (*Lycopersicon esculantum* Mill.). *Int. J. Agric. Biol.*, 9(2): 375-77
- Tabassum, M.I., M. Saleem, M. Akbar, M.Y. Ashraf and N. Mahmood. 2007. Combining ability studies of maize hybrids under normal and water stress condition. *J. Agri. Res.* 45(4): 261-268.
- Tassawar, H., I.A. Khan, and A. Zulfiqar. 2007. Study of Gene Action and combiningabilities for thermotolerant abilities of corn (*Zea mays* L.). *Int. J. Plant Prod.* 1(1): 1-12 GUASNR. Iran.
- Younis, A., M. A. Khan, A. Ali Khan, A. Riaz and M. A. Pervaiz. 2007. Effect of Different Extraction Methods on Yield and Quality of Essential Oil from Four Rosa Species. *Floriculture and Ornamental Biotechnology* 1(1): 73-76. ISSN 1749-0294.

2008

- Ahmad, N., M. Maekawa and I.J. Tetlow. 2008. Effects of low temperature on grain filling, amylase content and activity of starch biosynthesis enzymes in endosperm of basmati rice. *Australian J. Agric. Res.*
- Ahsan, M., H. Hussain, M. Saleem, T.A. Malik and M. Aslam. 2007. Gene action and progeny performance for various traits in maize. *Pak. J. Agri. Sci.* 44: 608-613.
- Ahsan, M., M.Z. Hader, M. Saleem and M. Aslam. 2008. Contribution of various leaf morpho-physiological parameters towards grain yield in maize. *Int. J. Agri. Biol.*, 10(3): 546-550.
- Akbar, M., M. Saleem, F.M. Azhar, M.Y. Ashraf and R. Ahmad. 2008. Combining ability studies in maize under normal and high temperature stress. *J. Agri., Res.* 46(1): 27-38.

- Ali, M. A. and I. A. Khan. 2007. Assessment of genetic variation and inheritance Mode of some Metric Traits in Cotton (*G. hirsutum* L.). *J. Agri. & Sue. Sci.* 3-4; 112-116.
- Ali, M. A., I. A. Khan, S. I. Awan, S. Iqbal, S. Ali and S. Niaz. 2008. Genetic of fibre quality traits in Cotton (*G. hirsutum* L.) *Aust. J. Crop Set.* 2(1): 10-17.
- Khaliq, I., A. Irshad and M. Ahsan. 2008. Awns and flag leaf contribution towards grain yield in spring wheat (*Triticum aestivum* L.). *Cereal Research Communications, Hungary* 1:65-76.
- Khan, A.I., I.A. Khan and H.A. Sadaqat. 2008. Heat tolerance is variable in cotton (*G. hirsutum* L.) and can be exploited for breeding of better yielding cultivars under high temperature regimes.
- Nishimura, Hideki; Ahmed, Nisar; Tsugane, Kazuo; Iida, Shigeru; Maekawa, Masahiko. 2008. Distribution and mapping of an active autonomous a Dart element responsible for mobilizing nonautonomous nDart1 transposons in cultivated rice varieties. *Theor. Appl. Genet.* 116: 395-405.
- Rahman, S. and T.A. Malik. 2008. Genetic analysis of fibre traits in cotton. *Int. J. Agri. Biol.* 10: 209-212.
- Younis, A., M. A. Khan, A. Ali Khan, A. Riaz and M. A. Pervaiz. 2008. Extraction and Identification of Chemical Constituents of the Essential Oil of Rosa species. *Acta Hort.* 766: 485-492
- Zia, M.A., K. Rahman, M.K. Saeed, F. Andaleeb, M.I. Rajoka, M.A. Sheikh, LA. Khan and A.I. Khan. 2007. Thermal characterization of purified glucose oxidase from a newly isolated *Aspergillus niger* UAF-I. *J. Clin. Biochem., Nutr.* 41: 132-138.

Accepted in Pak. J. Botany (2008)

2007

- Yousaf, M.S., Zia-ur-Rahman, M.A. Sandhu, S.A. Bukhari and A. Yousaf. 2007. Comparison of the fast-induced and high dietary zinc-induced molting: Trace elements dynamics in serum and eggs at different production stages in chickens (*Gallus domesticus*). *J. Anim. Physiol. Anim. Nutri.* (Accepted) (Impact Factor 1.075).
- Zia-ur-Rahman, N. Ahmad, S.A. Bukhari, N. Akhtar and I.U. Haq. 2007. Serum hormonal, electrolytes and trace elements profiles in the rutting and non-rutting one humped male camel (*Camelus dromedarius*). *Animal Reproduction Science.* 101: 172-178 (Impact Factor 2.186).
- Zia-ur-Rehman, S.A. Bukhari, N. Ahmad, N. Akhtar, A. Ijaz and I.U. Haq. 2007. Dynamics of follicular fluid in one-humped camel (*Camelus dromedaries*). *Reproduction in domestic animals.* (In press) (Impact Factor 1.503).

Papers presented in the national/international seminars/conferences/ workshops/ symposia

2007

- A.S. Khan 2007. Participated in the training course on "Project Management" from 10-12Dec, 2007" organized by Pakistan Planning Commission Institute and UAF.
- Khan, A.A. 2007. Developing of TILLING population in cowpea. Plant Cell Biology Training Program Retreat. Stanford Sierra Camp, Fallen Leaf Lake, California, USA. September 14-16, 2007
- Khan, A.A. 2007. Molecular markers for crop breeding. Agricultural Biotechnology Research Institute, AARI, Faisalabad.
- Khan, I.A. 2007. Chaired a session in Regional Consultation on Biotech Cotton for Risk Assessment and opportunities for small scale cotton growers. Organized by (CFC/1CAC 34 FT) Faisalabad, Pakistan (6-8 March, 2007).
- Khan, I.A. 2007. Participated One Day National Workshop on Plant Variety Protection. Organized by UPOV Convention. MINFAL, GoP, Islamabad (20 Jan., 2007).
- Khan, S.H. 2007. Higher Education Strategic Partnership Workshop. Organized by British Council in Lahore (26th November).
- Malik, T.A. 2007. Application of polymerase chain reaction in molecular biology. In "National Training Course, Integration of Modern Biotechnology Tools with Conventional System of Crop Genetic Improvement. Organised by the CABB, University of Agriculture Faisalabad.
- Malik, T.A. 2007. BT cotton in Pakistan. In the "Regional Consultation on Genetically Modified Cotton for Risk Assessment and Opportunities for Small-scale Cotton Growers" Organized by NIBGE, Faisalabad (6-8 March, 2007)

- Malik, T.A. 2007. Frego bract: An important insect resistant traits in cotton. In the National Conference on Cotton Production (2-3 may, 2007) Organized by NIBGE, Faisalabad.
- Malik, T.A. 2007. Frontiers in Plant Transformation to Model Crop Performance in Changing Environments. In "National Training Course, Integration of Modern Biotechnology Tools with Conventional System of Crop Genetic Improvement. Organised by the CABB, University of Agriculture Faisalabad.

2008

- Faryal, S., I.A. Khan, A. A. Khan and G. Muhammad. 2008. Within species (intraspecific) variation in *Staphylococcus aureus* as revealed by R-APD markers. Poster presentations. Organized by 2nd National Conference on Health Biotechnology, PAS, Islamabad (27-28 May, 2008).
- Malik, T.A. 2008. DNA marker for nectariless traits in upland cotton. In the "International Conference of Plant Scientist, Organized by the Pakistan Botanical Society (21-24 April, 2008) in Faisalabad.
- Malik, T.A. 2008. Inheritance of frego bract and its linkage with fibre and seed traits in upland cotton. In the "International Conference of Plant Scientist, Organized by the Pakistan Botanical Society (21-24 April, 2008) in Faisalabad.
- Malik, T.A. 2008. Mapping of insect resistant loci and chromosome in cotton. In the "Recent Advances in Agricultural Biotechnology" Organized by National Commission on Biotechnology, Islamabad (18-19 March, 2008).

Department of Agri. Entomology

2007

- Afzal, M. and M.H. Bashir. 2007. Collection of new species of the subgenus *Phytoseius* (*Phytoseius*) *Ribaga* from coastal and subtropical continental low lands of Pakistan. *Pak. J. Agri. Sci.*, 44(1-2): 141-145.
- Afzal, M. and m.h. Bashir. 2007. Influence of certain leaf characters of some summer vegetables with incidence of predatory mites of the family *Cunaxidae*. *Pak. J. Bot.* 39(1): 205-209.
- Ahmed, S. and M. Irfanullah. 2007. Toxicity of pyrethroids coadministered with sesame oil against housefly *Musca domestica* L. *Intl. J. Agri. Biol.*, 9: 782-784.
- Ahmed, S., F. Ahmad, M.A. Riaz, O. Rehman and A. Hussain. 2007. Some studies on the cultural and chemical control of maize stem borer (*Chilo partellus* Swin.), short fly (*Atherigona soccata* Rond.) and termites in maize (*Zea mays*) at Distt. Sahiwal, Punjab, Pakistan. *Pak. J. Agri. Sci.*, 44 (3) : 493-497.
- Ahmed, S., M.A. Riaz and A. Hussain. 2007. Assessment of the damage and population of termites (*Odontotermes unicolor*) under various methods of insecticide application. *Intl. J. Agri. Biol.*, 9: 125-128.
- Ahmed, S., M.A. Riaz, A.H. Malik and M. Shahid. 2007. Effect of seed extracts of *Withania somnifera*, *Croton tiglium* and *Hygrophila auriculata* on behavior and physiology of *Odontotermes obesus* (Isoptera: Termitidae). *Biologia Bratislava*, 62/2: 770-773.
- Ahmed, S., R.R. Khan and M.A. Riaz. 2007. Some studies on the fields performance of plant extracts against Termites (*Odontotermes guptai* and *Microtermes obesi*) in Sugarcane at Faisalabad. *Int. J. Agri. Biol.*, 9(3): 398-400.
- Akram, W. 2007. *Aedes* a vector of dengue: an emerging disease in Pakistan. *American mosquito control Association*, April 01-05-2007
- Akram, W., Aftab Hussain and Jong-Jin Lee. 2007. Source reduction mosquito surveillance program evaluating out breaks and disease incidence in the urban and rural area. *ICIBI August 19-24-2007, Daegu, South Korea.*
- Akram, W. Faisal Hafeez and jong-Jin Lee. 2007 *Aedes* mosquito an emerging problem in Pakistan. *ICIBI August 19-24-2007, Daegu, South Korea.*
- Arshad, M. and A. Suhail. 2007. Farm appraisal and farmer's perception to insect pests incidence and their management practices in Bt. Cotton in Punjab, Pakistan. *International Congress of Insect Biotechnology and Industry, August 19-24, Daegu, Korea.*

- Arshad, M. and A. Suhail. 2007. Biodiversity of sucking insect fauna in cotton in district Multan, Punjab, Pakistan. International Congress of Insect Biotechnology and Industry, August 19-24, Daegu, Korea. Abstract accepted.
- Arshed, M., A. Suhail, M. Asghar, M. Tayyab and F. Hafeez. 2007. Factors influencing the adoption of Bt cotton in the Punjab, Pakistan. *J. Agric. Soc. Sc.*, 3(4): 121-124.
- Ashfaq M. and M.D. Gogi. 2007. Silkworm rearing: a profitable cottage industry in Pakistan. Proceeding of the Seminar on Technology Transfer. Faculty of Agri. Economics & Rural Sociology, University of Agriculture, Faisalabad. pp 22-33.
- Ashfaq M. 2007. Integrated Pest Management with special reference to Eco-friendly techniques for sustainable crop production in Pakistan. International Conference of the Entomological Society of Japan on 15-17 September, 2007.
- Ashfaq, M., j. Iqbal, A. Ali and U. Farooq. 2007. Role of Abiotic Factors in population eluctuation of aphids on wheat. *Pak. Entomol.*, 29(2): 119-124.
- Ashfaq, M., M. Hassan, B. Salman, W. Salman and N. Rana. 2007. Some studies on the efficiency of *Chrysoperla carnea* against aphid, *Brevicoryne brassicae*, infesting canola. *Pak. Entomol.*, 29(1): 37-41.
- Ashfaq, M., M. Ishfaq, W. Akram, J.J. Lee. 2007. Assessment of spray technology for the control of desert locust, *Schistocerca gregaria* (Orthoptera: Acrididae) to establish minimum requirements. International Congress of Insect Biotechnology and Industry, August 19-24, 2007.
- Bashir, M.H. and M. Afzal. 2007. A new cunaxid mite of genus *Pulaeus* (Cunaxidae) from Punjab, Pakistan. *Pak. J. Zool.*, 39(1): 17-20.
- Bashir, M.H., M. Afzal and A.B.M. Raza. 2007. Record of a new species *Cunaxoides sargodhaensis* from leaf debris. *Pak. Entomol.*, 29(): 43-48.
- Khan R.R., B. Ahmed and S. Ahmed. 2007. Comparative efficacy of neem seed powder granules and the Insecticides against *Chilo partellus* SWIN. (Pyralidae: Lepidoptera) on Autumn Maize. *Pak. Entomol.* 29(1): 33-36.
- Khan R.R., S. Ahmed, M.W. Saleem and M. Nadeem. 2007. Field Evaluation of Different Insecticides against Spotted Bollworms *Earias* spp. at District. Sahiwal.
- Khan, M.R.U., M. Afzal and M.H.Y. Bashir. 2007. Description of a new mite of the genus *Amblyseius* (Acari: Phytoseiidae) from District Poonch, Azad Kashmir. *Pak. Entomol.*, 29(2): 147-150.
- Mansoor-ul-Hassan, Ehsan ullah, Muhammad Sagheer and Ghulam Ghouse. 2007. Some studies on the integration of chemical control with Biological control for cotton insect pests management. *Pak. J. Agri. Sci.*, 44(2): 277-282.
- Mansoor-ul-Hassan, Muhammad Sagheer and Muhammad Asif. 2007. Management of citrus leaf miner, *Phyllocnistis citrella* stnt using IGRs and synthetic insecticides. *Proc. Inter. Sympos. Prospects of Horti. Indu. Pak.*, 28-30, March, 2007. pp 157-164.
- Nasree, A., M. Ashfaq, G. Mustafa and R.R. Khan. 2007. Mortality rates of five commercial insecticides on *Chrysoperla carnea* (Stephens) (Chrysopidae: Neuroptera). *Pak. J. Agri. Sci.*, 44(2): 266-271.
- Razaq, M., A. Suhail, M. J. Arif, M. Aslam and A. H. Sayyed. 2007. Effect of rotational use of insecticides on pyrethroids resistance in *Helicoverpa armigera* (Lep.: Noctuidae). *J. Appl. Entomol.*, 13(7): 460-465.
- Sabri, M. A. and M. Afzal. 2007. Identity and distribution of a new tetranychid mite (*Petrobia afzali*) from Punjab, Pakistan. *Pak. Entomol.*, 29(2): 135-140.
- Shahid, M.R., A. Suhail, M.J. Arif, M.D. Gogi, M.A. Shahzad and S. Hussain. 2007. Effectiveness of *Trichogramma chilonis* (Ishii) (Hymenoptera:Trichogrammatidae) against sugarcane stem borer (*Chilo infuscatellus* (Lepidoptera:Pyralidae)). *Pak. Entomol.* 29(2):141-146.
- Suhail, A. and M. Arshad. 2007. Comparative studies on the external morphology of three species of the Genus *Acrotylus* Fiber (Orthoptera). International Congress of Insect Biotechnology and Industry, August 19-24, Daegu, Korea.
- Suhail, A., A. M. Sabir and M. Arshad. 2007. Floral association of bumble bees for pollination in Northern Pakistan. International Congress of Insect Biotechnology and Industry, August 19-24, Daegu, Korea.
- Suhail, A., M Arshad, Zain-ul Abidin and M. Asghar. 2007. Taxonomic studies on *Microgasterine* (Braconidae: Hymenoptera) of the Punjab, Pakistan. X European Workshop on Insect Parasitoids. September 17- 21, 2007, University of Palermo, Erice (TP), Italy. p.79.

- Suhail, A., M. D. Gogi, M. J. Arif, M. Arshad and M. Sarfraz. 2007. Effect of various treatments of azadirachtin, spinosad and abamectin on the haemogram of *Coccinella septempunctata* L. (Coleoptera: Coccinellidae). *Pak. Entomol.*, 29(2): 151-164.
- Wakil, W. M. Ashfaq, Y.JU. Kwon. 2007. A regional IPM strategy to control of *Helicoverpa armigera* caterpillars to insecticides on chickpea (*Cicer arietinum*). *International Congress of Insect Biotechnology and Industry*, August 19-24, 2007. *Ento. Res.*, 37(1): pp A51-A52.
- Wakil, W., M. Hassan, F. Bashir and M. Sagheer. 2007. Comparative efficacy of different grain protectants against *Tribolium castaneum* under two sets temperature and humidity. *Integrated Protection of Stored Products, IOBC/WPRS, Bulletin*, 30(2): 273-279.

2008

- Arshed, M., A. Suhail, M. Asghar and M. D. Gogi. 2008. Fate of Bt cotton in Punjab, Pakistan with reference to farmer's perception. 2nd Congress on Insect Science. *Pest Magement in Global Context*, Agriculture University, Ludhiana, India. Febuary 21- 22, 2008. p.114.
- Suhail, A., A. M. Sabir, M Arshad and M. Asghar. 2008. Bumblebees' floral association in Northern Pakistan. 2nd Congress on Insect Science. *Pest Magement in Global Context*, Agriculture University, Ludhiana, India. Febuary 21- 22, 2008. p.297.

Department of Forestry

Research publications, journals and books

2007

- Chaudhry. A.K., Khan, G.S., and Ahmad. I. 2007. Effect of popular tree intercropping at various densities on the post harvest soil nutrient contents. *Pak. J. Agri. Sci.* 44(3): 468-471.
- Chaudhry. A.K., Khan, G.S., and Ahmad. I. 2007. Comparison of economic returns from popular-wheat, fodder maize intercropping to monoculture. *Pak. J. Agri. Sci.* 44(3): 459-463.
- Khan, G. S., Chaudhry. A.K. 2007. Effect of spacing and plant density on the growth of popular (*Populus deltoids*) trees under Agro-Forestry system. *Pak. J. Agri. Sci.* 44(2),321-327.
- Khan, G.S., Chaudhry. A.K., Ahmad. I. and Nawaz, M.F. 2007. Sproting percentage and growth behaviour of *Morus alba* as affected by size of cuttings and polythene tunnel. *Pak. J. Agri. Sci.* 44(3): 328-331.
- Khan. Z.H, A. Majeed., A.U.R. Tocee, S. Yaqoob and Z. Aslam. 2007. Response of some cool season range grasses to different levels of salinity at their germination stage. *Pak. J. Agri. Sci. Vol*, 59.
- Khan. Z .H, A. Majeed., A. H. Shah, M. Safeer., S. Yaqoob and R. A. Khan. 2007. Establishment and growth studies of *Acacia ampliceps* Maslin under the combined effects of salinity and water levels. *Pak. J. Agri. Sci. Vol*, 59.

2008

- Hafeez. S., Khan. T.H., Khan. T.N., Shahibaz. M. and Ahmed., M. 2008. Use of Reflector ribbon as a pest birds repellent in wheat and maize crop. *J.Agr. Soc.Sci.*4: 92-94.
- Ishaque, M., R.F.Beck and R.D.Pieper. 2008. Nutritional suitability of viscid and whitethorn acacia for ruminants. *Canadian Journal of Plant Science*, 88(2): 299-306.
- M. T. Siddiqui., A. H. Shah and M. A. Tariq. 2008. Effects of fertilization and water stress on *Eucalyptus camaldulensis* seedlings.
- M. T. Siddiqui and A. H. Shah. 2008. Crown sequence and crown strata effects of fertilization and nutrient concentration in teak plantation. *Pak. J. of Botany* (in press).
- Nouman. W., Khan, G. S., Khan. T.H., and Hasnain. F. 2007. Farmer's views and perception about agroforestry in district Faisalabad. *Pak. J. Agri. Sci.* 44(3): 464-467.
- Shahid H, Khan. Z.H., Khan. R.A., Qadir. I. and Khan. M.A. 2007. Studies of Multimirror Reflector and Distress sound player (auto-reverse) as bird pest repellants. *Pak. J. Agri. Sci. Vol*, 44(1).
- Shahid H, Khan. Z. H., Khan. R. A., Qadir. I. and Fahad. R. 2007. Comparative efficacy of some trap for controlling porcupines, wild boars and other vertebrate pests. *Pak. J. Agri. Sci. Vol*, 44(1).

English Article:

2008

- Ahmad, M. and M. Ishaque. 2008. Protective role of forests. The post vista, P.10
- Ahmad, M. and M. Ishaque. 2008. Productive role of forests. The Nations, Money plus, P.12-13
- Ahmad, M. and M. Ishaque. 2008. Organic cotton cultivation. The Nations, Money plus, P.17-20
- Ahmad, M. and M. Ishaque. 2008. Budget 2008-2009 and farmers. The Nations, Money plus, P.12-13
- Ahmad, M. and M. Ishaque. 2008. Integrated weed management in field crops. The Nations, Money plus, P.18-20
- Ahmad, M. and M. Ishaque. 2008. Organic Agriculture: need of the hour. The post vista, P.7
- Ahmad, M. and M. Ishaque. 2008. Water resources: conservation and management. The post vista, P.11
- Ahmad, M. and M. Ishaque. 2008. Permaculture. The Nations, Money plus, P.20-21
- Ahmad, M. and M. Ishaque. 2008. Competitive advantage in growing organic tea. Dawn Economic and Business Review, P.3
- Ishaque, M., and M. Ahmad, 2008. Biofuels: Challenges and opportunities. Dawn Economic and Business Review, P. 3.
- Khan R.A. and Akram M., 2008. Saving mango from mealy bug. Daily Dawn., Feb. 4, 2008.
- Khan R. A., 2008. Ideal insect pest control strategy is to kill the mother stock just after over wintering. Submitted to daily Dawn for publication.
- S. Yaqoob and Khan Z. H., 2008. Agro-grazing in irrigated Punjab. Daily Dawn., March 24, 2008.

Urdu Article:

2007

- Khan. R. A., "Namiati Murkabat say Fasil kie Paidawar Barhain" Submitted to Jhang News paper for publication.
- Khan. R.A and Fahad Rasheed., Sohanjana (Morinja olifera) Hamageer Safhat say Malamal Drakhat Zari Digest.
- M. Ayyoub Tanvir, H. Masood and Waqas Akram. 2007. "Shajar Kari: Mulki Maishat ka Stoon". (Urdu Article) Zari Digest March 2007. University of Agriculture, Faisalabad. 4(41): 54-54.
- M. Ayyoub Tanvir, M. Tahir Siddiqui and H. Masood. 2007. "Nursery ki Ahmiat aur Ifadiat". (Urdu Article) Monthly Kissan Times (ABC certified), December 2007. Head office 12-Larance Road, Lahore. 4(8): pp25.
- S. Yaqoob & Khan.R.A., "Bans ki Kasht" Published as leaflet by Zari digest by University of Agriculture, Faisalabad.

Department of Agronomy

Research Publications, Journals and Books

2007

- Ahmad, A.H., I. Qadir and N. Mahmood. 2007. Effect of integrated use of organic and inorganic fertilizers on fodder yield of sorghum (sorghum bicolor L.) Pak. J. Agri. : Vol. 44 (3): 415-419
- Anjum F.H., A. Tanveer, M. Tahir, M. A. Nadeem and A. Ali. 2007. Growth and yield response of Gossypium hirsutum to plant spacing and Trianthema portulacastrum density. Int. J. Agri. Biol. 9 (4) : 559-563
- Anjum F.H., A. Tanveer, M.A. Nadeem, M. Tahir and A. Aziz. 2007. Effect of split application of nitrogen and integrated weed management on nutrient uptake by Trianthema portulacastrum (Itsit) in cotton. Pak. J. Agri. Sci., 44(3) : 423-427.
- Anjum F.H., A. Tanveer, R. Ahmad, A. Ali, M.A. Nadeem and M. Tahir. 2007. Response of cotton (Gossypium hirsutum L.) to split application of nitrogen and weed control methods. Indian J. Agric. Sci. 77 (4) : 224-229.

- Ayub, M., M.A. Nadeem, A. Tanveer, M. Tahir and R. M. A. Khan. 2007. Interactive effect of different nitrogen levels and seeding rates on fodder yield and quality of pearl millet. Pak. J. Agri. Sci., 44(4) : 592-596.
- Basra, S.M.A., M. Farooq, H. Rehman and B.A. Saleem. 2007. Osmopriming improves the germination and early seedling growth of melons (*Cucumis melo* L.). Pak. J. of Agri. Sci.
- Cheema, Z.A., A. Khaliq, M. Abbas and M. Farooq. 2007. Allelopathic potential of sorghum (*Sorghum bicolor* L.) cultivars for weed management. Allelopathy Journal, 20(1): 167-178.
- Ehsanullah, N. Akbar, A. Iqbal and M. R. Mohsin. 2007. Effect of different planting patterns on the growth and yield of two varieties of sesame. Pak. J. Agric. Sci. 44: 584-586.
- Ehsanullah, N. Akbar, K. Jabran and T. Habib. 2007. Comparison of different planting methods for optimization of plant population of fine rice (*Oryza sativa* L.) in Punjab (Pakistan). Pak. J. Agric. Sci. 44: 597-599.
- Farooq M., S.M.A. Basra and M.B. Khan. 2007. Seed priming improves growth of nursery seedlings and yield of transplanted rice. Archives of Agronomy and Soil Science. 53(2-3): 311-322.
- Farooq, M., S. M.A. Basra, H. Rehman, M. Hussain and Y. Amanat. 2007. Pre-sowing salicylate seed treatments improve the germination and early seedling growth in fine rice. Pak. J. Agri. Sci. 44(1):16-23.
- Farooq, M., S.M.A. Basra, M. Hussain, H. Rehman and B.A. Saleem. 2007. Incorporation of polyamines in the priming media enhances the germination and early seedling growth in hybrid sunflower (*Helianthus annuus* L.). Int. J. Agri. Biol. 9: 868-872.
- Hussain, M., G. Yasin., A. Ali and R. Ahmad. 2007. Amelioration of toxic effects of Lead (Pb) and Chromium (Cr) in four black gram (*Vigna mungo* L.) Hepper Cultivars with the appreciation of kinetin. Pak. J. Agri. Science, Vol. 44 (2), 251-258.
- Iqbal, J. and Z.A. Cheema. 2007. Effect of allelopathic crops water extracts on glyphosate dose for weed control in cotton (*Gossypium hirsutum*). Allelopathy Journal, 19(2): 403-410.
- Iqbal, J. and Z.A. Cheema. 2007. Intercropping of field crops in cotton for the management of purple nutsedge (*Cyperus rotundus* L.). Plant and Soil, 300: 163-171
- Khaliq, A., G. Shahzad and M. N. Mushtaq. 2007. Integrated weed management in fennel (*Foeniculum vulgare* Mill.) grown at four seed rates. Proc. 21st Asia Pacific Weed Sci. Soc. Conf. (Editors: B. Marambe, U.R. Sangkkara, W.A.J.M. De Costa and A.S.K. Abeyasekara), 2-6 October 2007, Colombo, Sri Lanka.
- L. Ali and Ehsanullah. 2007. Seed cotton yield and water use efficiency of cotton (*Gossypium hirsutum* L.) sown in different planting methods. Pak. J. Agric. Sci. 44: 571-574.
- L. Ali and Ehsanullah. 2007. Water use efficiency of different planting methods in cotton (*Gossypium hirsutum* L.) J. Agric. Res., 45:299-303.
- M. Arshad, A., Wajid, M. Maqsood. 2007. Response of growth, yield and quality of different cotton cultivars to sowing dates. Pakistan. Pak. J. Agri. Sci.44 (2): 208-212.
- M.A. Shahzad, W. Din, S.T. Sahi, M. Khan, Ehsanullah and M. Ahmad. 2007. Effect of sowing dates and seed treatment on grain yield and quality of maize. Pak. J. Agric. Sci. 44: 581-583.
- Munir, M.A., M.A. Malik and M. F. Saleem. 2007. Impact of integration of crop manuring and nitrogen application on growth, yield and quality of spring planted sunflower. Pak. J. Bot., 39 (2) : 441- 449.
- Tahir M., A. Ali, M.A. Nadeem. A. Tanveer and Q.M. Sabir. 2007. Performance of Canola (*Brassica napus* L.) under different irrigation levels. Pak. J. Bot. 39(3) 259-264.
- Wajid, A., A. Ghaffar, M. Maqsood. 2007. Yield response of maize hybrids to varying nitrogen rates. Pak. J. Agri. Sci. 44 (2) : 217-220.
- Wajid, A., K. Hussain, M. Maqsood, A. Ahmad and A. Hussain. 2007. Influence of drought on water use efficiency in wheat in semi arid region of Pakistan. Pak. J. Soil. Sci., Vol. 26(1), 2007.
- Wajid, A., K. Hussain, M. Maqsood, T. Khaliq. 2007. Simulation modeling of growth, development and grain yield of wheat under semi arid condition of Pakistan. Pak. J. Agri. Sci. 44 (27): 194-199.

2008

- Afzal, I., S.M.A. Basra, M. Shahid, M. Farooq and M. Saleem. 2008. Priming enhances germination of spring maize (*Zea mays* L.) under cool conditions. Seed Science and Technology. 36, 497-503.

- Ahmad, S., M. Zia-Ul-Haq, H. Ali, S.A. Shad, A. Ahmad, M. Maqsood, M. B. Khan, S. Mehmood and A. Hussain. 2008. Water and radiation use efficiencies of transplanted rice at different plant densities and irrigation regimes under semi-arid environment. *Pak. J. Bot.*, 40 (1):199-209
- Ayub, M., M.A. Nadeem, A. Tanveer, M. Tahir, M. T. Y. Saqib and R. Nawaz. 2008. Effect of different sowing methods and times on the growth and yield of fennel (*foeniellum vulgare* Mill) *Pak. J. Bot.*, 40 (1): 259-264.
- Farooq, M., S.M.A. Basra, H. Rehman and B.A. Saleem. 2008. Seed priming enhances the performance of late sown wheat (*Triticum aestivum* L.) by improving the chilling tolerance. *J. Agron. Crop Sci.* 194, 55-60.
- Farooq, M., T. Aziz, M. Hussain, H. Rehman, K. Jabran and M.B. Khan. 2008. Glycinebetaine improves chilling tolerance in hybrid maize. *J. Agron. Crop Sci.* 194, 152–160.
- Farooq, M., T. Aziz, S.M.A. Basra, M.A. Cheema and H. Rehman. 2008. Chilling tolerance in hybrid maize induced by seed priming with salicylic acid. *J. Agron. Crop Sci.* 194, 161–168.
- Hussain, M., M.A. Malik, M. Farooq, M.Y. Ashraf and M.A. Cheema. 2008. Exogenous application of glycinebetaine and salicylic acid improves drought tolerance in sunflower. *J. of Agro. Crop Sci.* 194, 193–199.
- Iqbal, S., A. Ahmad, A. Hussain, M.A. Ali, T. Khaliq and S. A. Wajid. 2008. Influence of transplanting date and nitrogen management on productivity of paddy cultivars under variable environments. *Int. J. Agri. & Bio.*, 10(3):288-292
- Jabran, K., Z.A. Cheema, M. Farooq and S.M.A. Basra, M. Hussain and H. Rehman. 2008. Tank mixing of allelopathic crop water extracts with pendimethalin helps in the management of weeds in canola (*Brassica napus*) field. *International Journal of Agriculture and Biology* 10, 293-296.
- M. Maqsood, S. S., Alam, M.U., Hassan and M. Saleem. 2008. Effect of planting techniques variable application of nitrogen on the yield components and quality of wheat. *J. Chem. Soc. Pak.* 30 (3): 458-462.
- Nadeem, M.A., R. Ahmad, M. Khalid, M. Naveed, A. Tanveer and J.N. Ahmad. 2008. Growth and yield response of autumn planted maize (*Zea mays*) and its weed to doses of herbicide application in combination with urea *Pak. J. Bot.* 40 (2) : 667-676.
- Saleem, M. F., B. L. Ma, M.A. Malik, M.A. Cheema and M.A. Wahid. 2008. Yield and quality response of autumn planted sunflower to sowing dates and planting patterns. *Can. J. Plant Sci.*, 88 : 101- 109.
- Saleem, M. M. Maqsood and A. Hussain. 2008. Impact of integrated plant nutrition and irrigation scheduling on the yield and quality of cotton. *Pakistan. Pak. J. Agri. Sci.* 45 (2). 2008.
- Tanveer, A., M. Tahir, M.A. Nadeem, M. Younis, A. Aziz and M. Yaseen. 2008. Allelopathic effects of *Xanthium strumarium* L. on seed germination and seedling growth of crops. *Allelopathy journal* 21 (2): 317-328.

Department of Crop Physiology

Research publications, journals and books

2007

- Wahid, A., M. Parveen, S. Gelani and S.M.A. Basra. 2007. Pretreatment of seeds with H₂O₂ improves salt tolerance of wheat seedling by alleviation of oxidative damage and expression of stress proteins. *Journal of Plant Physiology* 164(3): 283-294 (IF#1.054)
- Farooq, M., S.M.A. Basra and H. Rehman. 2007. Seed priming improves growth of nursery seedlings and yield of transplanted rice. *Archives of Agronomy and Soil Science* April – June 2007; 53(2-3): 311 – 322 (IF#0.93)
- Afzal, I., S.M.A. Basra, M. Shahid, M. Farooq and M. Saleem. 2007. Priming enhances germination of spring maize (*Zea mays* L.) under cool conditions. *Seed Science and Technology* 36-2: 497-503 (IF#0.441)
- Farooq, M., S.M.A. Basra, H. Rehman and B.A. Saleem. 2007. Seed priming enhances the performance of late sown wheat (*Triticum aestivum* L.) by improving chilling tolerance. *Journal of Agronomy and Crop Sciences*, 194: 55-60 (IF#0.565)
- Afzal, I., S.M.A. Basra, N. Ahmad and T.E. Lodhi. 2007. Counteraction of salinity stress on wheat plants by pre-sowing seed treatments. *Pakistan Journal of Agricultural Sciences.* 44 (1): 50-58.

- Afzal, I., S.M.A. Basra, T.E. Lodhi and S. Butt. 2007. Improving germination and seedling vigor in wheat under saline conditions by halopriming. *Pakistan Journal of Agricultural Sciences*. 44(1): 40-49.
- Fayyaz-UI-Hassan, Abdul Manaf, Ghulam Qadir and Shahzad M.A. Basra. 2007. Effects of Sulphur on Seed Yield, Oil, Protein and Glucosinolates of Canola Cultivars. *International Journal of Agriculture & Biology* 9(3): 504-508
- Waraich, E. A., R. Ahmad, Saifullah and M. Sabir. 2007. Nitrogen Nutrition and water stress effects on growth, yield and water use efficiency of wheat (*Triticum aestivum* L.). *Pakistan Journal of Agricultural Sciences*. Pak. J. Agri. Sci., 44 (1):64-73
- Waraich, E. A., R. Ahmad, Anser Ali and Saifullah. 2007. Irrigation and nitrogen effects on grain development and yield in wheat (*Triticum aestivum* L.). *Pak. J. Bot.* 39(5): 1663-1672.
- Waraich, E.A., R. Ahmad, M. Ashraf and Saifullah. 2007. Irrigation and Nitrogen effect on grain yield, yield components and water use efficiency of wheat (*Triticum aestivum* L.). *Pakistan Journal of Scientific Research*.59 (3-4): 91-97.
- Jamal. A., M. Akhtar, E.A. Waraich and M.A. Zahid. 2007. Genotypic and Phenotypic correlations among various plant traits in rice hybrids (*Oryza Sativa* L.). *Science International*. 19(4): 287-290.
- Hesham O., B. Venkatesh, B. Dale, R. Ahmad, C. Ransom, J. Oehmke, M. Sticklen. 2007. Enhanced conversion of plant biomass into glucose using transgenic rice-produced endoglucanase for cellulosic ethanol. *Transgenic Res* (2007) 16:739–749
- Anjum, F.H., A. Tanveer, R. Ahmad, A. Ali, M.A. Nadeem and M. Tahir. 2007. Response of Cotton (*Gossypium Hirsutum*) to split application of nitrogen and weed control methods. *Indian J. of Agricultural Sciences* 77 (4) 224-229
- Riaz A., A. Younis, M. Hameed, M. A. Khan, R. Ahmad and A. Raza. 2007. Assessment of biodiversity based on morphological characteristics among wild rose genotypes. *Pak. J. Agric. Sci.* 44(2): 295-299.
- Hussain, M., G. Yasin, A. Ali and R. Ahmad. 2007. Amelioration of toxic effects of Lead (Pb) and Chromium (Cr) in four black gram (*Vigna mungo* L.) cultivars with the application of Kinetin. *Pak. J. Agric. Sci.* 44(2): 251-258
- Rauf S., T.M. Khan, A. Naveed and H. Munir. 2007. Modified path to high lint in upland cotton(*Gossypium hirsutum* L.) under two temperature regimes. *Turkish Journal of Biology*. (Turkey) 31: 119-126.

2008

- Afzal, I., S. Rauf, S.M.A. Basra and G. Murtaza. 2008. Halopriming improves vigor, metabolism of reserves and ionic contents in wheat seedlings under salt stress. *Plant and Soil Environment*, 54, 2008 (9): 382–388.
- Farooq, M., S.M.A. Basra, H. Rehman and M. Hussain. 2008. Seed Priming with Polyamines Improves the Germination and Early Seedling Growth in Fine Rice. *Journal of New Seeds* 9(2): 145-155.
- Afzal, I., S.M.A. Basra, M. Shahid, M. Farooq and M. Saleem. 2008. Priming enhances germination of spring maize (*Zea mays* L.) under cool conditions. *Seed Science and Technology* 36-2: 497-503.
- Farooq, M., A. Wahid, N. Kobayashi and Shahzad M.A. Basra. 2008. Plant drought stress: effects, mechanisms and management. *Agronomy for Sustainable Development*. 03/04/2008.
- Farooq, M., S.M.A. Basra, H. Rehman and B.A. Saleem. 2008. Seed priming enhances the performance of late sown wheat (*Triticum aestivum* L.) by improving chilling tolerance. *Journal of Agronomy and Crop Sciences*, 194: 55-6.
- Farooq, M., T. Aziz, S.M.A. Basra, M.A. Cheema and H. Rehman. 2008. Chilling tolerance in hybrid maize induced by seed priming with salicylic acid. *Journal of Agronomy and Crop Sciences* 194: 161–168
- Farooq, M., T. Aziz, M. Hussain, H. Rehman and K. Jabran and M. B. Khan. 2008. Glycinebetain improves chilling tolerance in hybrid maize. *J. Agron. and Crop Sci.*, 194: 152-160.

Department of Plant Pathology

Research publications, journals and books (please send information regarding title, Vol. No., author name and do not send abstracts)

2007

- Anwar S.A. and M.V. McKenry. 2007. Variability in reproduction of four populations of *Meloidogyne incognita* on six cultivars of cotton. *J. Nematol.* 39:105-110.

- Anwar S.A. and N. Javed 2007. Induced resistance in plants by nematodes. Pak. J. Nematol. 25:79-85.
- Anwar. S.A., A. Zia, M. Hussain and M. Kamran. 2007. Host suitability of selected plants to *Meloidogyne incognita* in the Punjab, Pakistan. Int. J. of Nematol. 17:144-150.
- Ashfaq, M., M. Aslam Khan, S. M. Mughal, N. Javed. 2007. Evaluation of Urdbean germplasm for resistance against urdbean leaf crinkle virus. Pak. J. Bot. 39:2103-2111.
- Atiq, M., M. Aslam Khan and S.T. Sahi. 2007. Screening of citrus germplasm for the sources of resistance against canker disease caused by *Xanthomonas axonopodis* pv. *citri*. Pakistan Journal of Phytopathology 19:222-226.
- Burhan, M., M. A. Khan, R. Jamel and M. Ishfaq. 2007. Comparison of seed potato from different rapid multiplication sources against PVX, PVY and PVS through enzyme linked immunosorbent assay. Pakistan Journal of Phytopathology 19:110-112.
- Chaduhry, M. A, M. B. Ilyas and M. U. Ghazanfar. 2007. Screening of urdbean germplasm for the source of resistance against urdbean leaf crinkle virus. Mycopath 5:1-4.
- Chaduhry, M. A, M. B. Ilyas, F. Muhammad and M. U. Ghazanfar. 2007. Source of resistance in chickpea germplasm against *Fusarium* wilt. Mycopath 5:17-21.
- Ghazanfar, M.U., S.T. Sahi, M.B. Ilyas and M.A. Randhawa. 2007. Influence of sowing dates on CLCuV incidence in some cotton varieties. Pakistan Journal of Phytopathology 19:177-180.
- Ghazanfar, M.U., S.T. Sahi., M. B. Ilyas and A. Waseem. 2007. In vitro evaluation of different toxicants against *Erwinia* associated with black leg disease of potato. Pakistan Journal of Phytopathology 19:01-06.
- Hafeez-Ullah, M., M.A. Khan, S.T. Sahi and A. Habib. 2007. Evaluation of plant extracts against charcoal rot of sunflower caused by *Macrophomina phaseolina* (Tassi) Goid. Pakistan Journal of Phytopathology 19:113-117.
- Haq. I.U., M. Aslam Khan and M.I. Haq. 2007. Effect of agricultural wastes, incubation time, pH and temperature variations on mycelial biomass production of *Volvariella volvacea* in liquid culture. Pakistan Journal of Phytopathology 19:227-230.
- Ilyas, M. B. M.A. Choudhry and N. Javed. 2007. Sources for resistance in chickpea germplasm against cultivar to *Ascochyta* blight. Pakistan Journal of Botany 39:1843-1847.
- Ilyas, M.B.T. Naveed, M. Inam-ul-Haq, N. Javed and S. M. Mughal. 2007. Chemotherapeutic control of post harvest decay of kinnow mandarin and lemon caused by *Penicillium digitatum* Sacc. Pakistan Journal of Botany 39:961-965.
- Ilyas, M. B., C. A. Khan, M. U. Ghazanfar and M. A. Khan. 2007. Post-harvest losses in apple and banana during transport and storage. Pakistan Journal of Agricultural Sciences 44:534-538.
- Ilyas, M.B. T. Naveed, M. Inam-ul-Haq, N. Javed and S.M Mughal. 2007. Chemotherapeutic control of postharvest decay of kinnow mandarin and lemon caused by *Penicillium digitatum* Wehmer. Pakistan Journal of Botany 39:961-965.
- Ilyas. M. B., M. A. Shakoore, N. Javed, and M. U. Ghazanfar. 2007. Sources of multiple resistances in chickpea germplasm against *Ascochyta* blight, *Fusarium* wilt and stunt virus diseases. International Journal of Biology and Biotechnology 4:231-235.
- Imran-ul-haq, M. Aslam Khan and M. Inam-ul-Haq. 2007. Effect of agricultural wastes, incubation time, pH and temperature variation on mycelial biomass production of *Volvariella volvacea* in liquid culture. Pakistan Journal of Phytopathology 19:227-230.
- Inam-ul-Haq, M., S.R. Gowen, N. Javed, F. Shahina, M. Izhar-ul-Haq, N. Humayoon and B. Pembroke. 2007. Antagonistic Potential of Bacterial isolates Associated with Entomopathogenic Nematodes against Tomato Wilt caused by *Fusarium oxysporum* f.sp. *lycopersici* under Greenhouse Conditions. Pak. J. Botany. 39(1): 279-283.
- Javed N., S. A. Anwar, M. Inam UL-Haq and R. Ahmad. 2007. Mortality of second stage juveniles of *Meloidogyne javanica* by aqueous and ethanol neem extracts. Pakistan Journal of Nematology 25:181-187.
- Javed, N. M. Javed S. A. Anwar and R. A. Chohan. 2007. Population dynamics of citrus nematodes *Tylenchulus semipenetrans* over a year at Post Graduate Agricultural Research station, Faisalabad. Pakistan Journal of Phytopathology 19:94-97.
- Javed, N. S. R. Gowen, M. Inam-ul-Haq and S. A. Anwar. 2007. Protective and curative effect of neem formulations against root-knot nematode. Crop Protection 26:530-534.

- Javed, N., M. Javed, S.A. Anwar, R.A. Chohan. 2007. Population dynamics of citrus nematodes *Tylenchulus semipenetrans* in citrus orchards in different citrus growing districts of the Punjab. *Pakistan Journal of Phytopathology* 19:90-93.
- Javed, N., S.R. Gowen, M. Inam-ul-haq and S.A. Anwar. 2007. Protective and curative effect of neem (*Azadirachta indica*) formulations on the development of root-knot nematode *Meloidogyne javanica* in roots of tomato plants. *Crop Protection* 26:530-534.
- Javed, N., S.R. Gowen, M. Inam-ul-haq, K. Abdullah and F. Shahina. 2007. Systemic and persistent effect of neem (*Azadirachta indica*) formulations against root-knot nematodes *Meloidogyne javanica* and their storage life. *Crop Protection* 26:911-916.
- Javed, N., Said El Hassan, S. Gowen, B. Pembroke, M. Inam-Ul-Haq 2007. The potential of combining *Pasteuria penetrans* and neem (*Azadirachta indica*) formulations as a management system for root-knot nematodes on tomato. *European Journal of Plant Pathology* 120:53-60.
- Javed, N., Said El-Hassan, S. Gowen, B. Pembroke and M. Inam-ul-Haq. 2007. The potential of combining *Pasteuria penetrans* and neem (*Azadirachta indica*) formulations as a management system for root-knot nematodes on tomato. *European Journal of Plant Pathology* (in Press). (Received 12 March 2007/ Accepted 19 July 2007). DOI 10.1007/s10658-007-9196-7.
- Khan, M. A. and M. Abid. 2007. Effect of environmental conditions on citrus canker disease development. *Pakistan Journal of Phytopathology* 19:139-144.
- Khan, M. A., M. M. Haider, S. Ahmad and M. Hussain. 2007. Slow rusting response of different wheat genotypes against leaf rust in relation to epidemiological factors in Faisalabad. *Pakistan Journal of Phytopathology* 19:23-33.
- Khan, M.A., M.S. Shahid and M. Hussain. 2007. Screening of wheat germplasm against leaf and stripe rust virulences in Faisalabad. *Pakistan Journal of Phytopathology* 19:118-122.
- Sahi. S.T, M.U. Ghazanfar, M. Afzal and A. Habib. 2007. Incidence of Citrus Canker Disease Caused by *Xanthomonas campestris* pv. *citri* (Hasse) Dows on Kinnow (*Citrus reticulata*) in Punjab and its Chemotherapy. *Pakistan Journal of Botany* 39:1319-1327.
- Sahi. S.T, M.U. Ghazanfar, M. Afzal, A. Habib and M.B. Ilyas. 2007. Role of N, P and K contents in resistance against *Ascochyta* blight of lentil (*Lens culinaris* Medik) *Pakistan Journal of Botany* 39:2175-2181.
- Sahi. S.T., M.U. Ghazanfar, and M. N. Tahir. 2007. Physiology of *Erwinias* associated with black leg of potato. *Pakistan Journal of Agricultural Sciences* 44:259-265.
- Sajid, M. N., M. Aslam Khan, S.T. Sahi and M. Hussain. 2007. Quantification of leaf and stripe rust genes in wheat genotypes. *Pakistan Journal of Phytopathology* 19:231-237.

2008

- Abbas, W., S.A. Anwar, A. Zia, and N. Javed. 2008. Response of four tomato cultivars to *Meloidogyne incognita* infection and its chemical management. *Pak. J. Nematol.* 26:37-43.
- Bokhari, A.A. and S.T. Sahi. 2008. In vivo, studies on the biological and chemical control of guava decline caused by different soil borne pathogens. *Pak. J. Agri. Sci.* 45(1): 23-27.
- Javed, N. M. Javid, M. M. Khan and A. Riaz 2008. Influence of soil pH on the movement and infection rate of juveniles of citrus nematodes (*Tylenchulus semipenetrans*). *Pakistan Journal of Phytopathology* 20:156-158.
- Javed, N. S.R. Gowen S. A. El-Hassan, M. Inam ul Haq, F. Shahina and B. Pembroke, 2008. Efficacy of neem (*Azadirachta indica*) formulations on biology of root-knot nematodes (*Meloidogyne javanica*) on tomato. *Crop protection* 27:36-43.
- Javed, N., S. A. Anwar, Shahina, F. M. M. Khan and M. Ashfaq 2008. Effect of neem formulation applied as soil drenching on the development of root knot nematodes *Meloidogyne javanica* on roots of tomato. *Pakistan Journal of Botany* 40:905-910.
- Javed, N., S.R. Gowen, S.A. El-Hassan, M. Inam-ul-Haq, F. Shahina and B. Pembroke. 2008. Efficacy of neem (*Azadirachta indica*) formulations on biology of root-knot nematodes (*Meloidogyne javanica*) on tomato. *Crop Protection* 27:36-43.
- Javid, N., S. A. Anwar, S. Faiz, M. M. Khan, and M. Ashfaq. 2008. Effects of neem formulations applied as soil drenching on the development of root-knot nematode, *Meloidogyne javanica* on roots of tomato. *Pakistan Journal of Botany* 40:905-910.

- Raheel, M., S.A. Anwar, M. Iqbal, and A. Zia. 2008. Management of powdery mildew of mango by various fungicides. *Pakistan Journal of Phytopathology* 20:173-174.
- Waseem, A., S. A. Anwar, A. Zia and N. Javed. 2008. Response of four tomato cultivars to *Meloidogyne incognita* infection and its chemical management. *Pakistan Journal of Nematology* 26:37-43.
- Zia, A., S. A. Anwar, and W. Abbas. 2008. Root knot nematode, *Meloidogyne incognita* associated with six varieties of sugar beet. *International Journal of Nematology* 18:71-74.

INSTITUTE OF HORTICULTURAL SCIENCES

Research publications, journals and books.

2007

- Ahmad, I., and A.U. Malik. 2007. Comparative studies on the performance of two commercial mango cvs under ambient and storage. *The International Journal of life Science Methods*.1 (4): 463-467.
- Ahmad, I., K. Ziaf, M. Qasim and M. Tariq. 2007. Comparative evaluation of different pinching approaches on vegetative and reproductive growth of carnation (*Dianthus caryophyllus*). *Pakistan Journal of Agricultural Sciences* 44(4): 563-570.
- Ahmad, I., T. Ahmad, M.S. Zafar and A. Nadeem. 2007. Response of zinnia elegans cv. Giant dahlia flowered to different levels of nitrogen. *Sarhad Journal of Agriculture* 23(2): 309-312.
- Ahmed, W., M.A. Nawaz, M.A. Iqbal and M.M. Khan. 2007. Effect of different rootstocks on plant nutrient status and yield in kinnow mandarin (*Citrus reticulata* Blanco). *Pakistan Journal of Botany* 39 (5): 1779-1786.
- Ali, M.A., M. Siddiq, S. Ahmad, and M.A. Hanif. 2007. Protein and fat contents of various *Pleurotus* species raised on different waste materials. *Pakistan Journal of Agricultural Sciences* 44 (3): 440-442.
- Ali, M.A., M.I. Mehmood, R. Nawaz, M.A. Hanif and R.Waseem. 2007. Influence of substrate pasteurization methods on the yield of oyster mushroom (*Pleurotus*.species,). *Pakistan Journal of Agricultural Sciences* 44 (2): 300-303.
- Amin, M., A.U. Malik, N. Din and A. Jabbar. 2007. Mango soft nose disorder and fruit quality in relation to pre and Postharvest treatments. *The International Journal of life Science Methods*.1 (4): 455-462.
- Amjad, M., K. Ziaf, Q. Iqbal, I. Ahmad, M.A. Riaz and Z.A. Saqib. 2007. Effect of seed priming on seed vigour and salt tolerance in hot pepper. *Pakistan Journal of Agricultural Sciences* 44(3): 408-414.
- Anwar, R. and A.U. Malik. 2007. Evaluation of fungicide, hot water treatment and packaging effects in mango supply chain. *The International Journal of life Science Methods*.1 (4): 444-449.
- Batool, A., Y. Iftikhar, S.M. Mughal, M.M. Khan, M.J. Jaskani, M. Abbas and I.A. Khan. 2007. Citrus greening disease- a major cause of citrus decline in the world – a review. *HortScience (Prague)* 34(4): 159-166.
- Fatima, B., M. Usman, T. Ashraf, R. Waseem and M.A. Ali. 2007. In vitro shoot generation from cotyledon and Hypocotyl Explants of *Dhalia* cultivars. *Pakistan Journal of Agricultural Sciences* 44 (2): 312-303.
- Jaskani, M.J., I.A. Khan, M.M. Khan and H. Abbas. 2007. Frequency of Triploids in different interploidal crosses of citrus. *Pakistan Journal of Botany* 39 (5): 1517-1522.
- Khan, A.S. and Z. Singh. 2007. 1-MCP regulates ethylene biosynthesis and fruit softening during ripening of 'Tegan Blue' plum. *Postharvest Biology and Technology* 43: 298-306.
- Khan, A.S. and Z. Singh. 2007. Methyl jasmonate promotes fruit ripening and improves fruit quality in Japanese plum. *Journal of Horticultural Sciences and Biotechnology* 82: 695-706.
- Khan, A.S., Z. Singh and N.A. Abbasi. 2007. Pre-storage putrescine application suppresses ethylene biosynthesis and retards fruit softening during low temperature storage in 'Angelino' Plum. *Postharvest Biology and Technology* 46: 36-46.
- Maqbool, M. and A.U. Malik. 2007. Sap dynamics and its management in commercial mango cvs of Pakistan. *Pakistan Journal of Botany* 39:1565-1574.
- Maqbool, M. and A.U. Malik. 2007. Anti-sap chemicals reduce sapburn injury and improve fruit quality in commercial mango cultivars of Pakistan. *International Journal of Agriculture and Biology* 10:1-8.
- Naz, A.A., M.J. Jaskani and H. Abbas. 2007. In vitro studies on micrografting technique in two cultivars of citrus to produce virus free plants. *Pakistan Journal of Botany* 39(5): 1773-1778.

- Shahla, S., M.A. Ali, M.I. Mehmood and R.Waseem. 2007. Correlation between the sizes of polypropylene bags and the yield of *Pleurotus ostreatus*. *Pakistan Journal of Agricultural Sciences* 44 (2): 317-320.
- Riaz, A., A. Younis, M. Hameed, M.A. Khan, R. Ahmed and A. Raza. 2007. Assessment of biodiversity based on morphological characteristics among wild rose genotypes. *Journal of Agricultural Sciences* 44(1-2), 295-299.
- Waseem, K., M.Q. Khan, J. Jaskani and M.S. Khan. 2007. Impact of different auxins on the regeneration of chrysanthemum (*Dendranthema morifolium* L.) through in vitro shoot tip culture. *Pakistan Journal of Agricultural Research* 20: 51-57.
- Younis, A., A. Riaz and M.A. Pervez. 2007. Effect of different extraction methods on yield and quality of essential oil from four *Rosa* species. *Floriculture and Ornamental Biotechnology* 1(1):73-76.

2008

- Abbas, M., M.M. Khan, B. Fatima, Y. Iftikhar, S.M. Mughal, M.J. Jaskani, I.A. Khan and H. Abbas. 2008. Elimination of Citrus tristiza virus Closterovirus (CTV) and production of certified citrus plants through shoot tip micrografting. *Pakistan Journal of Botany* 40 (3): 1301-1312.
- Ahmad, I., M.A. Hanif, R. Nadeem, M.S. Jamil and M.S. Zafar. 2008. Nutritive evaluation of medicinal plants being used as condiments in South Asian region. *Journal of Chemical Society of Pakistan* 30(3): 400-405.
- Amin, M., A.U. Malik, M.S. Mazhar, I. Din, M. Shafiq and S. Ahmad. 2008. Mango fruit desapping in relation to time of harvesting. *Pakistan Journal of Botany* 40(4):1587-1593.
- Anwar, R., A.U. Malik, M. Amin, A. Jabbar and B.A. Saleem. 2008. Packaging material and ripening methods affect mango fruit quality. *International Journal of Agriculture and Biology* 10(1):35-41.
- Iqbal, Z., K. Ahmad, Z. Khan, E. Ealhi, V.M. Maqoob and M.A. Pervez. 2008. Variability among isolates of fungus mangiferae associated with malformation disease of mango. *Pakistan Journal of Botany* 49(1): 445-452.
- Jaskani, M.J., H. Abbas, M.M. Khan, M. Qasim, R. Sultana and I.A. Khan. 2008. Effect of growth hormones on micropropagation of *Vitis vinifera* L. cv. Perlette. *Pakistan Journal of Botany* 40(1): 105-109.
- Khan, A.S. and Z. Singh. 2008. 1-Methylcyclopropene application and modified atmosphere packaging affect ethylene biosynthesis, fruit softening, and quality of 'Tegan Blue' japanese plum during cold storage. *Journal of American Society for Horticultural Sciences* 133: 290-299.
- Khan, A.S., Z. Singh, N.A. Abbasi and E.E. Swinny. 2008. Pre- or postharvest applications of putrescine and low temperature storage affect fruit ripening and quality of 'Angelino' plum. *J. Sci. Food Agri.* 88: 1686-1695.
- Qasim, M., I. Ahmad and T. Ahmad. 2008. Optimizing fertigation frequency for *Rosa hybrida*. *Pakistan Journal of Botany* 40(2): 533-545.
- Sadiq, S., H.Q. Bhatti, M.A. Hanif, M.A. Ali and M. Ansari. 2008. Studies on chemical composition and nutritive evaluation of wild edible mushrooms. *Iran Journal of Chemistry and Engineering*. Vol.27.
- Saleem, B.A., A.U. Malik, M.A. Pervez, A.S. Khan and M.N. Khan. 2008. Spring application of growth regulators affects fruit quality of 'blood red' sweet orange. *Pakistan Journal of Botany* 40: 1013-1023.
- Usman, M., B. Fatima, K.A. Gillani, M.S. Khan and M.M. Khan. 2008. Exploitation of potential target tissues to develop polyploids in citrus. *Pakistan Journal of Botany* 40(4): 1755-1766.

Proceedings

2007

- Ahmad, I., M. Qasim, T. Ahmad and F. Imam. 2007. Rose flower production and quality as influenced by NPK and micronutrients application. *International symposium on prospects of Horticultural Industry in Pakistan*. March, 28-30, 2007.
- Ahmad, I., M.S. Zafar and M.A. Hanif. 2007. Vase life of *Chrysanthemum* flowers as influenced by various packing materials and storage temperatures. *International symposium on prospects of Horticultural Industry in Pakistan*. March, 28-30, 2007.

- Ahmad, T., M. Qasim and I. Ahmad. 2007. Major problems confronting commercial production of gladiolus in Punjab, Pakistan. International symposium on prospects of Horticultural Industry in Pakistan. March, 28-30, 2007.
- Anwar, R., M. Saleem, B.A. Saleem, S. Ahmad and Z. Hussain. 2007. Mango malformation in relation to leaf nitrogen contents. Int. Conf. on Mango & Date Palm: Culture & Export, June 20-23, 2005. Univ. of Agric. Faisalabad, Pak. pp:86-90.
- Anwar, R., S.A Syed, Z. Hussain and S. Ahmad. 2007. Present scenario and future prospects of date industry. Int. Conf. on Mango & Date Palm: Culture & Export, June 20-23, 2005. Univ. of Agric. Faisalabad, Pak. pp:307-317.
- Iqbal, M.A., W. Ahmed, M.A. Nawaz and M.M. Khan. 2007. Performance of Kinnow mandarin (*Citrus reticulata* Blanco.) on the traditional and exotic rootstocks. International symposium on prospects of horticultural industry in Pakistan. 28th to 30th March, 2007, Institute of Horticultural Sciences, U.A.F, Pakistan. pp.93-97.
- Jaskani, M.J., S.W. Kwon, Z. Hussain and I.A. Khan. 2007. Breeding polyploidy watermelon: induction, identification and seed germination of tetraploids. International symposium on prospects of horticultural industry in Pakistan. 28th to 30th March, 2007, Institute of Horticultural Sciences, U.A.F, Pakistan. pp. 274-282.
- Malik, A.U. and R. Anwar. 2007. Effective Packaging to maintain fresh horticultural produce quality. Int. Conf. on Value Addition in Hort. Products, June 26-28, 2006. Univ. of Arid Agric., Rawalpindi, Pak. pp:195-204.
- Nawaz, M.A., M.M. Khan, M.J. Jaskani, and Y. Ifkhar. 2007. Present status of citrus gene pool in Pakistan. International symposium on prospects of horticultural industry in Pakistan. 28th to 30th March, 2007, Institute of Horticultural Sciences, U.A.F, Pakistan. pp.70-74.
- Nawaz, M.A., W. Ahmed, Z. Iqbal and M.M. Khan. 2007. Evaluation of high density plantation on vigor and yield in Kinnow mandarin (*Citrus reticulata* Blanco) International symposium on prospects of horticultural industry in Pakistan. 28th to 30th March, 2007, Institute of Horticultural Sciences, U.A.F, Pakistan. pp.87-92.
- Pervez, M.A., R. Anwar and S. Ahmad. 2007. Research advancement and future thrust in citriculture. Proc. of Nat. Conf. on Citrus Fruits held on 1st to 3rd February, 2007. at Horticultural Foundation of Pakistan, Islamabad. Pp: 3-12.
- Riaz, A. and A. Younis. 2007. Production potential of flowering bulbs in Pakistan International Floriculture Conference. NARC, Islamabad. 10th to 12th April, 2007.
- Saeed, T., M.M. Khan, M. Aslam, M. Usman and K. Ziaf. 2007. Effect of benzyl adenine on callus formation in apple. International symposium on prospects of horticultural industry in Pakistan. 28th to 30th March, 2007, Institute of Horticultural Sciences, U.A.F, Pakistan. pp. 139-142.
- Tahir, F.M., M. Azam, R. Anwar and M.A. Pervez. 2007. Effect of removal of malformed panicles on vegetative and reproductive growth of Mango (*Mangifera indica* L.). Proc. Int. Symp. on prospects of Hort. Industry in Pakistan. Inst. of Hort. Sciences, UAF. PP.208-215
- Tahir, F.M., M. Azam, R. Anwar, M.A. Pervez and S. Rehman. 2007. Effect of gibberlic acid and potassium nitrate spray on panicle physiology of Mango (*Mangifera indica* L.) Proc. Int. Symp. on prospects of Hort. Industry in Pakistan. Inst. of Hort. Sciences, UAF. PP.126-130
- Ullah, H., S. Ahmad, R. Anwar, W. Ahmad and A.K. Thompson. 2007. Effect of sealing banana terminals with petroleum jelly on the ripening and quality of water stored bananas. Int. Conf. on Value Addition in Hort. Products, June 26-28, 2006. Univ. of Arid Agric., Rawalpindi, Pak. pp:229-236.
- Younis, A. and A. Riaz. 2007. Value addition in Floriculture. International Floriculture Conference. NARC, Islamabad. 10th to 12th April, 2007.
- Younis, A., A. Riaz, R. Ahmed and A. Raza. 2007. Effect of hot water, sulphuric acid and nitric acid on the germination of rose seeds. Proceedings, Acta Horticulturae 755: 105-108.
- Younis, A., M.A. Khan, A. Riaz, A.A. Khan and M.A. Pervez. 2007. Extraction and gas chromatography analysis of essential oil from *Rosa centifolia*. International Symposium on Prospects of Horticultural Industry in Pakistan. 28th March to 30th March, 2007.

2008

- Abbas, M.M., R. Anwar and M.A. Pervez. 2008. Water gardening: an important feature of landscape. Proceedings of the International Symposium on Prospects of Horticultural Industry in Pakistan from 28th to 30th March 2007. pp.332-335.

- Ahmad, I., M.S. Zafar, M.A. Hanif, M.A. Khan and M.A. Pervez. 2008. Postharvest life of *Chrysanthemum morifolium* as influenced by various packing materials and storage temperatures. Proceedings of the International Symposium on Prospects of Horticultural Industry in Pakistan from 28th to 30th March 2007. pp.349-354.
- Ahmad, S., A.K. Thompson, H. Hokmabadi and R. Anwar. 2008. Role of ethylene and temperature on ripening and quality of banana fruits in relation to age and position of hands. Int. Symp. on Prospects of Hort. Industry in Pak., 28-30 March, 2007. Univ. of Agric. Faisalabad, Pak. pp:247-250.
- Ahmad, S., M.A. Javid, M.M. Naeem, R. Anwar and M.A. Pervez. 2008. Effect of time of nitrogen application on fruit set and yield of grapefruit. Proceedings of the International Symposium on Prospects of Horticultural Industry in Pakistan from 28th to 30th March 2007. Pp.115-119.
- Anwar, R. and A.U. Malik. 2008. Effect of hot water treatment on storage life and quality of mango (*Mangifera indica* L.) cv. Sindhri. Acta Hort. 768:201-207.
- Ayyub, C.M., K. Ziaf, M.A. Pervez, M. Amjad, S. Rasheed and N. Akhtar. 2008. Effect of seed maturity and storability on viability and vigour in pea (*Pisum sativum* L.) seeds. Proceedings of the International Symposium on Prospects of Horticultural Industry in Pakistan from 28th to 30th March 2007. pp.269-273.
- Azam, M., F.M. Tahir, R. Anwar, M.A. Pervez and Shoaib-ur-Rehman. 2008. Effect of gibberellic acid and potassium nitrate spray on panicle physiology of mango (*Mangifera indica* L.) Proceedings of the International Symposium on Prospects of Horticultural Industry in Pakistan from 28th to 30th March 2007. Pp.126-130.
- Azhar, N., M.Y. Ashraf, M.U. Shirazi, M.A. Khan, M.A. Pervez and S. Ahmad. 2008. Studies on soil and plant micronutrients relationship of mango orchards in hyderabad district of Pakistan. Proceedings of the International Symposium on Prospects of Horticultural Industry in Pakistan from 28th to 30th March 2007. pp.120-125.
- Khan, A.S. and Z. Singh. 2008. Influence of pre and postharvest applications of putrescine on ethylene production, storage life and quality of 'Angelino' plum. Acta Hort. 768: 125-133.
- Nafees M., M.A. Pervez, M. Ayyub and M.S. Yaqub. 2008. Effect of simple and compound fertilizer application on flushing and malformation of inflorescence in mango. Proceedings of the International Symposium on Prospects of Horticultural Industry in Pakistan from 28th to 30th March 2007. pp.220-225.
- Nafees M., R. Anwar, R.M. Iqbal and M.A. Pervez. 2008. Effect of split fertilizer application on vegetative growth and malformation of inflorescence in mango. Proceedings of the International Symposium on Prospects of Horticultural Industry in Pakistan from 28th to 30th March 2007. Pp.201-207.
- Nafees, M., M.A. Pervez, C.M. Ayyub and R. Anwar. 2008. Pruning practices to enhance vegetative growth and reducing malformation of inflorescence in mango. Int. Symp. on Prospects of Hort. Industry in Pak., 28-30 March, 2007. Univ. of Agric. Faisalabad, Pak. pp:216-219.
- Pervez, M.A., C.M. Ayyub, W. Ahmed, K. Ahmad, M.Z. Iqbal, I. Ashraf and N. Akhtar. 2008. Effect of drought stress on quality and vigour of pea cv. Kelvedon wonder. Int. symposium on prospects of horticultural industry in Pakistan; future challenges & production prospects, from 28th to 30th March, 2007 pp.262-268.
- Ziaf K., M. Amjad, M. A. Pervez, M. A. Anjum, Q. Iqbal, S. Rasheed and T. Saeed. 2008. Seed priming for improved seedling vigour in chillies. Proceedings of the International Symposium on Prospects of Horticultural Industry in Pakistan from 28th to 30th March 2007. pp.251-256.

INSTITUTE OF SOIL AND ENVIRONMENTAL SCIENCES

Research Publication

Yaseen, M. 2007. Use resources efficiently. Polit. Econ., Pol. II, The News. 16th September.

Journals

2007

Ahmad, F., Rahmatullah1, T. Aziz, M.A. Maqsood, M. A. Tahir and S. Kanwal. 2007. Effect of silicon application on wheat (*Triticum aestivum* L.) growth under water deficiency stress. Emir. J. Food Agric. 19: 01-07.

- Ahmad, R., G. Jilani, M. Arshad, Z.A. Zahir, A. Khalid. 2007. Bio-conversion of organic wastes for their recycling in agriculture: An overview of perspectives and prospects. *Ann. Microbiol.* 57(4):471-479
- Ahmad, R., M. Arshad, M. Naveed, Z.A. Zahir, T. Sultan and M. Khalid. 2007. Carbon mineralization rate of composted and raw organic wastes and its implications on environment. *Soil Environ.* 26: 92-96.
- Ashraf, M., Rahmatullah, S. Kanwal, M. A. Tahir, A. Sarwar and L. Ali. 2007. Differential salt tolerance of sugarcane genotypes. *Pak. J. Agri. Sci.* 44: 85-89.
- Aziz, M.A., A. Ghafoor, Saifullah, H.R. Ahmad and M. Sabir. 2007. Effect of glucose and acetic acid on Ni, Pb and Zn transformation in contaminated soils. *Pak. J. Agri. Sci.* 44:228-235.
- Bilal, A., A.M. Ranjha, Rahmatullah and M. Rashid. 2007. Determining model based phosphorus fertilizer requirement for canola crop. *Pak. J. Agric. Sci.*, 44(1):110-116.
- Gill, M. A., Rahmatullah, M. Irfan and M.A. Maqsood. 2007. Silicon requirement of coarse and fine varieties of rice. *J. Plant. Nutrition.* 30: 1-8.
- Hannan, A., A.M. Ranjha, Rahmatullah, M. Waqas and A. Niaz. 2007. Potassium adsorption characteristics of four different textured alkaline calcareous soils. *Pak. J. Agric. Sci.*, 44(2):242-247.
- Hussain, S, M. Arshad, M. Saleem and Z. A. Zahir. 2007. Screening of soil fungi for in vitro degradation of endosulfan. *World J. Microbiol. Biotech.* 23: 939-945.
- Ibrahim, M., J. Akhtar, M. Younis, M. A. Riaz, M. Anwar-ul-Haq and M. Tahir. 2007. Selection of cotton (*Gossypium hirsutum* L) genotypes against NaCl Stress. *Soil Environ.* 26: 59-63.
- Iqbal, M., J. Akhtar, M.A. Haq, M. Nasim, A. Saeed and M. Naveed. 2007. Variation in growth and ion uptake in rice cultivars under NaCl stress in hydroponics. *Pak. J. Agri. Sci.* 44:393-400.
- Iqbal, M., A. Hassan and R. Lal. 2007. Nutrient content of maize and soil organic matter status under various tillage methods and farmyard manure levels. *Acta Agric. Scand.* 57:349-356.
- Kanwal, S., Rahmatullah, M. Hashmat, M. Aamer Maqsood and M. A. Tahir. 2007. Silicon requirement of indigenous and improved varieties of wheat. *Soil Environ.* 26: 178-181.
- Kashif, S.R., M. Yaseen, M. Arshad and M. Abbas. 2007. Evaluation of calcium carbide as a soil amendment to improve nitrogen economy of soil and yield of Okra. *Soil Environ.* 26 (1):69-74.
- Khan, A.U.H., M. Iqbal and K.R. Islam. 2007. Dairy manure and tillage effects on soil fertility and corn yields. *Biores. Tech.* 98:1972-1979.
- Mahmood, R., M. Yaseen and M. Arshad. 2007. Effect of rate and time of calcium carbide application on nitrogen use efficiency of applied urea and growth of wheat. *Pak. J. Bot.* 39(2):497-502.
- Mehdi, S.M., O. Rehman, A.M. Ranjha and M. Sarfraz. 2007. Adsorption capacities and availability of phosphorus in soil solution for rice wheat cropping system. *World Appl. Sci. J.*, 2(4):244-265.
- Nadeem, S. M., Z. A. Zahir, M. Naveed and M. Arshad. 2007. Preliminary investigations on inducing salt tolerance in maize through inoculation with rhizobacteria containing ACC-deaminase activity. *Canad. J. Microbiol.* 53:1141-1149.
- Nasim, M., R.H. Qureshi, M. Saqib, T. Aziz, S. Nawaz, J. Akhtar and M.A. Haq. 2007. Plantation of eucalyptus *camaldulensis* on salt affected soil under field conditions; growth and soil properties. *Pak. J. Agri. Sci.* 44(3):385-392
- Niaz, A., A.M. Ranjha, Rahmatullah, A. Hannan and M. Waqas. 2007. Boron status of soils as affected by different soil characteristics-pH, CaCO₃, organic matter and clay contents. *Pak. J. Agric. Sci.*, 44(3):428-433.
- Pervaiz, S., M. Saqib, J. Akhtar, M. A. Riaz, M.A. Haq and M. Nasim. 2007. Comparative growth and leaf ionic composition of four cotton (*Gossypium hirsutum* L.) genotypes in response to salinity. *Pak. J. Agri., Sci.*, 44(1): 79-84.
- Qadir, M., J.D. Oster, S. Schubert, A.D. Noble, and K.L. Sahrawat. 2007. Phytoremediation of sodic and saline-sodic soils. *Adv. Agron.* 96: 197-247.
- Rahim, A., G.H. Abbasi, M. Rashid and A.M. Ranjha. 2007. Methods of phosphorus application and irrigation schedule influencing wheat yield. *Pak. J. Agric. Sci.*, 44:420-422.
- Rashid, M., A. M. Ranjha, M. Waqas A. Hannan and A. Bilal. 2007. Effect of residual phosphorus on the yield and quality of sorghum fodder in three different textured calcareous soils. *Pak. J. Agric. Sci.*, 44(1):117-122.
- Rashid, M., A. M. Ranjha, M. Waqas, A. Hannan, A. Bilal, A. Saeed and M. Zafar. 2007. Effect of P fertilization on yield and quality of oat (*Avena sativa* L.) fodder on two different textured calcareous soils. *Soil Environ.*, 26(1):33-41.
- Rashid, M., A.M. Ranjha, and A. Rahim. 2007. Model based P fertilization to improve yield and quality of sorghum (*Sorghum bicolor* L.) fodder on an Ustochrept soil. *Pak. J. Agric. Sci.*, 44(2):221-227.

- Rehman, O., A.M. Ranjha, S.M. Mehdi, B. Ahmad, S. Afzal and A. Hannan. 2007. Residual effect and level of phosphorus decline under cereal based cropping system. *Pak. J. Agric. Sci.*, 44(4)1-4.
- Rehman, O., S.M. Mehdi, A. M. Ranjha and S. Sarfraz. 2007. Phosphorus requirements of cereal crops and fertility build up factor in a Typic Camborthid soil. *J. Biol. Sci.*, 7(7):1072-1081.
- Saif Ur Rehman Kashif, M. Yaseen, M. Arshad and M. Abbas. 2007. Evaluation of Response of calcium carbide as a soil amendment to improve nitrogen economy of soil and yield of okra. *Soil Environ.* 26(1): 69-74.
- Saleem, M., M. Arshad, S. Hussain and A.S. Bhatti. 2007. Perspectives of plant growth promoting rhizobacteria (PGPR) containing ACC-deaminase in stress agriculture. *J. Indust. Microbiol. Biotech.* 34:635-648.
- Shaharoon, B., G.M. Jamro, Z. A. Zahir, M. Arshad and K.S. Memon. 2007. Effectiveness of various *Pseudomonas* spp. and *Burkholderia caryophylli* containing ACC-deaminase for improving growth and yield of wheat (*Triticum aestivum* L.) *J. Microbiol. Biotech.* 17: 1300-1307.
- Thomas, R.J., E. De Pauw, M. Qadir, A. Amri, M. Pala, A. Yahyaoui, M. El-Bohssini, M. Baum, L. Iñiguez, and K. Shideed. 2007. Increasing the Resilience of Dryland Agro-ecosystems to Climate Change. *Journal of Semi-Arid Tropical Agricultural Research* 4(1): 1-37.
- Waqas, M., A.M. Ranjha, Rahmatullah, A. Hannan and M. Rashid. 2007. Model based phosphorus fertilizer requirement of berseem (*Trifolium alexandrinum* L.) in Lyallpur soil series. *Pak. J. Agric. Sci.*, 44(1):96-102.
- Waraich, E.A, M. Rasheed, A. Ali, Saifullah. 2007. Irrigation and nitrogen effects on grain development and yield in wheat (*Triticum aestivum* L.). *Pak. J. Bot.* 39:1663-1672.
- Waraich, E.A., R. Ahmed., Saifullah and M. Sabir. 2007. Nitrogen nutrition and water stress effects on growth and water use efficiency of wheat (*Triticum aestivum* L.). *Pak. J. Agric. Res.* 44:64-73.
- Warraich, E.A., R. Ahmed, M. Ashraf and Saifullah. 2007. Irrigation and nitrogen effects on grain yield, yield components and water use efficiency of wheat. *Pak. J. Sci. Res.* 59:91-97.
- Yaseen, M., A. M. Ranjha, M. Yaseen, M. Rashid and A. Hannan. 2007. Application of Freundlich adsorption isotherm to determine phosphate requirement of cotton crop on three different textured soils. *Pak. J. Agri. Sci.* 44(4): 557-562.
- Yasin, M., A.M. Ranjha, M. Yaseen, M. Rashid and A. Hannan. 2007. Application of Freundlich sorption isotherm to determine phosphorus requirement of cotton crop on three different textured soils. *Pak. J. Agric. Sci.*, 44(4)5-10.
- Zafar-ul-Hye, M., Z.A. Zahir, S.M. Shahzad, M. Naveed, M. Arshad and M. Khalid. 2007. Preliminary screening of rhizobacteria containing ACC-deaminase for promoting growth of lentil seedlings under axenic conditions. *Pak. J. Bot.* 39: 1725-1738.
- Zafar-ul-Hye, M., Z.A. Zahir, S.M. Shehzad, U. Irshad and M. Arshad. 2007. Isolation and screening of rhizobia for improving growth and nodulation of lentil (*Lens culinaris* Medic) seedlings under axenic conditions. *Soil Environ.* 26: 81-91.
- Zahir, Z.A., A. Afzal, M. Ajmal, M. Naveed, H.N. Asghar and M. Arshad. 2007. Nitrogen enrichment of composted organic wastes for improving growth, yield and nitrogen uptake of wheat. *Soil Environ.* 26: 15-21.
- Zahir, Z.A., M. Iqbal, M. Arshad, M. Naveed and M. Khalid. 2007. Effectiveness of IAA, GA3 and kinetin blended with recycled organic waste for improving growth and yield of wheat (*Triticum aestivum* L.). *Pak. J. Bot.* 39: 761-768.
- Zahir, Z.A., M. Iqbal, M. Arshad, M. Naveed and M. Khalid. 2007. Effectiveness of IAA, GA3, and kinetin blended with recycled organic waste for improving growth and yield of wheat (*Triticum aestivum* L.). *Pak. J. Bot.* 39(3):761-768.
- Zahir, Z.A., M. Naveed, M. Zobair, A. Khalid and M. Arshad. 2007. Enrichment of composted organic wastes for improving rice production. *J. Chem. Soc. Pak.* 29: 514-519.
- Zahir, Z.A., M. Naveed, M.I. Zafar, H. S. Rehman, M. Arshad and M. Khalid. 2007. Evaluation of composted organic waste enriched with nitrogen and L-tryptophan for improving growth and yield of wheat. *Pak. J. Bot.* 39: 1739-1749.
- Zhang, Y., Z.A. Zahir, C. Amrhein, A. Chang and W.T. Frankenberger, Jr. 2007. Application of redox mediator to accelerate selenate reduction to elemental selenium by *Enterobacter taylorae*. *J. Agric. Food Chem.* 55: 5714-5717.

2008

- Afzal, I., S. Rauf, S.M.A. Basra and G. Murtaza. 2008. Halopriming improves vigor, metabolism of reserves and ionic contents in wheat seedlings under salt stress. *Plant Soil Environ.* 54(9): 382–388.
- Ahmad, R., A. Khalid, M. Arshad, Z. A. Zahir and T. Mahmood. 2008. Effect of composted organic wastes enriched with N and L-tryptophan on soil and maize. *Agron. Sustain. Develop.* 28:299-305
- Ahmad, R., M. Arshad, A. Khalid and Z.A. Zahir. 2008. Effectiveness of organic-/bio-fertilizer supplemented with chemical fertilizers for improving soil water retention, aggregate stability, growth and nutrients uptake of maize (*Zea mays* L.). *J. Sustainable Agric.* 31(4): 57-77
- Ahmad, R., M. Arshad, Z.A. Zahir, M. Naveed, M. Khalid and H.N. Asghar. 2008. Integrating N-enriched compost with biologically active substances for improving growth and yield of cereals. *Pak. J. Bot.* 40(1): 283-293.
- Ahmad, R., M. Khalid, M. Naveed, S.M. Shahzad, Z.A. Zahir and S.N. Kokhar. 2008. Comparative efficiency of auxin and its precursor applied through compost for improving growth and yield of maize. *Pak. J. Bot.* 40(4): 1703-1710.
- Ahmad, R., M. Naveed, M. Aslam, Z.A. Zahir, M. Arshad and G. Jilani. 2008. Economizing the use of nitrogen fertilizer in wheat production through enriched compost. *Renew. Agri. Food Syst.* 23(3): 243-249.
- Arshad, M., B. Shaharoona and T. Mahmood. 2008. Inoculation with plant growth promoting rhizobacteria containing ACC-deaminase partially eliminates the effects of water stress on growth, yield and ripening of *Pisum sativum* L. *Pedosphere* 18(3): (In press).
- Arshad, M., S. Hussain and M. Saleem. 2008. Optimization of environmental parameters for biodegradation of alpha and beta endosulfan in soil slurry by *Pseudomonas aeruginosa*. *J. Appl. Microbiol.* 104: 364-370.
- Aziz, A., A. Tanveer, A. Ali, M. Yasin, B.H. Baber and M.A. Nadeem. 2008. Allelopathic effects of cleavers (*Galium aparine*) on seed germination and early growth of wheat (*Triticum aestivum*). *Allelop. J.* 22 (1): 25-34.
- Ghafoor, A., G. Murtaza, B. Ahmad and Th. M. Boers. 2008. Evaluation of amelioration treatments and economic aspects of using saline-sodic water for rice and wheat production on salt-affected soils under arid land conditions. *Irrig. Drainage*, 57: 1-11.
- Ghafoor, A., M. Z. Rehman, A. Ghafoor, G. Murtaza and M. Sabir. 2008. Fractionation and availability of cadmium to wheat as affected by inorganic amendments. *Int. J. Agri. Biol.* 5:
- Hussain, S., T. Siddique, M. Arshad., M. Saleem. 2008. Bioremediation and phytoremediation of pesticides: Recent advances. *Crit. Rev. Environ. Sci. Tech.* (In press).
- Iqbal M., A. Hassan and M. Ibrahim. 2008. Effects of tillage systems and mulch on soil physical quality parameters and maize (*Zea mays* L.) yield in semi-arid. *Pak. Biological Agri. Hort. J.* 25:311-325.
- Kanwal, S., Rahmatullah, T. Aziz, M.A. Maqsood and N. Abbas. 2008. Critical ratio of calcium and boron in maize shoot for optimum growth. *J. Plant Nutrition.* 31: 1-8.
- Khalid, A., M. Arshad and D. E. Crowley. 2008. Decolorization of azo dyes by *Shewanella* sp. under saline conditions. *Appl. Microbiol. Biotech.* 79:1053-1059.
- Khalid, A., M. Arshad and D.E. Crowley. 2008. Accelerated decolorization of structurally different azo dyes by newly isolated bacterial strains. *Appl. Microbiol. Biotech.* 78:361-369.
- Mahmood, H. M., A. Khalid, M. Khalid and M. Arshad. 2008. Response of etiolated pea seedlings and cotton to ethylene produced from L-methionine by soil microorganisms. *Pak. J. Bot.* 40(2) :859-866
- Murtaza, G., A. Ghafoor and M. Qadir. 2008. Accumulation and implications of cadmium, cobalt and manganese in soils and vegetables irrigated with city effluent. *J. Sci. Food Agri.* 88: 100-107.
- Naveed, M., Z.A. Zahir, M. Khalid, H.N. Asghar, M. J. Akhter and M. Arshad. 2008. Potential of plant growth promoting rhizobacteria containing ACC-deaminase activity for improving growth and yield of wheat under fertilized conditions. *Pak. J. Bot.* 40(3): 1231-1243.
- Nazli, Z.H., A. Khalid, M. Khalid, M. Arshad. 2008. 1-Aminocyclopropane-1-carboxylate-dependent biosynthesis of ethylene in soils of different texture. *Pedobiologia* 51: 351-358.
- Qadir, M., A.S. Qureshi, and S.A.M. Cheraghi. 2008. Extent and characterization of salt-affected soils in Iran and strategies for their amelioration and management. *Land Degrad. Develop.* 19: 214-227.
- Qadir, M., A.Tubeike, J.Akhtar, A.Larbi, P.S. Minhas and M.A. Khan. 2008. Productivity enhancement of salt affected environment, through crop diversification. *Land Degrad. Develop.* 19:429-453.
- Qureshi, A.S., P.G. McCornick, M. Qadir, and Z. Aslam. 2008. Managing salinity and waterlogging in the Indus Basin of Pakistan. *Agric. Water Manag.* 95: 1-10.

- Rehman, M.Z., A. Ghafoor, M. Sabir, Saifullah, A. Naeem and H.R. Ahmad. 2008. Extractants for the assessment of phyto-available cadmium to rice grown in cadmium contaminated soils. *Pak. J. Agri. Sci.* 45:1-7.
- Saif Ur Rehman Kashif, M. Yaseen, M. Arshad and M. Ayub. 2008. Response of okra (*Hibiscus esculentus* L.) to soil given encapsulated calcium carbide. *Pak. J. Bot.* 40(1) 175-181.
- Saifullah, A. Ghfoor, M. Sabir, M. Z. Rehman and M. Yaseen. 2008. Removal of lead from contaminated soils by organic acids. *Int. J. Agri. Biol.* 10:173-178.
- Saleem, M, H. Brim, S. Hussain, M. Arshad, M.B. Leigh, Ziaul-hassan. 2008. Perspectives on microbial cell surface display in bioremediation. *Biotech. Advan.* 26 (2): 151-161.
- Saqib, M., C. Zörb and S. Schubert. 2008. Silicon-mediated improvement in the salt resistance of wheat (*Triticum aestivum*) results from increased sodium exclusion and resistance to oxidative stress. *Funct. Plant Biol.* 35: 633-639.
- Saqib, M., J. Akhtar and R. H. Qureshi. 2008. Sodidity intensifies the effect of salinity on grain yield and yield components of wheat (*Triticum aestivum* L.) by increasing the concentration of leaf Na⁺ but not of leaf Cl⁻. *J. Plant Nut.* Accepted.
- Shafiq, M., A. M. Ranjha, M. Yaseen, S. M. Mehdi and A. Hannan. 2008. Comparison of freundlich and langmuir adsorption equations for boron adsorption on calcareous soils. *J. Agric. Res.* 48 (2): 141 – 148.
- Shaharoon, B., M. Naveed, M. Arshad and Z.A. Zahir. 2008. Fertilizer-dependent efficiency of *Pseudomonas* for improving growth, yield and nutrient use efficiency of wheat (*Triticum aestivum* L.). *Appl. Microbiol. Biotech.* 79: 147-155.
- Tanveer, A., M. Tahir, M.A. Nadeem, M. Younis, A. Aziz and M. Yaseen. 2008. Allelopathic effects of *Xanthium strumarium* L. on seed germination and seedling growth of crops. *Allelop. J.* 21 (2): 317-328.
- Vyshpolsky, F., M. Qadir, A. Karimov, K. Mukhamedjanov, U. Bekbaev, R. Paroda, A. Aw-Hassan and F. Karajeh. 2008. Enhancing the productivity of high-magnesium soil and water resources through the application of phosphogypsum in Central Asia. *Land Degrad. Develop.* 19: 45-56.
- Yaseen, M. and S.S. Malhi. 2008. Differential growth performance of 15 wheat genotypes for grain yield and P uptake on a low P soil without and with applied P fertilizer. *J. Plant Nutrition* (accepted).
- Yaseen, M. and S.S. Malhi. 2008. Differential response of wheat genotypes to ammonium phosphate and rock phosphorus sources. *J. Plant Nut.* (accepted).
- Yaseen, M., S. Siddiq and M. Sohail. 2008. Response of wheat genotypes to deficient and adequate levels of phosphorus. *Pak. J. Bot.* 40(1):351-359.
- Zahir, Z. A., A. Munir, H.N. Asghar, M. Arshad and B. Shaharoon. 2008. Effectiveness of rhizobacteria containing ACC-deaminase for growth promotion of peas (*Pisum sativum*) under drought conditions. *J. Microbiol. Biotech.* 18(5): 958-963.

FACULTY OF ANIMAL HUSBANDRY

Department of Livestock Management

2007

- Bhatti, J.A., M. Younas, M.E. Babar, M. Riaz, H. Nawaz, K. Javed, M.A. Jabbar, and M. Abdullah. 2007. Effect of saltbush (*Atriplex amnicola*) substitution on growth performance of Nili-Ravi buffalo heifers. Accepted for publication as Manuscript # 70709 in *Asian-Australasian J. Anim. Sci.* Korea.
- Iqbal, A. 2007. Achievements of research in the field of camelids: A Review Book of the year 2006. World Association of Animal Foundation (WAAP) Wageningen Academic Publishers, Netherland.
- Iqbal, A., M. A. Mirza and S.H. Raza. 2007. Role of buffalo in contributing milk and meat in Pakistan. *Italian J. Anim. Sci.* Vol. 6 (Suppl 2): 1387-1389.

2008

- Akhtar, P., S. Ali, A. Hussain, M.A. Mirza, M.I. Mustafa, J.I. Sultan. 2008. Heritability estimates of Post-Weaning performance Traits in Hissardale Sheep in Pakistan. *Turk J. Vet. Anim. Sci.* 32(4): 275-279.

- Lateef, M., K.Z. Gondal, M. Younas, M. Sarwar, M.I. Mustafa and M.K. Bashir. 2008. Milk Production Potential of Purebred Holstein Friesian and Jersey Cows in Subtropical Environment of Pakistan. *Pakistan Vet. J.* 28 (1): 9-12.
- Mustafa M.I., J.P. Chadwick, P. Akhtar, S. Ali, M. Lateef and J.I. Sultan. 2008. The effect of concentrate and silage-based finishing diets on the growth performance and carcass characteristics of Suffolk cross and Scottish Blackface lambs. *Turk J. Vet. Anim. Sci.* 32(3):191-197.
- Nawaz, H., Shafiq M., M. Yaqoob, M. Yousaf and F. Ahmad. 2008. Effect of Cholecalciferol on live performance of carcass characteristics of broiler chicks. *Indian Veterinary Journal* 85(1): 851-854.
- Sirzamin K., M.S. Qureshi, N. Ahmad, M. Amjed, F.R. Durrani, and M. Younas. 2008. Effect of pregnancy on lactation milk values in dairy Buffaloes. *Asian-Aust. J. Anim. Sci.* 21(4):523-531.
- Sirzamin K., N. Ahmad, M.S. Qureshi, M. Amjed, M. Younas and F.R. Durrani. 2008. Effect of gestation stage on milk production in dairy Buffalo. *Sarhad J. Agric.* 24(2):317-322.
- Sultan J. I., A. Javed, M. Yaqoob, and P. Akhtar. 2008. Effect of varying ruminally degradable to undergradable protein ratio on feed intake, nutrient digestion and N balance of buffalo calves., *J. Anim. Sci.* Vol. 86, E-Suppl. 2 / *J. Dairy Sci.* Vol. 91, E-Suppl. 1. Page 585
- Sultan, J.I., I. Rahim, M. Yaqoob, I. Javed, H. Nawaz and H. Mansoor. 2008. Nutritive value of free rangeland grasses of northern grasslands of Pakistan. *Pak. J. Bot.*, 40(1): 249-258.
- Yaqoob, M., J. I. Sultan, A. Javed, and P. Akhtar. 2008. Associative effects of leguminous (C3; Lucern) and nonleguminous (C4; Corn & sorghum) fodders on In-situ digestion kinetics of fiber., *Anim. Sci.* Vol. 86, E-Suppl. 2 / *J. Dairy Sci.* Vol. 91, E-Suppl. 1. Page 138.

Department of Animal Breeding and Genetics

International Publications

- A. Bhatti, M. S. Khan, Z. Rehman, A. U. Hyder and F. Hassan. 2007. Selection of Sahiwal cattle bulls on pedigree and progeny. *Asian-Aust. J. Anim. Sci.* 20(1):12-18.
- Akhtar P., M. Abdullah, M. Younas and M. Aslam. 2007. Heritability estimates of some growth traits of Hissardale sheep in Pakistan. *Ind J. Anim Sci.* 77 (2): 65-67.
- Akhtar, P., S. Ali, A. Hussain, M. A. Mirza, M. I. Mustafa and J. I. Sultan. 2007. Heritability Estimates of Post weaning Performance Traits of Hissardale Sheep in Pakistan. *Turkish J. of Veterinary and Animal Science:* 32 (1):1-5.
- Akhter, P., U. Kalsoom, S. Ali, M. Yaqoob, M. I. Mustafa and J. I. Sultan. 2007. Genetic Parameter estimation for growth traits in Nili-Ravi Buffalo Calves in Pakistan. *Turkish J. of Veterinary and Animal Science.* (Submitted)
- Ali, S., I. Wilmut, K. Campbell, E. Telfer and P. Akhtar. 2007. Effect of 6-Dimethylaminopurine (6-DMAP) to synchronize Blastomere division in Murine embryos at cleavage stage. *Turkish J. of Veterinary and Animal Science.* (Submitted)
- F. Hassan, M. S. Khan, M. S. Rehman, M. Sarwar and S. A. Bhatti. 2007. Seasonality of calving in Nili-Ravi buffaloes, purebred Sahiwal and crossbred cattle in Pakistan. *Italian J. Anim. Sci.* 6:1298-1301.
- Hassan, F., M. S. Khan, M. S. Rehman, M. Sarwar, and S. A. Bhatti. 2007. Seasonality of calving in Nili-Ravi buffaloes, Sahiwal purebred and crossbred cattle in Pakistan. *Italian Journal of Animal Science.* Vol.6:(2) 1298-1301. Proceedings of the 8th world buffalo congress, Caserta, Italy (October 19-22, 2007).
- M. K. Bashir, M. S. Khan, S. A. Bhatti and A. Iqbal. 2007. Lifetime performance of Nili-Ravi buffaloes in Pakistan. *Asian-Aust. J. Anim. Sci.* 20 (5):661-668.
- M. S. Khan, A. Ali, A.U. Hyder and A.I. Chatta. 2007. Effect of inbreeding on performance traits of Beetal goats in Pakistan. *Archives of Animal Breeding* 50(2):197-203.
- M. S. Khan, F. Hassan, M. S. Rehman, A. U. Hyder and I. R. Bajwa. 2007. Genetic control of milk yield from lactations of different duration in Nili-Ravi buffaloes. *Archives of Animal Breeding.* 50 (3): 227-239.
- M.S. Khan, F. Hassan, M.S. Rehman, A.U. Hyder and I.R. Bajwa. 2007. Genetic control of milk yield from lactations of different duration in Nili-Ravi buffaloes. *Archives of Animal Breeding* 50(3):227-239.
- U. Hyder, M. S. Khan, M. Aslam, M. S. Rehman and I. R. Bajwa. 2007. Milk yield and season of calving in buffaloes and cattle in Pakistan. *Italian J. Anim. Sci.* 6:1347-1350.

2008

- H. J. Lee, M. A. Khan, W. S. Lee, H. S. Kim, K. S. Ki, S. J. Kang, T. Y. Hur, M. S. Khan and Y. J. Choi. 2008. Growth, blood metabolites, and health of Holstein calves fed milk replacer containing different amounts of energy and protein. *Asian-Aust. J. Anim. Sci.* 21 (2):198-203.
- M. Ajmal Khan, M. Sarwar, M. S. Khan, M. S. Rehman, M. Nisa, W. S. Lee and H. S. Kim. 2008. Use of additives to capture nitrogen in ammoniated wheat straw: Intake, ruminal parameters, digestibility and nitrogen utilization in buffaloes. *Livest. Sci.* 114:347-353.
- M. I. Mustafa, J. P. Chadwick, P. Akhtar, S. Ali, M. Lateef, J. I. Sultan. 2008. Effect of concentrate and silage based Finishing Diets on the growth Performance and Carcass Characteristics of Suffolk Cross and Scottish Blackface Lambs. *Turkish J. of Veterinary and Animal Science.* 32(3):191-197.
- Razik, M. Younas, A. Iqbal and M.S. Khan. 2008. Socio economic profile of camel in Balochistan. *Camel journal.* (accepted)
- Z. Rehman, M. S. Khan, S. A. Bhatti, J. Iqbal and A. Iqbal. 2008. Factors affecting first lactation performance of Sahiwal cattle in Pakistan. *Archives of Animal Breeding* 51 (accepted).

National Publications

2007

- M. S. Khan, A. A. Bhatti, S. A. Bhatti and M. Ashiq. 2007. Semen Production and Productive life of Sahiwal Bulls - Relationship with Genetic worth. *Pakistan Vet. J.* 27(1):20-24.
- M. S. Khan, Muqarrab A. Khan, S. Ahmad and S. Mahmood. 2007. Genetic resources and diversity in Pakistani sheep. *Int. J. Agri. Biol.* 9 (6):941-944.
- M. S. Khan, N. Ahmad and Muqarrab A. Khan. 2007. Genetic resources and diversity in dairy buffaloes of Pakistan. *Pakistan Vet. J.* 27(4):201-207.
- S. A. Bhatti, M. Sarwar, M. S. Khan and S.M.I. Hussain. 2007. Reducing the age at calving through nutritional manipulations in dairy buffaloes and cows: a review. *Pakistan Vet. J.* 27(1):42-47.
- S. Ahmad and M. S. Khan. 2007. Karyology of Kari sheep. *Pakistan Vet. J.* 27(3):118-120.

2008

- G. Bilal and M. S. Khan. 2008. Use of test-day milk yield for genetic evaluation in dairy cattle: a review. *Pakistan Vet. J.* 28 (accepted)
- G. Bilal, M. S. Khan, I. R. Bajwa and M. Shafiq. 2008. Genetic control of test-day milk yield in Sahiwal cattle. *Pakistan Vet. J.* 28(1):21-24.
- M. S. Khan, G. Bilal, I. R. Bajwa and Z. Rehman. 2008. Estimation of breeding values of Sahiwal cattle using test day milk yields. *Pakistan Vet. J.* 28 (3) (accepted)
- M. S. Khan, Muqarrab A. Khan and S. Mahmood. 2008. Genetic resources and diversity in Pakistani goats. *Int. J. Agri. Biol.* 10 (2):227-231.
- M. S. Khan, Z. U. Rehman, M. A. Khan and S. Ahmad. 2008. Genetic resources and diversity in Pakistani cattle. *Pakistan Vet. J.* 28(2): 95-102.

Popular Articles

2007

- M. S. Khan. 2007. Revival of Sahiwal cattle through animal recording and shows. <http://www.fao.org/AG/againfo/programmes/en/genetics/documents/story46.html>
- M.S. Khan. 2007. Kari sheep – indispensable breed contributing rural livelihoods. <http://www.fao.org/AG/againfo/programmes/en/genetics/documents/story50.html>

Popular Talks

2007

- M. S. Khan. 2007. Sadi Sahiwal gaan (Our Sahiwal breed). A Punjabi talk at Sahiwal cattle Show/Mela at Kinjwani (Tehsil Samundari). Organized by Research Centre for Conservation of Sahiwal cattle, Jhang.

- M. S. Khan. 2007. Sahiwal gaan di ahmiyat (Importance of Sahiwal Cow). A Punjabi talk at Sahiwal cattle Show/Mela at Kabirwala (Chak Norang Shah). organized by Research Centre for Conservation of Sahiwal cattle, Jhang.
- M. S. Khan. 2007. Sahiwal gaan hi quoon (Why Sahiwal breed only). A Punjabi talk at Sahiwal cattle Show/Mela at Livestock Production Research Institute, Okara. organized by Research Centre for Conservation of Sahiwal cattle, Jhang.

FACULTY OF ANIMAL HUSBANDRY

Department of Poultry Science

International

2007

- Ahmad, T., T. Mushtaq, M.A. Khan, M.E. Babar, M. Yousaf, Zia-ul-Hassan and Z. Kamran. 2007. Influence of varying dietary electrolyte balance on broiler performance under tropical summer conditions. *Journal of Animal Physiology and Animal Nutrition* (Accepted for publication) Japan.
- Ayaz, M.M., M. Akhtar, I. Husnain, F. Muhammad and A.U.Haq. 2007. Maternal immunization by egg propagated gametocyte vaccine to control *Eimeria tanella* infections in newly hatched chicks. *Parasitol. Res.* 100:1339-1341.
- Babar, M.E., M. Abdullah, A.U. Haq, and A. Nadeem. 2007. Prion protein genepolymorphisms. *Mol. Bio. Rep.* DOI 10.1007/S 11033-007-9162-7.
- Mahmood, S., M. Ajmal Khan, M. Sarwar, M. Nisar, W.S. Lee, S.B. Kin, T.Y. Hur, H.J. Lee and H.S. Kin. 2007. Use of chemical treatments to reduce tannins and trypsin inhibitor contents in salseed (*Shorea robusta*) meal. *Asian Aust. J. Anim. Sci.*, 20(9): 1462-1467.

2008

- Ayaz, M.M., M. Akhtar, I. Husnain, F. Muhammad and A.U.Haq. 2008. Immunoglobulin producing cell in chickens immunized with *Eimeria tanella* gametocyte antigen vaccines. *Veterinari Medicina* 53:207-213.
- Nawaz, H., M. Shafiq, M. Yaqoob, M. Yousaf and F. Ahmad. 2008. Effect of varying levels of cholecalciferol on live performance and carcass characteristics of broiler chicks. *Indian Veterinary Journal* 85 : 851-854.
- Nawaz, H., M.A. Naseem, M. Yaqoob, F. Ahmad and M. Yousaf. 2008. Effect of dry yeast (*Saccharomyces cerevisiae*) on live performance and carcass characteristics of broiler chicks. *Indian Journal of Animal Sciences* 78 (1): 117-120.
- Yousaf, M. and A.S. Chaudhry. 2008. History, changing scenarios and future strategies to induce moulting in laying hens. *World's Poultry Science Journal* 64(1): 65-75.
- Yousaf, M. and A.S. Chaudhry. 2008. Non feed-removal methods to induce outling in egg laying hens. *The Journal of the University of Newcastle upon Tyne* 31: 13-15.

National

2007

- Akhtar, N., S. Mahmood, M. Hassan and F. Yaseen. 2007. Comparative study of potential and egg characteristics of Lyallpur Silver Black, Fayoumi and Rhode Island Red breeds of poultry. *Pak. Vet. J.*, 27(4): 184-166.
- Hayat, M., A.U. Haq, U. Farooq and F. Ahmad. 2007. Effect of Neem (*Azadirachta indica*) on growth performance in broiler chicks. Held on July 21, 2007. organized by Pakistan Veterinary Medical Association in collaboration with Institute of Animal Nutrition and Feed Technology, University of Agriculture, Faisalabad.

Mahmood, S., S. Mehmood, F. Ahmad, A. Masood and R. Kausar. 2007. Effects of feed restriction during starter phase on subsequent growth performance, dressing percentage, relative organ weights and immune response of broilers. *Pak. Vet. J.*, 27(3): 137-141.

2008

Ansari, J.Z., A. Haq, M. Yousaf, Tanveer Ahmad and S. Khan. 2008. Evaluation of different medicinal plants as growth promoters for broiler chicks. *Sarhad Journal of Agriculture* 24 (2): 323-329.

Yousaf, M., N. Ahmad, S. Khan and Tanveer Ahmad. 2008. Non-feed deprivation molting techniques, an innovative approach to induced molting, their impact on feather molt scoring and egg production of caged hens. *Sarhad Journal of Agriculture* 24 (2): 331-337.

INSTITUTE OF ANIMAL NUTRITION AND FEED TECHNOLOGY

International papers

2007

Ahmad, T. and M. Sarwar. 2007. Dietary electrolyte balance: implications in heat stressed broilers. *World's Poul. Sci. J.* 62:636-653.

Khan, M. A., M. Sarwar, T. Ahmed, S. A. Bhatti, M. Nisa and Wang-Shank Lee. 2007. Influence of organic acid or fermentable carbohydrates on feeding value of urea treated wheat straw for nili ravi buffaloes fed ad libitum diets. *Italian J. Animal Science.* 06: 508-511.

Khan, S. H., A. G. Khan, M. Sarwar and A. Azeem. 2007. Comparative study on biomass field and nutritive value of three cereal fodders. *SAARC J. Agriculture.*05:111-122.

Mushtaq, T., M. Sarwar, G. Ahmad, M. A. Mirza, H. H. Haroon and U. Noreen. 2007. Influence of canola meal-based diets supplementation with exogenous enzymes and digestible lysine on performance, digestibility, carcass and immunity response of broiler chicks. *Poultry Science.* 9:1361-1366.

Mushtaq, T., Mirza, M. A., Athar, M., Hooge, D. M., Ahmad, T., Ahmad, G., Mushtaq M. M. H. and Noreen. U. 2007. Dietary sodium and chloride for twenty-nine to forty-two days old broiler chickens at constant electrolyte balance under subtropical summer conditions. *The J. Applied Poultry Research* 16: 161-170.

Nisa, M., M. Sarwar, M. A. Shahzad and Z. Hassan. 2007. Influence of urea-molasses treated wheat straw fermented with cattle manure on nutrient intake, digestibilities, milk yield and its composition in early lactating Nili Ravi buffaloes. *Italian J. Animal Science.* 06: 480-484.

Sarwar, M., M. A. Shahzad and M. Nisa. 2007. Nutrients intake, acid base status and growth performance of growing Thalli lambs fed varying level of dietary cation anion difference. *Asian-Australasian J. Anim. Science.*20: 1858-1864.

Sarwar, M., M. A. Shahzad and M. Nisa. 2007. Influence of varying level of sodium bicarbonate on milk yield and its composition in early lactating Nili Ravi buffaloes. *Asian-Australasian J. Anim. Science.*20:1713-1720.

Sarwar, M., M. A. Shahzad, M. Nisa and A. Sufyan. 2007. Influence of Bovine Somatotropin and Replacement of Corn Dextrose with Concentrate on the Performance of Mid-Lactating Buffaloes Fed Urea-Treated Wheat Straw. *Turk. J. Vet. Anim. Science.*31:259-265.

Sarwar, M., M. Nisa, A. Javaid and M. A. Shahzad. 2007. Ruminant characteristics, blood pH, blood urea nitrogen and nitrogen balance in Nili Ravi buffalo (*bubalus bubalis*) bulls fed diets containing various level of ruminally degradable protein. *Italian J. Animal Science.* 06: 441-445.

Shahzad, M. A., M. Sarwar and M. Nisa. 2007. Nutrients intake, acid base status and growth performance of growing male buffalo calves fed varying level of dietary cation anion difference. *Livestock Science.* 111:136-143.

Shahzad, M. A., M. Sarwar and M. Nisa. 2007. Nutrients intake, acid base status and growth performance of growing male buffalo calves fed varying level of dietary cation anion difference. *Livestock Sci.*111:136-143.

Shahzad, M.A., M. Sarwar and M. Nisa. 2007. Effect of dietary cation anion difference on buffalo performance during summer. *Italian J. Animal Science.* 06:491-494.

- Touqir, N. A., Khan, M. A., M. Sarwar, M. Nisa, W. S. Lee, H.J. Lee and H. S. Kim. 2007. Influence of Varying dry matter and molasses levels on Berseem and Lucerne silage characteristics and their In Situ digestion kinetics in Nili Ravi buffalo bulls. *Asian-Australasian J. Anim. Science*.20:887-893.
- Touqir, N. A., Khan, M. A., M. Sarwar, M. Nisa, W. S. Lee, H.J. Lee and H. S. Kim. 2007. Influence of varying dry matter and molasses levels on berseem and Lucerne silage characteristics and their in situ digestion kinetics in Nili Ravi buffalo bulls. *Asian-Australasian J. Anim. Sci*.20:887-893.
- Touqir, N.A., M. A. Khan, M. Sarwar, M. Nisa, C.S. Ali, W. S. Lee, H.J. Lee and H.S. Kim. 2007. Feeding value of Jambo grass silage and Mott grass silage for lactating Nili buffaloes. *Asian-Australasian J. Anim. Science*.20:523-528.
- Touqir, N.A., M. A. Khan, M. Sarwar¹, M. Nisa, C.S. Ali, W. S. Lee, H.J. Lee and H.S. Kim. 2007. Feeding value of Jambo grass silage and Mott grass silage for lactating Nili buffaloes. *Asian-Australasian J. Anim. Sci*.20:523-528.

2008

- Haq Nawaz, M. Shafiq, M. Yousaf and Fawwad Ahmad. 2008. Effect of varying levels of cholecalciferol on live performance and carcass characteristics of broiler chicks. *Indian Vet. J.* 85:851-854
- Javaid, A., Mahr-un-Nisa, M. Sarwar, M.A. Shahzad. 2008. Ruminant characteristics, blood pH, blood urea nitrogen and nitrogen balance in Nili-Ravi buffalo (*bubalus bubalis*) bulls fed diets containing various level of ruminally degradable protein. *Asian-Aust. J. Anim. Sci.* 21(1):51-59.
- Kamran, Z., Sarwar, M. Nisa, M. A. Nadeem, and S. Ahmed. 2008. Effect of Low-Protein Diets Having Constant Energy-to-Protein Ratio on Performance and Carcass Characteristics of Broiler Chickens from One to Thirty-Five Days of Age. *Poultry Science.* 11:154-163.
- Mahr-un-Nisa, Javaid, A., M. Sarwar, M. A. Shahzad. 2008. Influence of varying ruminally degradable to undegradable protein ratio on nutrient intake, milk yield and nitrogen balance in early lactating Nili-Ravi buffaloes (*Bubalus bubalis*). *Asian-Aust. J. Anim. Sci.* 21:
- Nisa, M, Shahzad, M. A., M. Sarwar. 2008. Silage characteristics and Chemical Composition of Jambo silage and its Fodder with different Additives and Fermentation Periods and their In Situ Digestion Kinetics in Nili Ravi Buffalo bulls. *Turkish Journal of Veterinary and Animal Sciences.* 1: 311-317.
- Nisa, M., A. Javaid, M. A. Shahzad and M. Sarwar. 2008. Influence of varying ruminally degradable to undegradable protein ratio on nutrient intake, milk yield, nitrogen balance, conception rate and days open in early lactating Nili-Ravi buffaloes (*Bubalus bubalis*). *Asian-Australasian J. Anim. Sci*.20:210-218.
- Sarwar, M., M. Nisa, Z. Hassan and M. A. Shahzad. 2008. Influence of urea molasses treated wheat straw fermented with cattle manure on chemical composition and feeding value for growing buffalo calves. *Livestock Science*.105:151-161.
- Shahzad, M. A., M. Sarwar and M. Nisa. 2008. Influence of altering dietary cation anion difference on milk yield and its composition by early lactating Nili Ravi buffaloes in summer. *Livestock Science*.113:133-143.
- Shahzad, M. A., M. Sarwar and M. Nisa. 2008. Influence of varying dietary cation anion difference on serum minerals balance and hypocalcaemia in Nili Ravi buffaloes. *Livestock Science*.113:52-61.

National Papers

2007

- Ali, C. S., T. Khaliq, A. Javaid, M. Sarwar, M. A. Khan, M. A. Shahzad and S. Zakir. 2007. In vitro utilization of NPN sources by increasing levels of corn starch in straw based diets. *Pak. Vet. J.*, 27:95-101.
- Bhatti, S.A., M. Sarwar, M.S. Khan and S.M.I.Hussain. 2007. Reducing the age at calving through nutritional manipulations in dairy buffaloes and cows: a review. *Pak Vet. J* 27:42:47

2008

- Ali, C. S., T. Khaliq, M. Sarwar, A. Javaid, M. A. Shahzad, M. Nisa and S. Zakir. 2008. Effect of various nonprotein nitrogen sources on in vitro dry matter digestibility, ammonia production, microbial growth and pH changes by rumen bacteria. *Pak.. Vet. J.*, 28:25-30

- Zakir, S. J. C. Allen, M. Sarwar, Mahr-un-Nisa, S. A. Chaudhry, U. Arshad, A. Javaid and Islam-ud-din. 2008. Sweet potato glycemic index in relation to serum glucose level in human participants. *Int. J. Agri. Biol.* 10:311-15.
- Zakir, S., M. Sarwar, S. A. Chaudhry, J. Allen, M. S. Butt, Mahr-Un-Nisa, U. Arshad, Islam-Ud-Din and A. Javaid. 2008. Impact of sweet potato cultivars on blood glucose level in diabetic and healthy participants. *Int. J. Agri. Biol.* 10:316-20.

Abstracts (Foreign & National)

2007

- Ali, C.S., M. Sarwar., M. Aasif Shahzad and M. Nisa. 2007. Influence of altering non-protein nitrogen sources on rumen bacteria count. *Proceedings: International Livestock and Poultry Congress.* 27-28 March, pp. 125-127, Organized by Pakistan Veterinary Medical Association, Pearl Continental Hotel, Lahore, Pakistan
- Ali, C.S., M.A. Shahzad, M. Sarwar and M. Nisa. 2007. In Vitro dry mater digestibility as affected by varying non-protein nitrogen sources. *Proceedings: International Livestock and Poultry Congress.* 27-28 March, pp. 32-34, Organized by Pakistan Veterinary Medical Association, Pearl Continental Hotel, Lahore, Pakistan
- Haroon, M, M. Nisa, M.A. Shahzad and M. Sarwar. 2007. Growth performance of broiler chicks fed high fiber diets supplemented with varying level of Rova Bio. *International Nutrition Conference; Poultry Nutrition Section.* 23-24 February, pp. 48, University of Agriculture, Faisalabad, Pakistan.
- J. I. Sultan, A. Javaid, M. Yaqoob, P. Akhtar. 2007. Effect of varying ruminally degradable to undegradable protein ratio on feed intake, nutrient digestion and N balance of buffalo calves. *J. Anim. Sci. Proceedings.*
- Javaid, A., M. Nisa., M. Sarwar and M. Aasif Shahzad. 2007. Effect of different levels of ruminally degradable protein and ruminally degradable protein levels on nutrient intake, ruminal characteristics, digestibility, milk yield and reproductive performance of lactating buffaloes. *Proceedings: International Livestock and Poultry Congress.* 27-28 March, pp. 90-93, Organized by Pakistan Veterinary Medical Association, Pearl Continental Hotel, Lahore, Pakistan
- Javaid, A., M. Nisa., M. Sarwar, M. Aasif Shahzad and C.S. Ali. 2007. Effect of varying ruminally degradable protein levels on nutrient intake, digestibilities by Nili Ravi buffalo bulls. *Proceedings: International Livestock and Poultry Congress.* 27-28 March, pp. 86-89, Organized by Pakistan Veterinary Medical Association, Pearl Continental Hotel, Lahore, Pakistan
- Kaman, M. Sarwar, M. Nisa, M.A. Nadeem, S. Mahmood and M.A. Shahzad. 2007. Effect of Low Levels of Dietary Protein on Growth, Protein Utilization and Body Composition of Broiler Chicks During one to Twenty-Six Days of Age. *International Nutrition Conference; Poultry Nutrition Section.* 23-24 February, pp. 49, University of Agriculture, Faisalabad, Pakistan.
- Mushtaq, T., Sarwar, M., Ahmad, G., Mirza, M. A. and Mushtaq, M. M. H. 2007. Influence of feed phosphates and phytase supplementation on broiler performance. *Joint ADSA-PSA-AMPA-ASAS*
- Nisa, M, M. Sharif, M.A. Shahzad and Z. Sarwar. 2007. Effect of cationic and anionic diets on nutrient intake, acid base status, milk yield and its composition in early lactating Nili Ravi buffaloes during winter. *International Nutrition Conference; General Animal Nutrition Section.* 23-24 February, pp. 25, University of Agriculture, Faisalabad, Pakistan.
- Nisa, M, M.A. Shahzad, M. Sarwar and M.A. Khan. 2007. Nutrient intake, Digestion Kinetics and Digestibility in Buffalo Bulls fed Urea Treated Corncobs Ensiled with or without Enzose (corn dextrose). *International Nutrition Conference; General Animal Nutrition Section.* 23-24 February, pp. 26, University of Agriculture, Faisalabad, Pakistan.
- Nisa, M, M. Sarwar and M.A. Shahzad. 2007. Effect of replacing concentrate with enzose and corn steep liquor on nutrient intake, digestibility, and nitrogen balance in ruminally cumulated buffalo bulls fed corn cob based diet. *Proceedings: International Livestock and Poultry Congress.* 27-28 March, pp. 21-28, Organized by Pakistan Veterinary Medical Association, Pearl Continental Hotel, Lahore, Pakistan
- Sarwar, M, M. Nisa, M.A. Shahzad and M. Sharif. 2007. Nutrient intake, ruminal characteristics, nitrogen metabolism and in situ digestion kinetics in Nili Ravi buffalo bulls fed anionic and cationic diets.

- International Nutrition Conference; General Animal Nutrition Section.23-24 February, pp. 30, University of Agriculture, Faisalabad, Pakistan.
- Sarwar, M. M. Nisa, M.A. Shahzad and Z. Hassan. 2007. Effect of replacement of varying level of concentrate with urea molasses treated wheat straw ensiled with manure on ruminal characteristics, in situ digestion kinetics and nitrogen metabolism in Nili-Ravi buffalo bulls. International Nutrition Conference; General Animal Nutrition Section.23-24 February, pp. 24, University of Agriculture, Faisalabad, Pakistan.
- Sarwar, M., M. A. Shahzad, M. Nisa and C.S. Ali. 2007. Biological and Chemical tools to improve the nutritive value of low quality forages/fodders and crop residues for ruminants. Proceedings: International Livestock and Poultry Congress. 27-28 March, Pp.. 6-12, Organized by Pakistan Veterinary Medical Association, Pearl Continental Hotel, Lahore, Pakistan
- Sarwar, M., M. Aasif Shahzad, M. Nisa. 2007. Crop Livestock Systems under Saline Environments. ICARDA-Workshop–Improving nutritional value of low quality fodders, forages and crop residues through biological and chemical means. May 24-26, Tashkent, Uzbekistan.
- Sarwar, M., M.A.Shahzad and M. Nisa. 2007. Serum minerals, mineral balance and occurrence of hypocalcemia in buffaloes fed varying level of dietary cation anion difference during winter. International Nutrition Conference; General Animal Nutrition Section.23-24 February, pp. 28, University of Agriculture, Faisalabad, Pakistan.
- Sarwar,M., M.A.Shahzad, M. Nisa and N.A.Tauqir. 2007. Silage characteristics and Chemical Composition of Jambo silage and its Fodder with different Additives and Fermentation Periods and their In Situ Digestion Kinetics in Nili Buffalo bulls. International Nutrition Conference; General Animal Nutrition Section.23-24 February, pp. 27, University of Agriculture, Faisalabad, Pakistan.
- Shahzad, M.A., M. Sarwar, M. Nisa and C.S.Ali. 2007. Reducing the occurrence of milk fever in buffaloes through dietary cation anion difference during summer. Proceedings: International Livestock and Poultry Congress. 27-28 March, PP. 77-82, Organized by Pakistan Veterinary Medical Association, Pearl Continental Hotel, Lahore, Pakistan
- Shahzad, M.A., M.Sarwar and M. Nisa. 2007. Acid base status and occurrence of milk fever in buffaloes fed varying level of dietary cation anion difference during winter. International Nutrition Conference; General Animal Nutrition Section.23-24 February, pp. 29, University of Agriculture, Faisalabad, Pakistan
- Shahzad, M.A., M. Sarwar, M. Nisa, M. Sharif and C.S. Ali. 2007. Nutrients intake, digestibilities and digestion kinetics in Nili Ravi buffalo bulls fed varying level of dietary cation anion difference. Proceedings: International Livestock and Poultry Congress. 27-28 March, Pp.. 70-73, Organized by Pakistan Veterinary Medical Association, Pearl Continental Hotel, Lahore, Pakistan.
- T. Mushtaq, H. Nawaz, Mirza, M. A., Athar, M., Mushtaq, M. M. H. Ahmad, G. and Noreen, U. 2007. Dietary salt combinations for broiler chickens under subtropical summer conditions: Live performance, carcass and blood responses. Joint ADSA-PSA-AMPA-ASAS
- Yasmin, K, M.A.Nadeem, M.Sarwar, M.A.Shahzad and M.Nisa. 2007. Influence of phytase enzyme (Biofeed) supplementation on phosphorus bioavailability and growth performance of broiler chicks. International Nutrition Conference; Poultry Nutrition Section. 23-24 February, pp. 47, University of Agriculture, Faisalabad, Pakistan.

National Press Articles

- M.Sarwar and M.Aasif Shahzad. Livestock Feed Industry awaiting industry. The Nation; Business News. 29th January 2007.

FACULTY OF VETERINARY SCIENCE

Department of Clinical Medicine & Surgery

2007

- Ahmad, T., M. Q. Bilal, S. Ullah, Zia-ur-Rahman and G. Muhammad. 2007. Impact of mastitis on mineral contents of buffalo milk. Pak. J. Agri. Sci., 44 (1): 55-57

- Naureen, A, M. Saqib, G. Muhammad, M. H. Hussain and M. N. Asi. 2007. Comparative evaluation of Rose Bengal Plate Agglutination Test, Mallein and Some Conventional Serological Tests for Diagnosis of Spontaneous Equine Glanders. *Journal of Veterinary Diagnostic Investigation*, 19 (4): 362-67
- Sharif, A. and T. Ahmad. 2007. Prevalence of severity of mastitis in buffaloes in District Faisalabad (Pakistan). *J. Agri. Soc. Sci.*, 3: 88-89
- Sharif, A., T. Ahmad, M. Q. Bilal, A. Yousaf, G. Muhammad, Sajjad-ur-Rehman and F. M. Pansota. 2007. Estimation of milk lactose and somatic cells for the diagnosis of subclinical mastitis in dairy buffaloes. *Int. J. Agri. Biol.*, 9: 106-109

2008

- Ali, L., G. Muhammad, M. Arshad, M. Saqib, and I.J. Hassan. 2008. Bacteriology of mastitis in buffaloes in Tehsil Samundri of district Faisalabad, Pakistan. *Pak. Vet. J.* 28: 31-33
- Athar, M., G. Muhammad, A. Shakoor, M. Saqib, R. Ahmad and A. Naureen. 2008. A preliminary study on the effect of inactivated polyvalent mastitis vaccines on milk quantity and quality in dairy buffaloes. *Pak. Vet. J.*, 27 : 85-91
- Mahfooz, A., M. Z. Masood, A. Yousaf, N. Akhtar and M. A. Zafar. 2008. Prevalence and anthelmintic efficacy of abamectin against gastrointestinal parasites in horses. *Pak. Vet. J.*, 28 (2): 76-78
- Muhammad G., M. H. Hussain, M. Saqib, M. K. Mansoor, M. N. Asi and A. Naureen. 2008. Epidemic resurgence of a goat specific syndrome simulating goat dermatitis in Punjab and Sindh Provinces of Pakistan. *Sm. Rumin. Res.*, 75: 48-53
- Zafar, M. A. and M. H. Hussain. 2008. Comparative efficacy of hypertonic lactated ringer's solution, hypertonic saline solution and lactated ringer's solution in experimentally induced hypovolemic shock in dogs. In: *Proc. National Seminar on Animal Health – Reflections and Future Horizons*, March 6, 2008. University of Agriculture, Faisalabad, Pakistan. Pp: 102-110

Department of Microbiology

2007

- Aamir Sharif, Tanveer Ahmed, M. qamer Bilal, Arfan yousaf, Ghulam Muhammad, Sajjad ur Rahman and Faisal Masood Pansota. 2007. Estimation of milk lactose and somatic cells for the diagnosis of sub clinical mastitis in dairy buffaloes. *International journal of Agriculture and Biology* 9(2):267-270.
- Ali, S., M. Arshad, M. Siddique and M. Ashraf. 2007. Preparation and evaluation of vitamin E adjuvanted oil emulsified Infectious Bronchitis Vaccine. *Pakistan Vet. J.*, 27(4): 159-162.
- Asgher, M., M. Javaid Asad, S.U. Rahman, R.L. Legge. 2007. A thermostable α - amylase from a moderately thermophilic *Bacillus subtilis* strain for starch processing. *J Food Eng* .79; 950-955
- Chishty, M. A., M. Arshad, M. Avais, S. Hameed and M. Ijaz. 2007. Cross-sectional epidemiological studies on mastitis in cattle and buffaloes of tehsil Gojra, Pakistan. *Buffalo Bulletin*, 26(2): 50-55.
- H. A. Khan, M. Siddique, M. J. Arshad, Q. M. Khan and S. U. Rahman. 2007. Sero-prevalence of Peste Des Petits Ruminants (PPR) virus in sheep and goats in Punjab province of Pakistan. *Pakistan Vet. J.*, 2007, 27(3): 109-112.
- Hussain, I., M. S. Mahmood, M. Akhtar and A. Khan. 2007. Prevalence of *Campylobacter* species in meat, milk and other food commodities in Pakistan. [Food Microbiology](#), 24(3):219-222.
- Imran, M., M. Arshad, M. A. Shahid and M. Ashraf. 2007. Carrier status of *Pasteurella multocida* in healthy cattle and buffalo in district Faisalabad. *International Journal of Dairy Science*, 2(4): 398-400.
- Khan, M. A., I. Hussain, M. Siddique, S.U. Rahman and M. Arshad. 2007. Adaptation of a local Wild Infectious Bursal Disease Virus on Chicken Embryo Fibroblast Cell Culture. *International Journal of Agriculture & Biology*. 9(6): 925-927.
- M. Kamal Shah, A. Khan, F. Rizvi, M. Siddique and Sadeeq-ur-Rehman. 2007. Effect of cypermethrin on clinico-haematological parameters in rabbits. *Pakistan Vet. J.*, 27(4): 171-175.
- M.A. Sandhu, Z.U. Rahman, I. Javed and S.U. Rahman. 2007. Changes in macrophage functions during molt-induced second and third production cycles in laying hens. *Archive Geflugelk* 71(4) 181-186

- Mahmood, M.S., I.Hussain, M. Siddique, M. Akhtar and S. Ali. 2007. DNA vaccination with VP2 gene of Very virulent infectious bursal disease virus (vvIBDV) delivered by transgenic E. coli DH5a given orally confers protective immune response in chickens. *Vaccine* 25:7629-7635.
- Mansur A.Sandhu, Zia U. Rahman, Sajjad U. Rahman and Ijaz J. Hassan. 2007. Dynamics of innate immune response in *Gallus domesticus* using two methods of induced molting. *Veterinary Immunology and Immunopathology* 120: 106-114.
- Muhammad Akbar Shahid, Muhammad Siddique, Sajjad-Ur-Rahman, Sajid Hameed and Abid Hussain. 2007. Evaluation of a Microbiological Growth Inhibition Assay as a Screening Test for the Presence of Antibiotic Residues in Poultry Meat. *American Journal of Food Technology* 2(5): 457-461
- Nadeem, M., M. N. Khan, Z. Iqbal, M. S. Sajid, M. Arshad and M. Yaseen. 2007. Determinants influencing prevalence of louse infestations on layers of District Faisalabad (Pakistan). *British Poultry Science*, 48(5): 546-550.
- Shahid M.A., M. Siddique, S.U. Rahman, S. Hameed and A. Hussain. 2007. Evaluation of a Microbiological Growth Inhibition Assay as a Screening Test for the Presence of Antibiotic Residues in Poultry Meat. *American Journal of Food Technology* 2(5): 457-461.

2008

- Ahmad, S., M. Ashraf, M. Siddique, F. Mahmood, M. Arshad and H. A. Khan. 2008. Biofilm formation and drinking water quality in relation to *Escherichia coli* at commercial poultry farms. *J. Agri. Soc. Sci.*, 4(2): 77-80.
- Ahrar. K., I. Ali, I. Hussain, N. Ahmad. 2008. *Clostridium perfringens* Type D Enterotoxaemia in the Chinkara Deer (*Gazella bennettii*). *Turk. J. Vet. Anim. Sci.* 2008; 32(3): 225-228.
- Ali, L., G. Muhammad, M. Arshad, M. Saqib and I. J. Hassan. 2008. Bacteriology of Mastitis in buffaloes in Tehsil Samundry of district Faisalabad, Pakistan. *Pakistan Vet. J.*, 28(1): 31-33.
- Ayaz M.M., M. Akhtar, I. Hussain, F. Muhammad, A.U. Haq. 2008. Immunoglobulin producing cells in chickens immunized with *Eimeria tenella* gametocyte antigen vaccines. *Veterinari Medicina*, 53, 2008 (4): 207–213.
- Badar, N., M. Arshad and U. Farooq. 2008. Characteristics of *Anethum graveolens* (Umbelliferae) Seed Oil: Extraction, Composition and Antimicrobial Activity. *International Journal of Agriculture & Biology*, 10(3): 329-332.
- Hussain. I., I. Arshad, M.S. Mahmood, M. Akhtar and S. Ali. 2008. Seroprevalence of Brucellosis in Human, Cattle, and Buffalo Populations in Pakistan. *Turk. J. Vet. Anim. Sci.* 2008; 32: 315-318.
- Khan A, Faridi HA, Ali M, Khan MZ, Siddique M, Hussain I, Ahmad M. 2008. [Effects of cypermethrin on some clinico-hemato-biochemical and pathological parameters in male dwarf goats \(*Capra hircus*\)](#). *Exp Toxicol Pathol*.
- Muhammad, G., M. H. Hussain, M. Saqib, M. K. Mansoor, M. N. Asi and A. Naureen. 2008. Epidemic resurgence of goat-specific syndrome simulating goat dermatitis in Punjab and Sindh provinces of Pakistan. *Small Ruminant Research*. 75: 48–53.
- S. Manzoor, M. Siddique, S. Ur. Rahman and M. Ashraf. 2008. Occurrence of Lancefield group C Streptococcal species in strangles cases of foals in Punjab, Pakistan. *Pakistan Vet. J.*, 28(1):17-20.

Department of Physiology and Pharmacology

Research publications

2007

- AKHTAR, H., MUHAMMAD, F., AKHTAR, M.S., AND AKHTAR, M.S. 2007. Effect of antipyrine on disposition kinetics of ciprofloxacin in dogs. *Pharmacology online* 1: 581-587.
- IQBAL, Z., JAVED, I., ASLAM, B., MUHAMMAD, F., AND JAN, I.U. 2007. Renal clearance and urinary excretion of ciprofloxacin in goats. *Pakistan Vet. J.* 27 (4):179-183.
- KHAN,Z.I., M. ASHRAF, I. JAVED AND S. ERMIDOU-POLLET. 2007. Transfer of sodium from soil and forage to sheep and goat grazing in a semi arid region of Pakistan: Influence of the season. *Trace Elements and Electrolytes*, 24(1):49-54

- MUHAMMAD SHAHBAZ YOUSAF, ZIA-UR-RAHMAN, MANSUR ABDULLAH SANDHU, SHAZIA ANWER BUKHARI AND ARFAN YOUSAF. 2007. Comparison of the fast-induced and high dietary zinc-induced molting: Trace elements dynamics in serum and eggs at different production stages in chickens (*Gallus domesticus*). *J. Anim. Physiol. Anim. Nutri.* (ACCEPTED).
- MUHAMMAD, F., A. RIAZ, M. AKHTAR, M.I. ANWAR, F. MAHMOOD, I. JAVED, T. KHALIQ, Z.U. RAHMAN, F.H. KHAN AND S. BASHIR. 2007. Estimation of Atrazine in stratum corneum and its toxic effects in skin following topical application to rabbits. *Journal of Toxicology Mechanisms and Methods.* (IN PRESS).
- SANDHU, M.A., Z.U. RAHMAN AND S.U. RAHMAN. 2007. Effects of induced molting on some immunological parameters in laying hens (*Gallus domesticus*). *Archiv Für Geflügelkunde.* 71(3): S. 110-116.
- SANDHU, M.A., Z.U. RAHMAN, I. JAVED AND S.U. RAHMAN. 2007. Changes in macrophage functions during molt-induced second and third production cycles in laying hens. *Archiv Für Geflügelkunde.* 71(4): S. 181-186.
- SANDHU, M.A., Z.U. RAHMAN, I.J. HASAN, S.U. RAHMAN AND M.S. YOUSAF. 2007. Changes in luteinizing-hormone containing gonadotrophs after molting induced by fasting and zinc in laying hens (*Gallus domesticus*). *J. Anim. Physiol. Anim. Nutri.* (ACCEPTED).
- SANDHU, M.A., ZIA U. RAHMAN, S.U. RAHMAN AND IJAZ J. HASSAN. 2007. Dynamics of innate immune response in *Gallus domesticus* using two methods of induced molting. *Vet. Immunol. Immunopathol.* 120: 106-114.
- SHUJAIT ALI, NAZIR AHMAD, NAFEES AKHTAR, ZIA-UR-RAHMAN AND DAVID E. NOAKES. 2007. Metabolic contents of blood serum and fluid from small and large sized follicles in dromedary camels during the peak and the low breeding seasons. *Animal Reproduction Science* (ACCEPTED).
- SHUJAIT ALI, NAZIR AHMAD, NAFEES AKHTAR, ZIA-UR-RAHMAN AND M. SARWAR. 2007. Effect of season and age on the ovarian size and activity of one humped camel (*Camelus dromedaries*). *Asian-Australasian Journal of Animal Sciences.* 20(9): 1361-1366.
- TANVEER AHMAD, M.Q. BILAL, S. ULLAH, ZIA-UR-RAHMAN AND G. MUHAMMAD. 2007. Impact of mastitis severity on mineral contents of buffalo milk. *Paki. J. Agri. Sci.* 44(1): 176-178.
- ZIA-UR-RAHMAN, N. AHMAD, SHAZIA ANWER BUKHARI, N. AKHTAR AND I.U. HAQ. 2007. Serum hormonal, electrolytes and trace elements profiles in the rutting and non-rutting one humped male camel (*Camelus dromedarius*). *Animal Reproduction Science.* 101: 172-178.
- ZIA-UR-RAHMAN, SHAZIA ANWER BUKHARI, N. AHMAD, N. AKHTAR, AHMAD IJAZ AND I.U. HAQ. 2007. Dynamics of follicular fluid in one-humped camel (*Camelus dromedaries*). *Reproduction in Domestic Animals.* (IN PRESS).

Abstracts

2007

- A NOUREEN, M. SAQIB, G. MUHAMMAD AND F. MUHAMMAD. 2007. Minimum inhibitory concentration of 20 antibiotics against isolates of *Burkholderia mallei*-A causative agent of glanders. *Proceeding: International livestock and poultry congress, March 27-27, Pakistan.*
- AHMAD, F., S. MAHMOOD, U. FAROOQ, Z. RAHMAN AND M. ASHRAF. 2007. Evaluation of various feeding strategies for efficient broiler production during summer. *Nutritional Conference, University of Agriculture, Faisalabad.*
- AKHTAR, M., HAFEEZ, M.A., MUHAMMAD, F., AND HAQ, A.U. 2007. Immunomodulatory and protective effect of sugar cane juice in chickens against *Eimeria* infection. *Seattle Parasitology Conference, May 17-18, Seattle, Washington, USA.*
- F. MUHAMMAD, A. RIAZ, M.I. ANWAR, I. JAVED AND T. KHALIQ. 2007. Estimation of Atrazine in the stratum corneum and its toxic effects in skin following its topical application. *Abstract ID # 1287, The Toxicologist CD- An official journal of the Society of Toxicology, Volume 96, Number S-1.*
- F. MUHAMMAD, M. AKHTAR, Z.U. RAHMAN, F.H. KHAN, AND M.I. ANWAR. 2007. How can veterinarians play their role in safeguarding the public health. *International Conference on Agriculture Food and Animal Sciences. Sindh Agriculture University Tandojam-Pakistan. November 27-29.*

- MANSUR A. SANDHU, ZIA U. RAHMAN AND SAJJAD U. RAHMAN. 2007. Comparison of the fast and zinc-induced molting on trace elements dynamic of Gallus domesticus. Asian Pacific Poultry Conference (APPC2007), Bangkok from 5-6 March.
- MUHAMMAD SHAHBAZ YOUSAF, FARRAH SHAHBAZ AND ZIA-UR-RAHAMAN. 2007. Plasma metabolites, hormones, electrolytes and trace elements dynamics in young rats supplemented with Tannic Acid. National Nutrition Conference, Univ. of Agri., Faisalabad.
- ZIA U. RAHMAN, SAJJAD U. RAHMAN, FAIZ AHMAD AND MANSUR A. SANDHU. 2007. Immunological responses using two methods of molt-induced second production cycle in Gallus domesticus. Asian Pacific Poultry Conference (APPC 2007), Bangkok from 5-6 March.
- ZIA U. RAHMAN. 2007. Effect of different protein and energy levels on post-molt egg production and quality in spent hens (Gallus domesticus). XVIII European Symposium on the Quality of Poultry Meat and XII European Symposium on the Quality of Eggs and Egg Production of WPSA Prague, 2-5 September.
- ZIA-UR-RAHMA AND T. KHALIQ. 2007. Response of buffalo to high dose of bovine somatotropin. October 19-22, Caserta, Italy.
- ZIA-UR-RAHMA, FATIMA BATOOL, NIGHAT BHATTI AND FARHEEN ASAD. 2007. Alternation of macro and micro minerals in pre, peri and post-menopausal women. 2nd International Symposium on Trace Elements and Health. 18-20 June, Helsinki, Finland.
- ZIA-UR-RAHMAN, MANSUR ABDULLAH SANDHU AND SEHAR AFZAL. 2007. Plasma metabolites, hormones, electrolytes and trace elements profiles in male rats supplemented with chromium picolinate. National Nutrition Conference, Univ. of Agri., Faisalabad

Laboratory Manuals

2007

- ZIA-UR-RAHMAN, BILAL ASLAM AND IJAZ HASSAN JAVED. 2007. Physiological Chemistry. Department of Physiology and Pharmacology, University of Agriculture, Faisalabad. 1st Edition. ISBN 978-969-8237-29-5.
- ZIA-UR-RAHMAN, BILAL ASLAM, J.A. KHAN AND TANVEER KHALIQ. 2007. Physiology-I. Department of Physiology and Pharmacology, University of Agriculture, Faisalabad. 2nd Edition. ISBN 978-969-8237-27-1.
- ZIA-UR-RAHMAN. BILAL ASLAM, J.A. KHAN AND TANVEER KHALIQ. 2007. Physiology-II. Department of Physiology and Pharmacology, University of Agriculture, Faisalabad. 2nd Edition. ISBN 978-969-8237-28-8.

Department of Theriogenology

Papers Published

2007

- Jamil, H., H.A. Samad, N.U. Rehman, Z.I. Qureshi and L.A. Lodhi, 2007. In vitro maturation and fertilization of Riverine buffalo follicular oocytes in media supplemented with oestrus buffalo serums and hormones. Acta Veteraria Brno. 76: 399-404.
- Jamil, H., H.A. Samad, Z.I. Qureshi, N. Rehman and L.A. Lodhi, 2007. Effect of bull and sperm preparation method on in vitro fertilization of buffalo oocytes. Pakistan Veterinary Journal, 27(1): 29-34.
- Ali, S., N. Ahmad, N. Akhtar, Zia-ur-Rehman and M. Sarwar. 2007. Effect of season and age on the ovarian size and activity of one-humped camel (Camelus dromedarius). Asian-Australasian Journal of Animal Science, 20(9): 1361-1366.
- Zia-ur-Rehman, N. Ahmad, S.A. Bukhari, N. Akhtar and I.U. Haq. 2007. Serum hormonal, electrolytes and trace element profiles in the rutting and non-rutting one-humped male camel (Camelus dromedarius). Animal Reproduction Science, 101: 172-178.

2008

- Ali, S., N. Ahmad, N. Akhtar, Zia-ur-Rehman and D.E. Noakes. 2008. Metabolite contents of blood serum and fluid from small and large sized follicles in dromedary camels during the peak and the low breeding seasons. *Animal Reproduction Science*, 108: 446-456.
- Dilshad, S.M.R., N. Rehman, Z. Iqbal, G. Muhammad, A. Iqbal and N. Ahmed. 2008. An inventory of the ethnoveterinary practices for reproductive disorders in cattle and buffaloes, Sargodha district of Pakistan. *Journal of Ethnopharmacology*, 117: 393-402.
- Jamil, H., H.A. Samad, Z.I. Qureshi, N.U. Rehman and L.A. Lodhi. 2008. Harvesting and evaluation of Riverine buffalo follicular oocytes. *Turkish Journal of Veterinary and Animal Sciences*, 32(1): 25-30.
- Khan, A., I. Ali, I. Hussain and N. Ahmad, 2008. Clostridium perfringens type D enterotoxaemia in the Chinkara deer (*Gazella bennettii*). *Turkish Journal of Veterinary and Animal Sciences*, 32(3): 225-228.
- Qureshi, M.S and N. Ahmad. 2008. Interaction of calf suckling, use of oxytocin and milk yield with reproductive performance of dairy buffaloes. *Animal Reproduction Science*, 106: 380-392.

Papers Submitted for Publication:

2008

- Akhtar, M.S., L.A. Lodhi, I. Ahmad, Z.I. Qureshi and G. Muhammad. 2008. Serum concentrations of calcium, phosphorus and magnesium in pregnant Nili-Ravi buffaloes with or without vaginal prolapse in irrigated and rain fed areas of Punjab, Pakistan. *Pakistan Veterinary Journal* (Accepted for publication).
- Lodhi, L.A., M. Zubair, Z.I. Qureshi, I. Ahmad and H. Jamil. 2008. Correlation between hypo-osmotic swelling test and various conventional semen evaluation parameters in fresh Nili-Ravi buffalo and Sahiwal cow bull semen sample. *Pakistan Veterinary Journal* (Submitted for publication).
- Zia-ur-Rehman, S.A. Bukhari, N. Ahmad, N. Akhtar, A. Ijaz, M.S. Yousaf and I.U. Haq. 2008. Dynamics of follicular fluid in one-humped camel (*Camelus dromedaries*). *Reproduction in Domestic Animals* (Accepted for publication).

Department of Anatomy

Research Publications:

2007

- Qureshi, A.S. and R. Hussain. 2007. Morphometric evaluation of the blood pressure related organs in Nili-Ravi buffaloes. *Italian J. Anim. Sci.*, 6 (suppl. 2) 961-964.
- R. Hussain and A.S. Qureshi. 2007. Agr-related changes in the morphometric parameters of the heart, kidneys and adrenal glands of nili-ravi buffaloes. *Italian J. Anim. Sci.*, 6 (suppl. 2) 995-998.
- Rehan, S. and A. S. Qureshi. 2007. Morphometric evaluation of the heart, kidneys and adrenal glands of dromedary camel calves (*Camelus dromedarius*). *J. Camel Prac. Res. (India)* 14(1):27-31.

National

2007

- Qureshi, A.S. and H. Enbergs. 2007. Effects of *Sausurea lappa* root extract on leukocyte phagocytic activity, lymphocyte proliferation and interferon-gamma. *Pakistan J. Pharm. Sci.*, 20(3): 175-179.
- Shah, M.G., A. S. Qureshi, M. Reissmann, H. J. Schwartz. 2007. Single nucleotide polymorphism in the coding region of MYF5 Gene of the camel (*Camelus dromedaries*). *Pakistan Vet. J.* 27(3) 168-172.

Department of Parasitology

Research publications, journals and books

2007

- Aatish, H.U., Z.U.D. Sindhu, Z. Iqbal, A. Jabbar, and Z. Tasawar. 2007. Prevalence of sheep mange in District Dera Ghazi Khan (Pakistan) and associated haemological/biochemical disturbances. *Int. J. Agri. Biol.*, 9: 917–920.
- Abdul Jabbar, Muhammad Arfan Zaman, Zafar Iqbal, Muhammad Yaseen and Asim Shamim. 2007. Anthelmintic activity of *Chenopodium album* (L.) and *Caesalpinia crista* (L.) against trichostrongylid nematodes of sheep. *Journal of Ethnopharmacology*, 114: 86-91.
- Hafeez, M.A, M. Akhtar, M.T. Javed and A.U. Haq, 2007. Maternal immunization by egg propagated gametocyte vaccine to control *Eimeria tenella* infections in newly hatched chicks. *Parasitol. Res.* 100: 1139-1142.
- Hasan, M., M.N. Khan, M. Mushtaq, Z. Iqbal, A.A. Farooq, M.S. Sajid and H.M. Waheed, 2007. Prevalence of Warble Fly Infestation in Chakwal, Punjab. *Italian Journal of Animal Science*, 6 (Suppl. 2): 942-944
- Hussain, I., M.S. Mahmood, M. Akhtar and A. Khan. 2007. Prevalence of *Campylobacter* species in meat, milk and other food commodities in Pakistan. *Food Microbiology*. 24: 219-222.
- Iqbal, Z., Muhammad Sarwar, Abdul Jabbar, Shahbaz Ahmed, Mahr-un-Nisa, Muhammad Sohail Sajid, Muhammad Nisar Khan, Kamran Aftab Mufti and Muhammad Yaseen, 2007. Direct and Indirect Anthelmintic Effects of Condensed Tannins in Sheep. *Veterinary Parasitology*, 144: 125-131
- Khan, M.N., M.S. Sajid, Z. Iqbal and M. Anwar, 2007. Emergence season of warbles caused by *Hypoderma lineatum* in Southern Punjab-Pakistan. *Animal Science Journal (Japan)*, 78: 206-210
- Mahmood, M.S., I. Hussain, M. Siddique, M. Akhtar and S. Ali. 2007. DNA vaccination with VP2 gene of very virulent infectious bursal disease (vvlIBDV) delivered by transgenic *E. coli* DH5 alpha given orally confers protective immune responses in chickens. *Vaccine*. 25: 7629-7635.
- Muhammad Asif Raza, Zafar Iqbal, Abdul Jabbar and Muhammad Yaseen. 2007. Point prevalence of gastrointestinal helminthiasis in ruminants in southern Punjab, Pakistan. *Journal of Helminthology*, 81: 323-328
- Nadeem, M., M.N. Khan, Z. Iqbal, M.S. Sajid, M. Arshad and M. Yaseen. 2007. Determinants influencing prevalence of louse infestations on layers of District Faisalabad (Pakistan). *British Poultry Science*, 48: 546–550
- Saeed, M., Zafar Iqbal and Abdul Jabbar. 2007. Oxfendazole Resistance in Gastrointestinal Nematodes of Beetal Goats at Livestock Farms of Punjab (Pakistan). *Acta Veterinaria Brunensis*, 76: 79-85
- Sajid, M.S., Z. Iqbal, M.N. Khan, G. Muhammad and M.U. Iqbal. 2007. Effect of Hyalomma Ticks (Acari: Ixodidae) on Milk Production of Dairy Buffaloes (*Bos Bubalus Bubalis*) of Punjab (Pakistan). *Italian Journal of Animal Science*, 6 (Suppl. 2): 939-941
- Sajid, M.S., Zafar Iqbal, Ghulam Muhammad, Mansur Abdullah Sandhu, Muhammad Nisar Khan, Muhammad Saqib, Muhammad Umair Iqbal. 2007. Effect of ivermectin on the cellular and humoral immune responses of rabbits. *Life Sciences*, 80: 1966-1970

2008

- Abdul Jabbar, Zafar Iqbal, Hafiz Abubaker Saddiqi, Wasim Babar and Muhammad Saeed. 2008. Prevalence Of Multiple Anthelmintic Resistant Gastrointestinal Nematodes In Dairy Goats In A Desolated Tract (Pakistan). *Parasitology Research*, 103: 29-35
- Altaf Hussain, Muhammad Nisar Khan, Zafar Iqbal and Muhammad Sohail Sajid. 2008. An Account of the Botanical Anthelmintics Used in Traditional Veterinary Practices in Sahiwal District of Punjab, Pakistan (*Journal of Ethnopharmacology*, 119: 185-190
- M. M. Ayaz, M. Akhtar, I. Hussain, F. Muhammad, A.U. Haq. 2008. Immunoglobulin producing cells in chickens immunized with egg propagated *Eimeria tenella* gametocyte vaccines. *Veterinari Medicina*, 53, 2008 (4):210-216.

- Shahid Maqsood Tabassam, Zafar Iqbal, Abdul Jabbar, Zia-ud-Din Sindhu, Amjad Iqbal Chattha. 2008. Efficacy of crude neem seed kernel extracts against natural infestation of *Sarcoptes scabiei* var. *ovis*. *Journal of Ethnopharmacology*, 115: 284–287
- Syed Muhammad Rehan Dilshad, Najeeb-ur-Rehman, Zafar Iqbal, Ghulam Muhammad, Arshad Iqbal and Nazir Ahmad. 2008. An Inventory of the Ethnoveterinary Practices for Reproductive Disorders in Cattle and Buffaloes, Sargodha district of Pakistan. *Journal of Ethnopharmacology*, 117: 393–402
- Zahid Farooq, Zafar Iqbal, Shakila Mushtaq, Ghulam Muhammad, Muhammad Zafar Iqbal and Muhammad Arshad. 2008. Ethnoveterinary Practices for the Treatment of Parasitic Diseases in Livestock in Cholistan Desert (Pakistan). *Journal of Ethnopharmacology*, 118: 213-219

Department of Pathology

Research Publications, journals and books

National

2007

- Gul, S.T., and A. Khan. 2007. Epidemiology and Epizootology of Brucellosis: A review. *Pakistan Vet. J.*, 27 (3): 145-151.
- Gul, S.T., M. Ahmad, A. Khan and I. Hussain. 2007. Haemato-biochemical findings in apparently healthy equines. *Pakistan Vet. J.*, 27 (4): 155-158.
- Ilyas, M., M.K. Saleemi, F. Mahmood and M.Z. Khan. 2007. Pathological effects of feeding cottonseed meal with and without lysine in male Japanese quails (*Coturnix japonica*). *Pakistan Vet. J.* 27 (2): 55-62.
- Shah, M. K., A. Khan, F. Rizvi, M. Siddique and Sadeeq-ur-Rehman. 2007. Effect of cypermethrin on clinico-haematological parameters in rabbits. *Pakistan Vet. J.*, 27(4): 171-175.

2008

- Anwar, M. S., M. Z Khan, I. Javed, A. Khan and M. K. Saleemi. 2008. Pathological effects of cottonseed meal with and without ferrous sulphate in male Japanese quails (*Coturnix japonica*). *Pakistan Vet. J.*, 28 (2): 51-56.
- Rizvi, F., A. D. Anjum, A. Khan, M. Mohsin and M. Shazad. 2008. Pathological and serum biochemical effects of salinomycin on layer chicks. *Pakistan Vet. J.*, 28 (2): 71-75.

International

2007

- Akhtar, M. Z., A. Khan, M. Sarwar and A. Javaid. 2007. Influence of soil and forage minerals on buffalo parturient haemoglobinuria. *Asian-Australasian Journal of Animal Sciences*, 20 (3): 393-398.
- Akhtar, M. Z., A. Khan, M. Z. Khan and G. Muhammad. 2007. Haemato-Biochemical Aspects of Parturient Haemoglobinuria in Buffalo. [Turkish Journal of Veterinary and Animal Sciences](#), 31 (2): 119-123.
- Javed, M. T., Alicia Aranaz, Lucía de Juan, Javier Bezos, Beatriz Romero, Julio Álvarez, Cristina Lozano, Ana Mateos, and Lucas Domínguez. 2007. Improvement of spoligotyping with additional spacer sequences for characterization of *Mycobacterium bovis* and *M. caprae* isolates from Spain. *Tuberculosis*, 87 (5): 437-445.
- Khan, A. and M. Z. Akhtar. 2007. Hemato-biochemical and clinico-epidemiological aspects of parturient hemoglobinuria in Nili-Ravi buffaloes. *Italian Journal of Animal Science*, 6 (Suppl.2): 953-956.
- Khan, A. and T. Zaman. 2007. Effects of rehydration solution on hematological and biochemical parameters in induced buffalo neonatal calf diarrhea. *Italian Journal of Animal Science*, 6 (Suppl.2): 957-960.
- Khan, I. A. and A. Khan. 2007. Prevalence and risk factors of bovine tuberculosis in Nili-Ravi buffaloes in the Punjab, Pakistan. *Italian Journal of Animal Science*, 6 (Suppl.2): 817-820.

Romero, B., Aranaz A., Bezos J., Álvarez J., de Juan L., Javed M.T., Mateos A., Gómez-Mampaso E., Domínguez L. 2007. Drug susceptibility of Spanish Mycobacterium tuberculosis complex isolates from animals. *Tuberculosis*, 87(6): 565-571.

2008

Hussain, I., M. Z. Khan, A. Khan, I. Javed and M. K. Saleemi. 2008. Toxicological effects of diclofenac in four avian species. *Avian Pathology*, 37 (3): 315-321.

Khan, A., I. Ali, I. Hussain and N. Ahmad. 2008. Clostridium perfringens type D Enterotoxaemia in the Chinkara Deer (*Gazella bennettii*). [Turkish Journal of Veterinary & Animal Sciences](#), 32 (3): 225-228.

Khan, M. Z., Sajjad-ul-Hassan, F. Mahmood, M. Q. Khan, G. Muhammad and I. Javed. 2008. Pthological effects of Benomyl in male Japanese quails (*Coturnix japonica*). *Acta Vet. Brno*, 77: 209-216.

FACULTY OF SCIENCES

Department of Chemistry

Research publications, journals and books

2007

Ahmad*, N., M. Asgher, M. Shafique and J.A. Qureshi. 2007. An Evidence of high Prevalence of hepatitis C Virus in Faisalabad (Pakistan). *Saudi Medical Journal*, 28:390-395. (J. Impact Factor: 0.329)

Ahmed S., A. Jabeen and A. Jamil. 2007. Xylanase from *Trichoderma harzianum*: Enzyme characterization and gene isolation. *Journal of the Chemical Society of Pakistan*, 29 (2): 176-182.

Asgher*, M., M. J. Asad, H. N. Bhatti, R.L. Legge. 2007. Hyperactivation and thermostabilization of *Phanerochaete chrysosporium* lignin peroxidase by immobilization in xerogels. *World J. Microbiol. Biotechnol.* 23: 525-531. (J. Impact Factor: 0.745).

Asgher*, M., M. J. Asad, S.U. Rahman and R.L. Legge. 2007. A thermostable α -amylase from a moderately thermophilic *Bacillus subtilis* JS-2004 for starch processing. *J. Food Engineering*, 79: 950-955. (J. Impact Factor: 1.848).

Asgher*, M., H. N. Bhatti, S.A.H. Shah, M. J. Asad and R.L. Legge. 2007. Decolorization potential of mixed microbial cultures for some reactive and disperse textile dyestuffs. *Biodegradation*, 18: 311-316. (J. Impact Factor: 1.579).

B. Sultana, Anwar, F.* and Przybylski, R. 2007. Antioxidant activity of phenolic components present in barks of *Azadirachta indica*, *Terminalia arjuna*, *Acacia nilotica*, and *Eugenia jambolana* Lam. trees. *Food Chemistry*, 104, 1106-1114.

B. Sultana, Anwar, F.* and Przybylski, R. 2007. Antioxidant potential of corncob extracts for stabilization of corn oil subjected to microwave heating, *Food Chemistry*, 104, 997-1005.

Bhatti, H.N and K. Hussain. 2007. Principles of Physical Chemistry. The Caravan Book House Lahore.

Bhatti,* H.N., M.H. Rashid, R. Nawaz, M. Asgher, R. Perveen and A. Jabbar. 2007. Optimization of media for enhanced glucoamylase production in solid state fermentation by *Fusarium solani*. *Food Technol. Biotechnol.* 45 (1): 51-5

Bhatti,* H.N., M.H. Rashid, R. Nawaz, R. Perveen, A. Jabbar, and M. Asgher. 2007. Purification and characterization of a novel glucoamylase from *Fusarium solani*. *Food Chem.* 103: 338-343.

F. Anwar*, Hussain, A.I. Iqbal, S. Bhangar, M.I. 2007. Enhancement in the oxidative stability of some vegetable oils by blending with *Moringa oleifera* oil, *Food Chemistry*, 103(4), 1181-1191.

F. Anwar*, Latif, S., Przybylski, R., Sultana, B. and Ashraf, M. 2007. Chemical composition and antioxidant activity of seeds of different cultivars of Mungbeans. *Journal of Food Science* 72(7), S503-S510.

F. Anwar* and Rashid, U. 2007. Characteristics of *Moringa oleifera* seeds and seed oil from a wild provenance of Pakistan, *Pakistan Journal of Botany*, 39(5), 1443-1453.

F. Anwar, Chatha, S.A.S. and Hussain, A.I. 2007. Assessment of oxidative deterioration of soybean oil at ambient and sunlight storage, *Grasas Y Aceites*. 58 (4), 390-395.

- F. Anwar*, Siddiq, A., Iqbal, S. and Asi, M.R. 2007. Stabilization of sunflower oil with *Moringa oleifera* leaves under ambient storage, *Journal of Food Lipids*, 14, 35-49.
- F. Anwar, Latif, S., Ashraf, M. and Gilani, A.H. 2007. *Moringa oleifera*: a food plant with multiple medicinal uses- Review Article. *Phytotherapy Research*, 21(1), 17-25.
- Hassan M. Khan and Ijaz A. Bhatti. 2007. Identification of radiation treatment of wheat (*Triticum aestivum*. L) and rice (*Oryza sativa*. L) samples using thermoluminescence of contaminating minerals, *Nucl. Sci. & Tech.*, 18, No. 1,(26-29)
- Ijaz A. Bhatti, Jeongeun Lee, Yun-Deuk Jang, Kyong-Su Kim and Joong-Ho Kwon. 2007. Analysis of shellfish by thermoluminescence and X-ray diffraction methods: Knowledge of gamma-ray treatment and mineral characterization, *Radiat. Phys. Chem.* 77, 663-668.
- Ijaz A. Bhatti, Jong-Ho Kwon and Salim Ur-Rehman. 2007. Characteristics of Pulsed photo-stimulated luminescence and thermoluminescence for the identification of gamma irradiated poultry eggs, *Nucl. Sci. & Tech.*, 18, No. 1,(20-25)
- M.A. Hanif, R. Nadeem., H. N. Bhatti,* N. R. Ahmad and T. M. Ansari. 2007. Ni (II) biosorption by *Cassia fistula* (Golden Shower) biomass. *J. Hazard. Mater. B* 139 (2): 345-355.
- M.A. Hanif, R. Nadeem., M. Nadeem Zafar, K.Akhtar and H. N. Bhatti. 2007. Kinetic studies for Ni (II) biosorption from industrial wastewater by *Cassia fistula* (Golden Shower) biomass. *J.Hazard.Mater.* 145 : 501-505.
- Khahid Mahmood Zia, Haq Nawaz Bhatti and Ijaz Ahmad Bhatti. 2007. Methods for polyurethanes and polyurethane composites, recycling and recovery: A review, *Reactive & Functional Polymers*, 67, 675-692.
- M.A. Zia, Khalil-ur-Rahman, M.K. Saeed, Fozia Andleeb, M.I. Rajoka, M.A. Sheikh, Iftikhar A. Khan and Azeem I. Khan. 2007. Thermal characterization of purified glucose oxidase from a newly *Aspergillus Niger* UAF-1. *J. Clin. Biochem. Nutr.*, 41: 132-138.
- M.Asgher, H.N. Bhatti, S.H.A. Shah and R. Legge. 2007. Decolorization potential of mixed microbial consortia for reactive and disperse textile dyestuffs. *Biodegradation* 18(3) :311-316.
- Naim, S. and A. Jamil. 2007. Production of endoglucanase from a thermophilic fungus. *Pakistan Journal of Agricultural Sciences*. 44 (1): 59-63.
- S. Ahmad, F. Anwar, Hussain, A.I. and Awan, A.R. 2007. Does soil salinity affect yield and composition of cottonseed oil? *J. Am. Oil Chem. Soc.*, 84 (9), 845-851.
- S. Latif, Anwar, F* and Ashraf, M. 2007. Characterization of enzyme-assisted cold pressed cottonseed oil, *Journal of Food Lipids*, 14, 424-436.
- S.Iqbal, Bhangar, M.I. and Anwar, F. 2007. Antioxidant properties and components of bran extracts from selected wheat varieties commercially available in Pakistan, *LWT-Food Sci. Technol.* 40, 361-367.
- Sohail Ahmed, Mohammad Asam Riaz, Amjad Hameed Malik & Mohammad Shahid. 2007. Effect of seed extracts of *Withania somnifera*, *Croton tiglium* and *Hygrophila auriculata* on behavior and physiology of *Odontotermes obesus* (Isoptera, Termitidae). *Biologia, Bratislava*, 62/6: 770-773.
- Ulfat, M., H. Athar, M. Ashraf, N. A. Akram and A. Jamil. 2007. Appraisal of physiological and biochemical selection criteria for evaluation of salt tolerance in canola (*Brassica napus* L.). *Pak. J. Botany*. 39 (5): 1593-1608.
- W. Mumtaz, Mukhtar, H., Anwar, F. and Nadeem, R. 2007. Extraction and characterization of essential oil of *Rosa gruss-an-tepliz*, *Asian Journal of Chemistry*, 19 (2), 949-953.

2008

- A.I. Hussain, Anwar, F.*, Sherazi, S.T.H and Przybylski, R. 2008. Chemical composition, antioxidant and antimicrobial activities of basil (*Ocimum basilicum*) essential oils depends on seasonal variations, *Food Chemistry*, 108, 986-995.
- Amin Misbah, H. N. Bhatti, and F. Perveen. 2008. Production, Partial Purification and Thermal Characterization of β -Amylase from *Fusarium solani* in Solid-State Fermentation. *J. Chem. Soc. Pakistan*. 30: 480-485(In Press)
- Asgher*, M., S.A. H. Shah, S. Kausar, H.N. Bhatti and M. Ali. 2008. Optimization of medium for decolorization of Solar Golden Yellow R direct textile dye by *Schizophyllum commune* IBL-06. *Intl. Biodet. Biodeg.* 61:189-193. (J. Impact Factor: 1.233).
- B. Sultana and Anwar, F*. 2008. Flavonols (kaempferol, quercetin, myricetin) contents of some selected fruits, vegetables and medicinal plants, *Food Chemistry*, 108,879-884.

- B. Sultana, Anwar, F.* and Iqbal, S. 2008. Effect of different cooking methods on the antioxidant activity of some vegetables from Pakistan *Int. J. Food Sci. Tech.* 43(3), 560-567.
- B. Sultana, Anwar, F.*, Asi, M.R and Chatha, S.A.S. 2008. Antioxidant potential of extracts from different agro wastes: stabilization of corn oil, *Grasas Y Aceites*, 59(3): 203-215.
- Bhatti, H.N. 2008. Test Your Chemistry. The Caravan Book House Lahore.
- Bhatti, H.N. and B.A. Nasir. 2008. Modern Inorganic Chemistry. The Caravan Book House Lahore.
- F. Anwar*, Naseer, R., Bhanger, M.I., Ashraf, S., Talpur, F.N., Aladedunye, F.A. 2008. Physico-chemical characteristics of citrus seeds and seed oil from Pakistan, *J. Am. Oil Chem. Soc.*, 85, 321-330.
- F. Anwar, Przybylski, R., Rudzinska, M., Gruczynska, E., and Bain, J. 2008. Fatty acids, tocopherols and sterols profiles of seed lipids of selected Canadian prairie fruits. *J. Am. Oil Chem. Soc.* (Article in Press, DOI 10.1007/s11746-008-1276-0).
- G.Shabbir, Afzal,M., Anwar,F., Tahseen, R., and Khalid, Z.M. 2008. Biodegradation of kerosene in soil by a mixed bacterial culture under different nutrient conditions, *International Biodeterioration & Biodegradation*, 61, 161-166.
- Hasan M. Khan and Ijaz A. Bhatti. 2008. Thermoluminescence method for detection of irradiated black pepper, *J. Chem. Soc. Pak.* 30, 512 – 516
- Ijaz A. Bhatti, Byeong Keun Kim, Mi-Yeung Kim, Jeongeun Lee, Hyun-Ku Kim, Joong Ho-Kwon. 2008. The screening and and /or identification of different types of irradiated eggs by analyzing pulsed photo-stimulated luminescence and thermoluminescence, *Food Control*, 19, 587–591.
- Iram Shaheen, Haq Nawaz Bhatti and Tallat Ashraf. 2008. Production, purification and thermal characterization of invertase from a newly isolated *Fusarium* sp. under solid-state fermentation. *Int. J. Food Sci. Technol.*, 43: 1152-1158.
- Javed Iqbal, Ijaz A. Bhatti and Shahid Adeel. 2008. Effect of UV radiation on dyeing of cotton fabric with extracts of Henna leaves, *Indian J. fiber & Textile research*, 33, 157-162.
- Javed, A., A. Jamil, S. Rezaei-Zarchi, S. M. Kalantar, M. Anvari and H. Nazem. 2008. An *in vitro* comparative study of follicle stimulating hormone (FSH) and activin A effects on the maturation of preantral follicle-enclosed oocytes from immature Syrian mice. *Iranian Biomedical Journal*. 12 (2): 85-92.
- K. M. Zia, H. N. Bhatti*, I. A. Bhatti and R. Nawaz. 2008. A pHs equation for calcium carbonate scale prediction in cooling water system. *J. Chem. Soc. Pakistan*. 30:182-185
- K. M. Zia, M. Barikani, I. A. Bhatti, M. Zuber and H. N. Bhatti. 2008. Morphological studies of polyurethane elastomers extended with α , ω - alkane diols. *Iran Polym. J.* 17 (1): 61-72.
- K. M. Zia, M. Barikani, I. A. Bhatti, M. Zuber and H. N. Bhatti. 2008. Synthesis and thermo-mechanical characterization of polyurethane elastomers extended with α , ω -alkane diols. *J. Appl. Polym. Sci.*,109:1840-1849
- K. M. Zia, I. A. Bhatti , H. N. Bhatti and M. A. Sheikh. 2008. Kinetics of microbial inactivation by UV-disinfection in water treatment. *J. Chem. Soc. Pakistan*. 30: 463-467
- K. M. Zia, I.A. Bhatti, H.N.Bhatti and M. A. Sheikh. 2008. Kinetics of microbial inactivation by UV-disinfection in water treatment, *J. Chem.Soc. Pak.* 30, 463 – 467
- Khalid Mahmood Zia, Ijaz Ahmad Bhatti., Mehdi Barikani , Mohammad Zuber., Munir Ahamd Sheikh. 2008. XRD studies of chitin based polyurethane elastomers, *International Journal of Biological Macromolecules*, , 43, 136 – 141
- Khalid Mahmood Zia, Haq Nawaz. Bhatti, Ijaz Ahmad Bhatti and Rakshanda Nawaz. 2008. Equation for calcium carbonate scale prediction in cooling water system, *J. Chem. Soc. Pak.* 30 182-185
- Khalid Mahmood Zia, Mehdi barikani, , Mohammad Zuber Ijaz Ahmad Bhatti and Munir Ahamd Sheikh. 2008. Molecular engineering of chitin based polyurethane elastomers. *Carbohydrate Polymers*, 74, 149 -158.
- Khalid Mahmood Zia, Mehdi barikani, Ijaz Ahmad Bhatti, Mohammad Zuber, and Haq Nawaz Bhatti. 2008. Synthesis and characterization of novel biodegradable thermally stable chitin based polyurethane elastomers, *Journal of Applied Polymer Science*, (Accepted manuscript, in press).
- Khalid Mahmood Zia, Mehdi barikani, Mohammad Zuber, Ijaz Ahmad Bhatti and Haq Nawaz Bhatti. 2008. Morphological studies of polyurethane elastomers extended with α , ω alkane diols, *Iranian Polymer Journal*, 17, 61-72.
- Khalid Mehmoood Zia , Mehdi Barikani, Ijaz Ahmad Bhatti ,Mohammad Zubair, Haq Nawaz Bhatti. 2008. Molecular engineering and properties of chitin based shape memory polyurethane elastomers, *Carbohydrate Polymers*, doi10.1016/j.carbpol.2008.04.023

- Khalid Mehmood Zia, Ijaz Ahmad Bhatti, Mehdi Barikani, Mohammad Zuber and Islam-ud-Din. 2008. Surface characteristics of UV-irradiated polyurethane elastomers extended with α ω -alkane diols, *Applied Surface Science*, 254, 6754 – 6761.
- M.A. Hanif, R. Nadeem., M. Nadeem Zafar, H.N. Bhatti and R. Nawaz. 2008. Physico-chemical treatment of textile wastewater using natural coagulant *Cassia fistula* (Golden Shower) pods biomass. *J. Chem. Soc. Pakistan*. 30: 385-393
- M.A. Qamar., Rakhshanda Nawaz., M. Rafique Asi, Khalil-ur-Rahman, H.N. Bhatti and Kausar Parveen. 2008. Analysis of Aflatoxins in the Cereals from Hepatic Affected Areas in Faisalabad, Pakistan. *Int. J. Agric. & Biol.* 10(2): 140-144.
- M.I.Bhanger, Iqbal, S. Anwar, F., Imran, M., Akhtar, M and Zia-ul-Haq, M. 2008. Antioxidant potential of rice bran and its effects on stabilization of cookies under ambient storage, *Int. J. Food Sci. Tech.* 43, 779-786.
- Mahmood Khalid Zia, Mehdi Barikani, Ijaz Ahmad Bhatti, Mohammad Zuber, and Haq Nawaz Bhatti. 2008. Synthesis and thermo-mechanical characterization of polyurethane elastomers extended with α , ω alkane diols, *Journal of Applied Polymer Science*, 109, 1840-1849
- Mohsina Hamid, M. Yasin Ashraf, Khalil-ur-Rahman and M. Arshad. 2008. Influence of Salicylic acid seed priming on growth and some Biochemical attributes in wheat grown under saline conditions. *Pak. J. Bot.*, 40(1): 361-367.
- R. Begum, I.A. Bhatti , Sh. Adeel, K. El-Nagar and N. Ali. 2008. Influence of UV-radiation on extraction and dyeing of cotton fabric with natural anthraquinonedye from amaltas (*Cassia Fistula*), *Proceed. 5th Intl. Conf. Textile Processing: State of the art & future developments 5 (IX) 2008* 471-476, Cairo, Egypt.
- S. Latif and Anwar, F. 2008. Quality assessment of *Moringa concanensis* seed oil extracted through solvent and aqueous-enzymatic techniques. *Grasas Y Aceites*, 59 (1), 67-73.
- S. Latif, Diosady, L.L., Anwar, F. 2008. Enzyme-assisted aqueous extraction of oil and protein from canola (*Brassica napus* L.) seeds, *European Journal of Lipid Science and Technology*, (Article in Press, DOI 10.1002/ejlt.200700319).
- Saadia, M., and S. Ahmad and A. Jamil. 2008. Isolation and cloning of *cre1* gene from a filamentous fungus *Trichoderma harzianum*. *Pak. J. Botany*, 40 (1): 421-426.
- Saima Rehman, H.N. Bhatti , Z. Iqbal and U. Rashid. 2008. Essential oil composition of commercial Black Tea (*Camellia sinensis*). *Int. J. Food Sci. Technol.*, 43: 346-350
- Saiqa, Sadiq Haq Nawaz Bhatti, Muhammad, Asif Hanif, Muhammad, Asif Ali, Ata-ur-Rehman. 2008. Studies on chemical composition and nutritive evaluation of wild edible mushrooms. *Iran J. Cem. Chem. Eng.* (Article in Press)
- Saleem, F., S. Ahmed and A. Jamil. 2008. Isolation of a xylan degrading gene from genomic DNA library of a thermophilic fungus *Chaetomium thermophile* ATCC 28076. *Pak. J. Bot.* 40 (3): 1225-1230.
- Saunia Hamid, Haq Nawaz Bhatti and Uzma Abdul Qayyum. 2008. Enhanced production of exopectinase from *Fusarium solani*. *Asian J Chem.* 20: 4272-4281.
- Sh. Adeel, I. A. Bhatti and R. M. El-Shishtawy. 2008. Effect of UV-Radiation on the Extraction and Dyeing of Cotton with Turmeric (*Curcuma Longa* L.) , *Proceed. 5th Intl. Conf. Textile Processing: State of the art & future developments 5 (IX) 2008* 417-422, Cairo, Egypt.
- U.Rashid and Anwar, F. 2008. Optimization of alkaline-catalyzed transesterification of rapeseed oil for production of biodiesel, *Fuel* 87, 265-273.
- U. Rashid and F. Anwar. 2008. Production of biodiesel through base-catalyzed transesterification of safflower oil using optimized protocol, *Energy and Fuel* 22, 1306-1322.
- U.Rashid, Anwar, F*, Masore, B.R. and Knothe, G. 2008. *Moringa oleifera* oil: A possible source of biodiesel. *Bioresource Technology* 99, 8175-8179.
- U.Rashid, Anwar, F., Moser, B.R. and Ashraf, S. 2008. Production of sunflower oil methyl esters by optimized alkali-catalyzed methanolysis, *Biomass and Bioenergy* Article in Press doi:10.1016/j.biombioe.2008.03.001.
- Z. Iqbal, H. N. Bhatti and M. Naeem. 2008. Intraspecies Variations in Contents and Composition of Essential Oil from the Leaves of *Eucalyptus camaldulensis* Trees. *J. Chem. Soc. Pakistan*. 30: 468-471

Department of Computer Science

Research Publications, Journals and Books:

Mustafa, T. 2008. Software cost relationship through entity relationship model in environment of Pakistan, World Scientific and Engineering Academy and Society.

Department of Physic

National

2007

Jamil, Y., M. Raza and N.M. Shaikh. 2007. Efficient solar energy conversion in a low cost flat plate solar cooker Faisalabad for use in Rural areas of the South Asian countries. Mehran University Research journal of Engineering & Technology , 27(2):198-203.

2008

Ahmad, M.R., Y. Jamil, Zia ul Haq and N. Amin. 2008. An efficient portable and fast response digital humidity meter for use in the preservation of agricultural food products. Pak. J. Agri. Sci., 45(1):1-5

Jamil, Y., N. Amin, M. R. Ahmad, Z. Haq A. Hussain. 2008. Qualitative analysis of suspended particulate matter in the environment of an industrial and a non industrial city of Pakistan. Soil and Environ. 27(1):83-86

M.Y. Hussain, Islam-ud-Din and M. Anwar. 2008. Dehydration of Agricultural Products by Mixed Mode Solar Dehydrator. International Journal of Agriculture and Biology, 10:336-6.

M.Y. Hussain, Islam-ud-Din Shahzad, M. Yousaf and M. Imran. 2008. Investigating indoor suspended particulate matter as source of air pollution in residential, commercial and industrial areas of Faisalabad city. Pakistan Journal of Agricultural Sciences, UAF Accepted for Publication.

M.Y. Hussain, Islam-ud-Din, M. Yousaf, M. Imran. 2008. Characterization and Quantification of mineral phases in the soil of metropolitan Faisalabad causing air pollution. Soil and Environment. (Accepted for Publication, Vol. 27, No. 1).

M.Y. Hussain, Zia-ul-Haq, Islam-ud-Din and M. Anwar. 2008. Measurement of the extent of noise pollution and its implications for human health. Pakistan Journal of Agricultural Sciences, UAF Accepted for Publication.

M.Y. Hussain, Islam-ud-Din, M. Yousaf and M. Imran. 2008. A Pollutant of Environment: Qualification, Quantification and Characterization of Air Borne Particulates. Pakistan Journal of Agricultural Sciences, UAF Accepted for Publication.

International

2007

Mohammed Ahmed Ali, Elias B. Saion, Muhamad Yousuf, Anuar Kassim, Khirulzaman, Mohd Dahloan, Kahlid Ahmed Majali, S. Hashim, Noorhana Yaha, H. Haron. 2007. Conducting Polyaniline Nanocomposites Synthesized By Gamma Radiation Doping in Polyvinyl-Alcohol Matrix. Smart Materials and structures. (Accepted for publication, 2007, Ref: SMS/263065/PAP/182024).

2008

K.A. Rabaeh, Elias Saion, M.Omer, Iskandar Shahrin, Azhar A. Alrahman, M. Hussain. 2008. 2008, doi: 10.1016/j.radmeas. 2008.04.083).Mohd Hamzah Harun, Elias Saion, Anuar Kassim, Ekramul Mahmud, Muhd Yousuf Hussain, and Iskandar Shahrin Mustafa. (2008). Dielectric Properties of Poly (vinylalcohol)/Polypyrrole Composite Polymer Films. JOURNAL FOR THE ADVANCEMENT OF SCIENCE & ARTS, VOL. 1 NO. 1: 1-4.

Nasir Amin, Shaukat M. , S. Haq, M.A. Kalyar, M. Rafiq and M.A. Baig. 2008. Photoionization cross section measurements from 4p, 5d and 7 s excited states of potassium. Journal of quantitative spectroscopy radioactive transfer, vol. 109, PP 863-872.

Department of Social Science and Humanities

Research Publications Nil

Department of Zoology and Fisheries

International

2007

Mehmood-ul-Hassan, M., M. A. Beg, M. Mushtaq-ul-Hassan and S. A. Rana. 2007. Food habits of the spotted owl *Athene brama* in central Punjab, Pakistan. Act. Zool. Sin., 53 (1): 64-68.

Mehmood-ul-Hassan, M., M. A. Beg, M. Mushtaq-ul-Hassan and S. A. Rana. 2007. Nesting and breeding habits of the spotted owl *Athene brama* in Punjab, Pakistan. J. Raptor Res., 41 (1): 50-52.

National

2007

Abdullah, S., M. Javed and A. Javed. 2007. Studies on acute toxicity of metals to the fish (*Labeo rohita*). Int. J. Agri. Biol. 9(2): 333-337.

Ali, H., S. A. Hassan, S. A. Rana, M. A. Beg and M. Mehmood-ul-Hassan. 2007. Brood parasitism of asian koel (*Eudynamys scolopacea*) on the house crow (*Corvus splendens*) in Pothwar region of Pakistan. Pak. J. Agri. Sci., 44(4): 627-634.

Fatima, S and S. A. Rana. 2007. Morphometric variations in earthworm species collected from post harvest wheat fields of Jaranwala (Pakistan). Biologia Pak., 53 (1): 59-65.

Gul Y., M, Saleem and B. Rabbani. 2007. Evaluation of apparent digestibility coefficients of different dietary protein levels with and without fish meal for *Labeo rohita*. Pak. Vet. J. 27(3): 121-125.

Hassan, M. Z. Y., B. Ali, M. Z. Iqbal and N. Rana. 2007. Demographic characteristics of rural women in the Punjab, Pakistan. Life Sciences International J., 1 (3): 299-307.

Hayat, S., M. Javed and S. Razzaq. 2007. Growth performance of metal stressed major carps viz. *Catla catla*, *Labeo rohita* and *Cirrhina mrigala* reared under semi-intensive culture system. Pak. Vet. J. 27(1): 8-12.

Javid A., M. Javed, S. Abdullah and Z. Ali. 2007. Bio-accumulation of lead in the bodies of major carps viz. *Catla catla*, *Labeo rohita* and *Cirrhina mrigala* during 96-h LC₅₀ exposures. Int. J. Agri. & Biol. 9(6): 909-912.

Javid, A., M. Javed and S. Abdullah. 2007. Nickel bio-accumulation in the bodies of *Catla catla*, *Labeo rohita* and *Cirrhina mrigala* during 96-h LC₅₀ exposures. Int. J. Agri. Biol. 9 (1) : 139-142.

Mateen., A. and I. Ahmed. 2007. Effect of androgen on sex reversal and growth of Nile Tilapia (*Oreochromis niloticus*). Pak. J. Agri. Sci., 44(2): 272-276.

Noreen S., M. Saleem, M. Zahra and Y. Gul. 2007. Effect of soybean meal, maiz gluten 30% and feather meal on the growth performance and feed conversion ratio of hybrid (*Labeo rohita* x *Catla catla*) finger lings. Pak. Vet. J. 27 (4): 167-170.

Parveen, R., A. A. Khan, S. Mushtaq and S. A. Rana. 2007. A checklist of the spiders of the Punjab. Pak. J. Agri. Sci., 44(4): 625-626.

Rauf, A. and M. Javed. 2007. Copper-toxicity of water and plankton in the river Ravi, Pakistan, Int. J. Agri. Biol. 9(5): 771-774.

S. A. Rana., A. Nadeem, N. Rana, T. Ruby and S, Naz. 2007. Effect of methyl parathion on earthworms of some citrus orchard. Biologia Pak., 53 (2): 129-137.

Saghir, A., M. Asif, M. Z. Y. Hassan, B. Ali and N. Rana. 2007. Gender participation in educational activities in Faisalabad (Punjab). Life Sciences International J., 1(3): 317-323.

2008

- Gill, A. H., M. A. Beg and S. A. Rana. 2008. Importance of SCARP evaporation ponds as aquatic bird habitat. *Int. J. Agri. & Biol.*, 10(6): 100-104.
- Parveen, R., A. A. Khan, S. Mushtaq, S. A. Rana and Z. Ahmad. 2008. A new species of the genus *Thomisus* Walckenaer, 1805 from Punjab, Pakistan (*Araneae, Thomisidae*). *Pak. J. Agri. Sci.*, 45(2): 601-602.

FACULTY OF AGRI. ENGINEERING & TECHNOLOGY

Department of Farm Machinery & Power

Research Publications, journals and books

2007

- Iqbal, M., Kh. Altaf Hussain, M. Ahmad, and M. Iqbal. 2007. Marketing and Economic Analysis of University Boom Sprayer. *Pakistan Journal of Agricultural Sciences*, University of Agriculture, Faisalabad, ISSN 0552-9034, 44(1):154-158.
- Iqbal, M. Kh. Altaf Hussain, Matloob Ahmad, Manzoor Ahmad, M. Iqbal, and M. Ali. 2007. *Pakistan Journal of Agricultural Sciences*, University of Agriculture, Faisalabad, ISSN 0552-9034, 44(1):144-167
- Sabir, M.S., Altaf Hussain, and Azam Khan. 2007. Development of Interceptor Channel and Laterals to control water logging/soil salinity at farm field (Mechanical Amendment). Department of Farm Machinery & Power, UAF, Pakistan. Proceedings of the International Conference on Environmental Survival and Sustainability 19-24 February 2007, Near East University, Nicosia-Northern, Cyprus, Organized by Near East University.

Department of Structures and Environmental Engineering

2007

- Sial, J.K., Khawaja A. Hussain, and A. Shafi. 2007. Fuel Efficiency of Urban Wagons. *Scientific Khyber – A Biannual Journal of Science and Technology*, University of Peshawar, Pakistan. (Accepted for publication).

Department of Fibre Technology

2007

- Nawaz, S.M. 2007. Study of tensile behaviour of hollow core yarn composite structure. Proc. International Conference of Fibre Reinforced Composites. Port Elizabeth, South Africa, 9-12 December 2007.

2008

- Ahmad, S., I. Ahmad and S. Baig. 2008. The effect of nipper gauge and drafting zone gauge at the combing machine on yarn quality parameters. *J. Qual. Tech. Management* 4(1):21-32
- Jamil, N.A., B. Shahbaz and I. Ali. 2008. Impact of cotton fibre characteristics on knitted fabric barre and some other quality parameters. Proc. 5th International Conference of the Textile Research Division. National Textile Center, Cairo Egypt. 6-8 April, 2008.
- Mahmood, N., N.A. Jamil, I. Ahmed and M. Ahmed. 2008. Enhancing the single jersey knitted fabric quality by preventing the barre caused by yarn parameters *Pak. J. Agri. Sci.* 44(4): 689-694.
- Nawaz, S.M. 2008. Study on cottonized jute composites structures spun at ring and air jet systems. Proc. FAO International Conference on Flax and other Bast Fibre Plants, Saskatoon, Canada, 20-24 July, 2008.

Nawaz, S.M., B. Shahbaz, M.Q. Tosief and M. Rashid. 2008. Effect of multi source direct dye application and important process variables on the tensile strength (warp wise & fill wise) of the denim fabric. *J. Chem. Soc. Pak.* 30(1):38-41

FACULTY OF AGRICULTURAL ECONOMICS & RURAL SOCIOLOGY

Department of Agricultural Economics

Research papers published

2007

- Abedullah, S. Kousar and K. Mushtaq. 2007. Analysis of Technical efficiency of rice production in Punjab (Pakistan): Implications for future investment strategies. *Pak. Econ. Soc. Rev.* 45(2): 231-244.
- Adil, S.A., M.W.A. Chattha, K. Bukhsh and S. Hassan. 2007. Profitability analysis of summer vegetables by farm size. *Pak. J. Agric. Sci.* 44(1): 184.
- Adil, S.A., M.W.A. Chattha, S. Hassan and A. Maqbool. 2007. Economics of vegetable production by farm locations. *Pak. J. Agric. Sci.* 44(1): 179.
- Badar, H., A. Ghafoor and S.A. Adil. 2007. Factors affecting agricultural productions of Punjab, Pakistan. *Pak. J. Agric. Sci.* 44(3): 506.
- Bashir, M.K., Z.A. Gill, S. Hassan, S.A. Adil and K. Bukhsh. 2007. Impact of credit by commercial banks on the productivity of sugarcane in Faisalabad district. *Pak. J. Agric. Sci.* 44(2): 361.
- Fatima, A., M.S. Javed, S. Hassan and S. Sehar. 2007. Globalization of agriculture and its impact on rice-wheat system in Pakistan. *Pak. J. Agric. Sci.* 44(4):
- Mushtaq K., A. Gafoor and Abedullah. 2007. An examination of calorie demand relationship in Pakistan. *Pak. J. Nut.* 6(2): 159-162.
- Mushtaq K., F. Abbas and Abedullah. 2007. Government intervention and market integration in prominent wheat markets of Pakistan. *Pak. J. Agric. Sci.* 44(2): 356-360.
- Mushtaq K., F. Abbas and Abedullah. 2007. Testing the law of one price: cotton market integration in Pakistan's Punjab. *Pak. J. Agri. Sci.* 44(2): 364-369.
- Shafique, M., M.S. Javed, B. Ahmad and K. Mushtaq. 2007. Price and nonprime factors affecting acreage response of wheat in different agro ecological zones in Punjab: A co-integration analysis. *Pak. J. Agri. Sci.* 44(2): 370-377.
- Sheikh, A.D. and A. Abbas. 2007. Barriers in efficient crop management in rice-wheat cropping system of Punjab. *Pak. J. Agric. Sci.* 44(2):
- Shafique, M., M.S. Javed, B. Ahmad and K. Mushtaq. 2007. Price and non price factors affecting acreage response of wheat in different agro-ecological zones in Punjab, A co-integration analysis. *Pak. J. Agric. Sci.* 44(2):
- Tahir, M.A., M.A Qudus, M.S. Sardar and M. Ashfaq. 2007. Economics of zero tillage technology of wheat in rice-wheat cropping system of Punjab. *Pak. J. Animal Plant Sci.* 17(3-4).

2008

- Mushtaq K., A. Gafoor and M. Dad. 2008. Apple market integration: Implications for sustainable agricultural development. *The Lahore J. Econ.* 13(1): 129-138.

Papers published in proceedings

2007

- Bashir, M.K., Z. Nawaz, K. Bakhsha, A. Maqbool and M.W.A. Chattha. 2007. Food security perspectives of Pakistan. *Proc. Int. Con. on "Productivity and Growth in Agriculture: Strategies and Interventions"*. 6-7 December, 2006, University of Agriculture, Faisalabad.
- Maqbool, A., K. Bakhsh, M.K. Bashir, M.W.A. Chattha and Z. Nawaz. 2007. WTO and Agriculture Sector of Pakistan. *Proc. Int. Con. on "Productivity and Growth in Agriculture: Strategies and Interventions"*. 6-7 December, 2006, University of Agriculture, Faisalabad.
- Sehar, S., M.S. Javed, S. Hassan and A. Fatima. 2007. Globalization of agriculture and its impact on cotton-wheat system in Pakistan. *Proc. Int. Con. on "Productivity and Growth in Agriculture: Strategies and Interventions"*. 6-7 December, 2006, University of Agriculture, Faisalabad.

Department of Development Economics

Research papers published

2007

- Ahmad, T. and Z.A. Gill. 2007. Role of agricultural credit and efficiency of commercial banks in Pakistan. *Int. J. Agric. Biol.*
- Bashir, M.K., Z.A. Gill, S. Hassan, K. Bakhsh and S.A. Adil. 2007. Impact of credit disbursed by commercial banks on the productivity of sugarcane in Faisalabad district. *Pak. J. Agric. Sci.* 44(2).
- Ahmad, T. and Z.A. Gill. 2007. An analysis of technical efficiency of growing bitter melon in Pakistani Punjab. *Pak. J. Agric. Sci.* 44(2): 350-355.
- Naeem, M.K., M.K. Bashir, B. Hussain and M. Abbas. 2007. Assessment of profitability of sugarcane crop in Faisalabad district. *Pak. J. Life Soc. Sci.* 4(1-2): 2007.
- Bakhsh, K., B. Ahmad, Z.A. Gill, S. Hassan and S.A. Adil. 2007. Determinant of radish yield: A case study of Punjab, Pakistan. *Pak. J. Agric. Sci.* 43(3-4).

Department of Environmental and Resource Economics

Research papers published

2007

- Abedullah, A. Maqbool and K. Bakhsh. 2007. Issues and economics of poultry production: A case study of Faisalabad, Pakistan. *Pak. Vet. J.* 27(1):
- Abedullah, S. Kousar and K. Mushtaq. 2007. Analysis of technical efficiency of rice production in Punjab, Pakistan: Implications for future investment strategies. *Pak. Econ. Soc. Rev.* 45(2): 261-274.
- Adil, S.A., M.W.A. Chattha, K. Bakhsh and S. Hassan. 2007. Profitability analysis of summer vegetables by farm size. *Pak. J. Agric. Sci.* 44(1): 184-188.
- Bakhsh, K., B. Ahmad, S. Hassan and Z.A. Gill. 2007. An analysis of technical efficiency of growing bitter melon in Pakistani Punjab. *Pak. J. Agric. Sci.* 44(2): 350-355.
- Bashir, M.K., Z.A. Gill, S. Hassan, S.A. Adil and K. Bakhsh. 2007. Impact of micro-credit disbursed by commercial banks on the productivity of sugarcane in Faisalabad district. *Pak. J. Agric. Sci.* 44(2): 356-360.
- Mushtaq, K., A. Gahfoor and Abedullah. 2007. An examination of calorie demand relationship in Pakistan. *Pak. J. Nut.* 6(2): 159-162.
- Mushtaq, K., F. Abbas and Abedullah. 2007. Government intervention and market integration in prominent wheat markets of Pakistan. *Pak. J. Agric. Sci.* 44(2):
- Mushtaq, K; F. Abbas and Abedullah. 2007. Testing the law of one price: Cotton market integration in Pakistans' Punjab. *Pak. J. Agric. Sci.* 44(2):
- Sehar, S., M.S. Javed, S. Hassan and A. Fatima. 2007. Globalization of agriculture and its impact on cotton-wheat system in Pakistan. *Proc. Int. Conf. on "Productivity and Growth in Agriculture: Strategies and Interventions"*. 6-7 December 2006, University of Agriculture, Faisalabad.
- Sehar. S., M.S. Javed, S. Hassan and A. Fatima. 2007. Globalization of agriculture and its impact on rice-wheat system in Pakistan. *Pak. J. Agric. Sci.* 44(4):

Department of Marketing & Agribusiness

Research papers published

2007

- Badar, H. 2007. The state of agriculture research and development in Pakistan. *Pak. Gulf Econo.* 26(51): 39.
- Badar, H. and Q. Mohy-ud-Din. 2007. An analysis of domestic support to agriculture sector in Pakistan under WTO regime. *Pak. J. Agric. Sci.* 44(4):

- Badar, H. and Q. Mohy-ud-Din. 2007. Punjab's agriculture under WTO regime. Pak. Gulf Econo. 26(38): 25-26.
- Badar, H., A. Ghafoor and S.A. Adil. 2007. Factors affecting agricultural production of Punjab (Pakistan). Pak. J. Agric. Sci. 44 (3):
- Moazzam, M. and A. Ghafoor. 2007. Improving agricultural marketing. The daily Dawn. March 19, 2007.
- Mustafa, K. *et al.* 2007. A forecasting model for export of rice from Pakistan. J. Human. Soc. Sci. 15(2): 87-94.
- Mustafa, K. *et al.* 2007. Resource degradation and environmental concerns in Pakistan's Agriculture. Sarhad J. Agric. 23(4): 1159-1168.
- Naeem, A. and K. Mustafa. 2007. European Union's external trade regime: A comparative export performance of Pakistan. J. Soc. Sci. Human. 15(1): 15-38.

2008

- Badar, H. and K. Mustafa. 2008. "The Role of middlemen in agricultural marketing: Myths and reality. Pak. Gulf Econ. 27(26): 23.
- Badar, H. and K. Mustafa. 2008. Paradigm improvements in agricultural marketing system. Pak. Gulf Econo. 22(19): 45.

Department of Rural Sociology

Research papers published

2007

- Ahmad, A.M. 2007. Gender roles in livestock management and their implication for poverty reduction in rural Toba Tek Singh, Punjab–Pakistan.
- Ahmad, A.M. and K. Asghar. 2007. Social and economic aspects of the crop-livestock based communities in salt affected areas of Punjab. Proceeding of Seminar on "Technology Transfer", Sept. 8, 2007.
- Aziz, Z. and B. Azam. 2007. Impact assessment of wife battering on their reproductive health in rural areas of district Faisalabad. Sci. Int. 19(4): 313-317.

DIVISION OF EDUCATION & EXTENSION

Department of Continuing Education

Research papers published

2007

- Khan, A.S., M. Ashfaq and M. Afzal. 2007. Description of the new species of genus, *Amblyseius* from Pakistan. Pak. Entomol. 29(2):
- Khan, M.A.J., T.E. Lodhi, I. Ashraf and G.A. Khan. 2007. An assessment of technical competencies (Agronomic Practices) needed by Agri. Offices in the Punjab, Pakistan. Pak. J. Agric. Sci. 44(2): 381-383.
- Randhawa, M.A., M.A.J. Khan and N. Hussain. 2007. Studies into the effect of plant placing on quality and yield of maize crop. Int. J. Agric. Biol. 8(4): 370-372.

2008

- Khan, M.A.J., T.E. Ladhi and M.I Khan. 2008. Training need of Agriculture Offices regarding mechanized farming in Punjab, Pak. Sarhad J. Agric. (Accepted)
- Lodhi, T.E., M.A.J. Khan, M.A. Randhawa and Q.H. Haq. 2008. Small loans effects on crop production: Farmers' experience with SMEDA. Pak. J. of Agric. Sci. (Submitted)

Randhawa, M.A., M.A.J. Khan, T.E. Lahdhi and N. Hussain. 2008. Influence of *Trianthema portulacastrum* infestation and plant spacing on the quality of maize grain. Int. J. Agric. Biol. (Accepted)

Department of Agri. Extension

Research papers published

2007

- Afzal, I., S.M.A. Basra, N. Ahmad and T.E. Lodhi. 2007. Counteraction of salinity stress on wheat plants by pre-sowing treatments. Pak. J. Agric. Sci. 44(1): 50-58.
- Afzal, I., S.M.A. Basra, T.E. Lodhi and S.J. Butt. 2007. Improving germination and seedling vigour in wheat by halopriming under saline conditions. Pak. J. Agric. Sci. 44(1): 40-49.
- Akhtar, A., M. Ahmad, T. Ali and M.I. Zafar. 2007. Vegetable growers' awareness about health safety measures and pesticide use in Punjab, Pakistan. Pak. J. Agric. Sci. 44(3): 489-492.
- Akhtar, A., M. Ahmad, T. Ali, M.I. Zafar and A. Shafi. 2007. Training needs of vegetable growers regarding pest management for sustainable environmental health in the Punjab, Pakistan. Pak. J. Agric. Sci. 44(4): 635-640.
- Ali, T., M. Ahmad, B. Shahbaz and A. Suleri. 2007. Impact of participatory forest management on vulnerability and livelihood assets of forest dependent communities in Northern Pakistan. Int. J. Sus. Dev. World Eco. 14(2): 211-223.
- Ali, T., M. Ahmad, B. Shahbaz and A. Suleri. 2007. Impact of participatory forest management on financial assets of rural communities in Northern Pakistan. Ecol. Econ. 63: 588-593.
- Ashraf, I., S. Muhammad and K.M. Chaudhry. 2007. Effect of decentralization on linkages among research, extension and farming community. Pak. J. Agric. Sci. 44(4): 660-663.
- Aslam, M., T. Ali, M.I. Zafar and M. Ahmad. 2007. Training needs of fruit growers regarding pesticide use for sustainable environmental health in Punjab, Pakistan. Pak. J. Agric. Sci. 44(3): 511-517.
- Farooq, S., S. Muhammad, K.M. Chaudhary and I. Ashraf. 2007. Role of print media in the dissemination of agricultural information among farmers. Pak. J. Agric. Sci. 44(2): 378-380.
- Haq, Q.U., T. Ali, M. Ahmad and I.A. Faridi. 2007. Conceptual analysis of cotton growing community about pesticides: A case study of district Multan. Pak. J. Agric. Sci. 44(3): 498-502.
- Hassan, M.Z.Y., T. Ali and M. Ahmad. 2007. Determination of participation in agricultural activities and access to sources of information by gender: A case study of district Muzaffargarh. Pak. J. Agric. Sci. 44(4):
- Iftikhar, M., T. Ali, M. Ahmad and A.A. Mann. 2007. Training needs assessment of cotton growers to meet the challenges of WTO by maintaining cotton quality in the Punjab, Pakistan. Pak. J. Agric. Sci. 44(4):
- Iqbal, M.Z., T. Ali, M. Ahmad and S.R.S. Abbasi. 2007. Evaluation of in-service agricultural training institutes in Punjab, Pakistan. Pak. J. Agric. Sci. 44(3): 518-523.
- Khan, M.A.J., T.E. Lodhi, I. Ashraf and G.A. Khan. 2007. An assessment of technical competencies (agronomy practices) needed by agricultural officers in the Punjab, Pakistan. Pak. J. Agric. Sci. 44(2): 381-383.
- Saifullah, M., S. Muhammad and T.E. Lodhi. 2007. Communication gap regarding the plant protection, harvesting and post-harvest technology among the mango growers. Pak. J. Agric. Sci. 44(4): 654-659.
- Saifullah, M., S. Muhammad and T.E. Lodhi. 2007. Communication gap regarding mango production technology among the farmers of tehsil Muzaffargarh. Pak. J. Agric. Sci. 44(4): 670-673.
- Siddiqui, B.N., S. Muhammad and I. Ashraf. 2007. Awareness of plant protection measures and their adoption by apple growers in Balochistan, Pakistan. Pak. J. Agric. Sci. 44(3): 503-505.

Department of Rural Home Economics

Research papers published

2007

- Abbas, N. and B. Israr. 2007. Diet and meal planning fundamental of food and nutrition.

2008

- Ilyas, M., A.H. Gilani and N. Bhatti. 2008. Physical, aesthetic and microbiological analysis of drinking water for school children. Pak. J. Sci. Pak. J. Sci. Res.
- Ilyas, M., A.H. Gilani and N. Bhatti. 2008. Study of chemical quality of drinking water available to the children of different schools of Ghulam Muhammad Abad, Faisalabad, Pakistan. Pak. J. Sci.

WATER MANAGEMENT RESEARCH CENTRE

Research papers published

2008

- Ahmad, N., M. Arshad, A. Waqas and M.A. Shahid. 2008. Assessment of water balance and future trends of groundwater in Sahiwal division. Submitted for International Symposium on Modern Approaches and Techniques in Agriculture to ensure Food Security in Pakistan. To be held at University of Agriculture, Faisalabad on Oct. 13-14.
- Ahmad, N., M. Arshad, A. Waqas and M.A. Shahid. 2008. Impact assessment of increasing groundwater exploitation in Bari doab—A case study of Okara division. Accepted for 20th International Congress on Irrigation and Drainage. To be held at WAPDA House, Lahore on Oct. 13-19.
- Akhtar, B. and N. Ahmad. 2008. Enhancing productivity of wheat and sugarcane by intercropping sugarcane in furrows with wheat on raised beds. Submitted for International Symposium on Modern Approaches and Techniques in Agriculture to ensure Food Security in Pakistan. To be held at University of Agriculture, Faisalabad on Oct. 13-14.
- Mahmood, N., N. Ahmad, B. Akhtar and U.D. Khan. 2008. Vegetables productivity on raised beds with mulching under tunnel farming. Submitted for International Symposium on Modern Approaches and Techniques in Agriculture to ensure Food Security in Pakistan. To be held at University of Agriculture, Faisalabad on Oct. 13-14.
- Saleem, M., N. Ahmad and M.A. Shahid. 2008. Evaluation of raised bed planting of wheat with variable furrow size for water saving. Submitted for International Symposium on Modern Approaches and Techniques in Agriculture to ensure Food Security in Pakistan. To be held at University of Agriculture, Faisalabad on Oct. 13-14.

DIRECTORATE OF RESEARCH

Research papers published

2007

- Rauf, S., T. Manzoor, A. Naveed and H. Munir. 2007. Modified path to high lint yield in upland cotton (*Gossypium hirsutum* L.) under two temperature regimes. Turk. J. Biol. 31: 119-126.

2008

- Atiq, M., M.A. Khan, S.T. Sahi and A. Rashid. 2008. Characterization of environmental conditions conducive for citrus canker disease development. Pak. J. Phytopathol. (Submitted)
- Iftikhar, Y., M.A. Khan, A. Rashid and B. Fatima. 2008. Monitoring of citrus tristeza virus (CTV) in Punjab and NWFP through ELISA. Pak. J. Phytopathol. (Submitted)
- Mukhtar, T., A. Rashid, Z. Kiani and M. Ashfaq. 2008. Interactions of *Azadirachta indica* and *Calotropis procera* leaf extracts with *Verticillium chlamydosporium* in the control of *Meloidogyne javanica*. Int. J. Nematol. 18(1):
- Rauf, S., H.A. Sadaqat and A. Naveed. 2008. Effect of moisture on combining ability variation for bird resistance traits in sunflower (*Helianthus annuus* L.). Pak. J. Bot. 40(3): 1319-1328.

NATIONAL INSTITUTE OF FOOD SCIENCES & TECHNOLOGY

Research papers published

2007

- Akhtar, S. and F.M. Anjum. 2007. Sensory characteristics of whole wheat mineral fortified chapattis. Pak. J. Nutr. 6(6): 681-686.
- Ali, Z., F.M. Anjum and T. Zahoor. 2007. Sensory characteristics of bread prepared from lactic acid obtained from corn cobs, an agricultural waste. Pak. J. Agric. Sci. 44(3): 539-546.
- Anjum, F.M. and S. Hussain. 2007. Flaxseed (Linseed) a valuable grain: A review. Food Aust. 59(12): 597-599.
- Anjum, F.M., I. Pasha, M.A. Bugti and M.S. Butt. 2007. Mineral composition of different rice varieties and their milling fractions. Pak. J. Agric. Sci. 44(2): 332-336.
- Anjum, F.M., M.R. Khan, A. Din, M. Saeed, I. Pasha and M.U. Arshad. 2007. Wheat gluten: High molecular weight glutenin subunits-structure, genetics and relation to dough elasticity. J. Food Sci. 72(3): 564-572.
- Asghar, A., F.M. Anjum, M.S. Butt, M.W. Tariq and S. Hussain. 2007. Rheological and storage study of hydrophilic gums on the quality of frozen dough pizza. Food Sci. Technol. Res. 13(2): 96-102.
- Bhatti, I.A, J.H. Kwon and S. Rehman. 2007. Characteristics of pulsed photo-stimulated luminescence and thermo luminescence for the identification of gamma irradiated poultry eggs. Nucl Sci. Technol. 18(1): 20-25.
- Butt, M.S., M.U. Arshad, M.S. Alam and M.T Nadeem. 2007. Bioavailability and storage stability of vitamin A fortificant (Retinyl acetate) in fortified cookies. Food Res. Int. 40(10): 1212-1219.
- Din, G.M., S.U.R ehman, F.M. Anjum and H. Nawaz. 2007. Quality of flat bread (Naan) from Pakistani wheat varieties. Pak. J. Agric. Sci. 44: 171-175.
- El-Ghorab, A.H., F. Khaled, El-Massry and H.A. Shaaban. 2007. Effect of drying on the chemical composition of the Egyptian *Cupressus macrocarpa* (Hartw.ex Gordon) essential oils and their biological characteristics. J. Essential Oil Bearing Plants 10: 399-411.
- El-Ghorab, A.H., K.M. El-massry and T. Shibamo. 2007. Chemical composition of the volatile extract and antioxidant activities of the volatile and nonvolatile extracts of Egyptian corn silk (*Zea mays* L.). J. Agric. Food Chem. 55: 9124-9127.
- El-Ghorab, A.H., Ozecan and T. Shibamo. 2007. Chemical composition and antioxidant activities of buds and leaves of Capers (*Capparis Ovata* Desf. Var. *canescens*) cultivated in Turkey. J. Essential Oil Res. 7277-7287.
- Huma, N., S. Rehman, J.A. Awan, M.A. Murtaza and M.U. Arshad. 2007. Effect of package materials on the quality of iron fortified whole meal flour during storage. J. Food Proc. Preser. 31(6): 659-670.
- Nassar, M.I, H.G. Ahmed, El-Ghorab. A.R.H. Farrag, H. Shen, E. Huq and T.J. Mabry. 2007. Chemical constituents of clove (*Syzygium aromaticum*, Fam. Myrtaceae) and their antioxidant activity. Revista Latinoamericana de Química 53: 47-57.
- Pasha, I., F.M. Anjum, M.S. Butt and J.I. Sultan. 2007. Gluten quality prediction and correlation studies in spring wheats. J. Food Qual. 3(4): 438-449.
- Randhawa, M.A., F.M. Anjum, A. Ahmad, M.F. Asi, M.S. Butt, A. Ahmad and M.S. Randhawa. 2007. Removal of endosulfan residues from vegetables by household processing. J. Sci. Ind. Res. 66: 849-852.
- Rehman, S., A. Paterson and J.R. Piggott. 2007. An optimization of flours for chapatti preparation using a mixture design. J. Sci. Food Agric. 87(3): 425-430.
- Rehman, S., A. Paterson and J.R. Piggott. 2007. Chapatti quality from British wheat cultivar flours. LWT-Food Sci. Technol. 40(5): 775-784.
- Rehman, S., A. Paterson and J.R. Piggott. 2007. Physico-chemical, rheological and sensory characteristics of British commercial chapatti flours. J. Food Agric. Environ. 5(2): 35-39.
- Rehman, S., A. Paterson, S. Hussain, M.A. Murtaza and S. Mehmood. 2007. Influence of partial substitution of wheat flour with vetch (*Lathyrus sativus*) flour on quality characteristics of doughnuts. LWT-Food Sci. Technol. 40(1): 73-82.
- Rehman, S., H. Nawaz, M.M. Ahmad, S. Hussain, M.A. Murtaza and S.H. Shahid. 2007. Physico-chemical and sensory evaluation of ready to drink soy-cow milk blend. Pak. J. Nutr. 6(3): 283-285.

- Rehman, S., H. Nawaz, S. Hussain, M.M. Ahmad, M.A. Murtaza and M.S. Ahmad. 2007. Effect of sourdough bacteria on the quality and shelf life of bread. *Pak. J. Nutr.* 6(6): 562-56.
- Rehman, S., I. Babu, T. Zahoor, H. Nawaz, S. Mumtaz, I.A. Bhatti and F. Latif. 2007. Extraction of xylooligosaccharides from hard-shell almond variety (Wirin) and their utilization in cookies. *J. Food Sci. Technol.* 45(6): 527-530.
- Rehman, S., S. Hussain, H. Nawaz, M.M. Ahmad, M.A. Murtaza and A.J. Rizvi. 2007. Inhibitory effect of citrus peel essential oils on the microbial growth of bread. *Pak. J. Nutr.* 6(6): 558-561.
- Rehman, S., S. Hussain, H. Nawaz, M.M. Ahmad, N. Huma and W.A. Virk. 2007. Preparation and quality evaluation of lathyrus sativus L-bovine milk blend. *Pak. J. Nutr.* 6(2): 134-137.
- Rehman, S.U., M.M. Ahmad, Z.H. Kazmi and M.S. Raza. 2007. Physicochemical variation in essential oils of *Citrus reticulata*. *J. Food Sci. Technol.* 44(4): 353-356.

2008

- Ahmed, A., F.M. Anjum, S.U. Rehman, M.A. Randhawa and U. Farooq. 2008. Bioavailability of calcium, iron and zinc fortified whole wheat flour chapatti. *Plant Foods Human Nutr.* 63: 7-13.
- Akhtar, S., F.M. Anjum, S.U. Rehman, M.A. Sheikh and K. Farzana. 2008. Effect of fortification on physico-chemical and micro-biological stability of whole wheat flour. *Food Chem.* 110: 113-119.
- Anjum, F.M., I. Ahmad, M.S. Butt, M.U. Arshad and I. Pasha. 2008. Improvement in end-use quality of spring wheat varieties grown in different varieties grown in different areas. *Food Chem.* 106: 482-486.
- Anjum, F.M., I. Pasha, K. Ghafoor, M.I. Khan and M.A. Raza. 2008. Preparation of sourdough bread using a blend of bacterial culture and baker's yeast. *Nutr. Food Sci.* 38(2): 146-153.
- Asi, M.R., A. Hussain and S.T. Muhammad. 2008. Solid phase extraction of pesticide residues in water samples: DDT and its metabolites. *Iranian Int. J. Environ. Res.* 2(1): 43-48.
- Butt, M.S., M.T. Nadeem, Z. Ahmed and M.T. Sultan. 2008. Xylanases and their applications in baking industry. *Food Technol. Biotechnol.* 46(1): 22-31.
- Butt, M.S., M.T. Nadeem, M.I. Khan, R. Shabir and M.S. Butt. 2008. Oat: unique among the cereals. *Eur. J. Nutr.* 47(2): 68-79.
- El-Ghorab, A.H., A.S. Hamdy, F.E. Khaled and T. Shibamo. 2008. Chemical composition of volatile extract and biological activities of volatile and less-volatile extracts of Juniper berry (*Juniperus drupacea* L.) fruit. *J. Agric. Food Chem.* 56: 5021-50252.
- Mumtaz, S., S. Rehman, N. Huma, A. Jamil and H. Nawaz. 2008. Xylooligosaccharide enriched yoghurt: physicochemical and sensory evaluation. *Pak. J. Nutr.* 7(4): 566-569.
- Murtaza, M.A., S. Rehman, F.M. Anjum and H. Nawaz. 2008. Nutritional comparison of cow and buffalo milk cheddar cheese. *Pak. J. Nutr.* 7(3): 509-512.
- Rehman, S., J.R. Piggott, M.M. Ahmad, S. Hussain, N. Ahmad and P. Owusu-Darko. 2008. Preparation and evaluation of pizza cheese made from blend of vetch-bovine milk. *Int. J. Food Sci. Technol.* 43(5): 770-778.
- Rehman, S., M.M. Ahmad and J.A. Awan. 2008. Determination of volatiles using GC-MS from peel essential oils of various citrus varieties of Pakistani origin. *J. Food Sci. Technol.* 45(4): 328-334.

COLLEGE OF AGRICULTURE, DERA GHAZI KHAN

Research papers published

2007

- Abbas, G., A. Saeed, H. Hussain, J. Farooq, F. Ashraf and Z. Hussain. 2007. Estimation of heritability and correlation analysis for seedling traits in various accessions of tomato. *Int. Symp. on Prospects of Horticultural Industry in Pakistan*, 28-30 March, 2007. *Univ. Agric., Fsd.* p.257-261.
- Anwar, R., S. Ahmad, M.S. Mazhar, I. Ahmad and Z. Hussain. 2007. Improved production and export technology in viticulture. *National Conference on Deciduous Fruits.* p.12-20.
- Hussain, F., M. Hussain, M.M. Iqbal, M.A. Akhtar, M. Zulfkiffal and Riaz-ud-Din. 2007. Heterosis studies in wheat crosses. *J. Agri. Res.* 45(4): 337-343.
- Iqbal, J. and Z.A. Cheema. 2007. Effect of allelopathic crops water extracts on glyphosate dose for weed control in cotton (*Gossypium hirsutum*). *Allelopathy J.* 19(2): 403-410.

- Iqbal, J., Z.A. Cheema and M. An. 2007. Intercropping of field crops in cotton for management of purple nutsedge (*Cyperus rotundus* L.). *Plant Soil* 300: 163-171.
- Jaskani, M.J., S.W. Kwon, Z. Hussain and I.A. Khan. 2007. Breeding polyploidy watermelon: Induction characterization and germination of tetraploids. *Int. Symp. on Prospects of Horticultural Industry in Pakistan*, 28-30 March, 2007. *Univ. Agric., Fsd.* p.274-282.
- Mahmood, A., J. Iqbal and M.S. Nazir. 2007. Agronomic performance and juice quality of autumn planted sugarcane (*Saccharum officinarum* L.) as affected by flat, ditch and pit planting under different spatial arrangements. *Int. J. Agric. Biol.* 9(1): 167-169.
- Naeem, M., J. Iqbal and M.A.A.H.A. Bakhsh. 2007. Comparative study of inorganic fertilizers and organic manures on yield and yield components of mungbean (*Vigna radiate* L.). *J. Agric. Soc. Sci.* 2(4): 227-229.
- Nouman, W., G.S. Khan, H. Farooq and A. Riaz. 2007. An assessment of Farmers' attitude towards agroforestry in district Faisalabad. *Pak. J. Agri. Sci.* (Accepted)
- Nouman, W., G.S. Khan, T.H. Khan and H. Farooq. 2007. Farmers' Views and Perceptions about Agroforestry in district Faisalabad. *Pak. J. Agric. Sci.* 44(3): 464-467.
- Nadeem, S.M., Z.A. Zahir, M. Naveed and M. Arshad. 2007. Preliminary investigation on inducing salt tolerance in maize through inoculation with rhizobacteria containing ACC-deaminase activity. *Can. J. Microbiol.* 53: 1141-1153.

2008

- Hussain, F., Riaz Ahmad and M. Ashraf. 2008. Genetics studies for yield and yield related traits in wheat under leaf rust attack. *Int. J. Agri. Biotechnol.* 10(5):
- Hussain, M., S.B. Khan, J. Anwar, M.M. Iqbal, F. Muhammad, F. Hussain and A. Qayyum. 2008. A new high yielding disease resistant wheat variety Seher 06. *Pak. J. Phytopathol.* 20(1): 159-164.
- Iqbal, J. and Z.A. Cheema. 2008. Purple nutsedge (*Cyperus rotundus* L.) management in cotton with combined application of sorgaab and S-metolachlor. *Pak. J. Bot.* 40(5). (Accepted)
- Mehboob I., M. Naveed, A. Mehboob, S.M. Shahzad, M.A. Anjum and S.M. Nadeem. 2008. Influence of temperature and texture on Potassium fixation by three differently textured soil series. *Life Sci. Int. J.* 2(3): 753-759.
- Mehboob, I., A. Mahboob, M. Naveed, S.M. Nadeem, A. Anjum and S.M. Shahzad. 2008. Effect of texture and CaCO₃ on K-fixation of applied Potassium. *Life Sci. Int. J.* 2(2): 678-683.
- Naveed, M., R. Ahmad, M.A. Nadeem, S.M. Nadeem, K. Shahzad and M.A. Anjum. 2008. Effect of a new emergence herbicide application in combination with urea on growth, yield and weeds control in Maize (*Zea mays* L.). *Life Sci. Int. J.* 2(3): 158-170.

ABSTRACTS

2007

- Anwar, R., S. Ahmad, M. Nafees, I. Ahmad, M.S. Mazhar and Z. Hussain. 2007. Monthly nutritional program in mango (*Mangifera indica* L.) for the improvement of flowering and fruit set. In: Khan, M.M., W. Ahmad and R. Anwar (Eds.), *Int. Symp. on Prospects of Horticultural Industry in Pakistan. Inst. Horti. Sci., Univ. of Agric., Faisalabad.* p. 86.
- Fatima, B., N. Anjum and Z. Hussain. 2007. In vitro multiple shoots induction in tomato cultivars. In: Khan, M.M., W. Ahmad and R. Anwar (Eds.), *Int. Symp. on Prospects of Horticultural Industry in Pakistan. Inst. Horti. Sci., Univ. of Agric., Faisalabad.* p. 80.
- Hussain, Z., M. Usman., B. Fatima and M.M. Khan. 2007. Somatic embryogenesis and plant regeneration in cucumber cultivars. In: Khan, M.M., W. Ahmad and R. Anwar (Eds.), *Int. Symp. on Prospects of Horticultural Industry in Pakistan. Inst. Horti. Sci., Univ. Agric., Faisalabad.* p. 64.
- Ishaq, G., M.J. Jaskani and Z. Hussain. 2007. Recovery of hybrids from inter-specific hybridization of citrus. In: Khan, M.M., W. Ahmad and R. Anwar (Eds.), *Int. Symp. on Prospects of Horticultural Industry in Pakistan. Inst. Horti. Sci., Univ. Agric., Faisalabad.* p. 69.

2008

- Khan, I.A., Y. Iftikhar, M.M. Khan, S.M. Mughal, A. Batool, M. Abbas, A. Nawaz, S.A. Naqvi, T. Iqbal, M.J. Jaskani and Z. Hussain. 2008. Incidence of citrus tristeza closterovirus (CTV) in Pakistan. *Int. Soc. Citriculture.* (Accepted)

Khan, M.M., Y. Iftikhar, S.M. Mughal, A. Batool, M. Abbas, A. Nawaz, S.A. Naqvi, T. Iqbal, M.J. Jaskani, Z. Hussain and I.A. Khan. 2008. Effect of citrus tristeza virus on Phenolic compounds, chlorophyll and starch content in infected citrus samples. *Int. Soc. Citriculture*. (Accepted)

Technical Articles

2008

- Anwar, R., M.T. Malik., S. Ahmad, Z. Hussain and M.M. Naeem. 2008. Molecular mechanism of fruit development and its application for plant breeding. *Pakistan Horticulture* (Ahmad, S.). The Horticultural Foundation of Pakistan and Pakistan Science Foundation, Islamabad–Pakistan. p. 36-38.
- Anwar, R., S. Ahmad, Z. Hussain and A. Pervez. 2008. Trends and outlook for international date trade. *Pakistan Horticulture* (Ahmad, S.). The Horticultural Foundation of Pakistan and Pakistan Science Foundation, Islamabad–Pakistan. p. 37-39.
- Hussain, Z., M.J. Jaskani., R. Anwar and I. Ahmad. 2008. Acclimatization of micro-propagated plants to the greenhouse and field. *Pakistan Horticulture* (Ahmad, S.). The Horticultural Foundation of Pakistan and Pakistan Science Foundation, Islamabad–Pakistan. p. 34-35.
- Hussain, Z., R. Anwar, S. Ahmad and M.M. Naeem. 2008. Different strains of Citrus Tristeza virus in Pakistan. *Pakistan Horticulture* (Ahmad, S.). The Horticultural Foundation of Pakistan and Pakistan Science Foundation, Islamabad–Pakistan. p. 51-52.
- Tahir, T., M.M. Naeem, R. Anwar, W. Ahmad and Z. Hussain. 2008. Introduction of biological control in fruit orchards. *Pakistan Horticulture* (Ahmad, S.). The Horticultural Foundation of Pakistan and Pakistan Science Foundation, Islamabad–Pakistan. p. 26-29.

SUB-CAMPUS DEPALPUR, OKARA

Research papers published

2007

- Ahmad, F., Rahmatullah, T. Aziz, M.A. Maqsood, M.A. Tahir and S. Kanwal. 2007. Effect of silicon application on wheat (*Triticum aestivum* L.) growth under water deficiency. *Emir. J. Food Agric.* 19(2): 1-7.
- Chaudhry, A.K., G.S. Khan and I. Ahmad. 2007. Comparison of economic returns from popular-wheat, fodder maize intercropping to monoculture. *Pak. J. Agric. Sci.* 44(3): 459-463.
- Chaudhry, A.K., G.S. Khan and I. Ahmad. 2007. Effect of poplar tree intercropping at various densities on the post harvest soil nutrient contents. *Pak. J. Agric. Sci.* 44(3): 468-471.
- Jabbar, A., W. Din and M.M. Khan. 2007. Agronomic approaches for productivity enhancement of upland rice-based inter-cropping systems under strip plantation. *Pak. J. Agric. Sci.*
- Khan, G.S., I. Ahmad and M.F. Nawaz. 2007. Sprouting percentage and growth behaviour of *Morus alba* as affected by size of cuttings and polythene tunnel. *Pak. J. Agric. Sci.* 44(2): 328-331.
- Nasim, M., R.H. Qureshi, M. Saqib, T. Aziz, S. Nawaz, J. Akhtar and M.A. Haq. 2007. Properties of salt affected soil under *Eucalyptus camaldulensis* plantation in field conditions. *Pak. J. Agric. Sci.* 44(3): 44(3): 401-407.
- Nasim, M., R.H. Qureshi, T. Aziz, M. Saqib, S. Nawaz, S.T. Sahi and S. Pervaiz. 2007. Screening trees for salinity tolerance: A case study with ten *Eucalyptus* species. *Pak. J. Agric. Sci.* 44(3): 385-392.
- Shahzad, M.A., W. Din, S.T. Sahi, M. Khan, I. Ullah and M. Ahmad. 2007. Effect of sowing dates and seed treatment on grain yield and quality of wheat. *Pak. J. Agric. Sci.* 44(4): 1-3.

2008

- Butt, T.M., L.H. Akhtar and M. Kashif. 2008. Rural development through adult women education program in tehsil Depalpur, dist. Okara. WFL Publisher, Science and Technology, Finland. (Accepted)
- Butt, T.M., S.T. Sahi, K. Mehmood, S. Muhammad and M. Aamer. 2008. Role of mass media in the promotion of latest technology among farmers for enhancing the potato production in tehsil Depalpur, dist. Okara, Pakistan. *Sarhad J. Agric.* (Accepted)

SUB CAMPUS TOBA TEK SINGH

Research papers published

2007

- Ahmad, G., T. Mushtaq, M.A. Mirza and Z. Ahmad. 2007. Comparative bio-efficacy of lysine from L-lysine sulfate in basal diets containing graded levels of canola meal for female broiler chickens. *Poult. Sci.* 86: 525-530.
- Akhtar, P., M. Abdullah, M. Younis and M.A. Mirza. 2007. Heritability estimates of some growth traits of Hissardale sheep in Pakistan *Indian J. Anim. Sci.* 77: 65-67.
- Iqbal, M., A. Mirza and S.H. Raza. 2007. Role of buffalo in contributing milk and meat in Pakistan. *Ital. J. Anim. Sci.* 6(Suppl. 2) 1387-1389.
- Mushtaq, T., M.A. Mirza, M. Athar, D.M. Hooge, T. Ahmad, G. Ahmad, M.M.H. Mushtaq and U. Noreen. 2007. Dietary sodium and chloride for twenty-nine to forty-two days old broiler chickens at constant electrolyte balance under subtropical summer conditions. *J. Appl. Poult. Res.* 16: 161-170.
- Mushtaq, T., M. Sarwar, G. Ahmad, M.A. Mirza, H. Nawaz, M.M.H. Mushtaq and U. Noreen. 2007. Influence of canola meal based diets supplemented with exogenous enzyme and digestible lysine on performance, digestibility carcass and immunity responses of broiler chickens. *Poult. Sci.* 86: 2144-2151.
- Wajid, A., M. Maqsood, K. Hussain and M. Ibrahim. 2007. Response of growth, yield and quality of different cotton cultivars to sowing dates. *Pak J. Agric. Sci.* 44(2): 45-47.

2008

- Khan, Z., I. Hussain, A. Ashraf and M.A. Mirza. 2008. Evaluation of sheep selenium status in a semi arid region of Pakistan. *Iranian J. Vet. Res.* 9: 1.
- Mushtaq, T., M. Sarwar, G. Ahmad, M.A. Mirza, T. Ahmad, M. Athar, M.M.H. Mushtaq and U. Noreen. 2008. Influence of prepress solvent extracted cottonseed meal supplemented with exogenous enzyme and digestible lysine on performance, digestibility, carcass and immunity responses of broiler chicks. *J. Anim. Physiol. Anim. Nutr.* (Accepted)
- Rathgeber, B.M., K.L. Budgell, J.L. MacIsaac, M.A. Mirza and K.L. Doncaster. 2008. Growth performance and spleen and bursa weight of broiler fed yeast beta-glucan. *Can. J. Anim. Sci.* 88: 1-5.
- Woyengo, T.A., W. Guenter, J.S. Sands, C.M. Nyachoti and M.A. Mirza. 2008. Nutrient utilization and performance response in broiler fed wheat-base diet. *Anim. Feed Sci. Technol.* 146: 113-123.
- Zaman, Q.U., T. Mushtaq, H. Nawaz, M.A. Mirza, S. Mahmood, T. Ahmad, M.E. Babar and M.M.H. Mushtaq. 2008. Effect of varying dietary energy and protein on broiler performance in hot climate. *Anim. Feed Sci. Technol.* (Accepted)

LIST OF BOOKS PUBLISHED BY THE TEACHERS AT NATIONAL/ INTERNATIONAL LEVEL

UNIVERSITY OF AGRICULTURE, FAISALABAD

| T.S# | S.# | Author_1 | Author_2 | Author_3 | Author_4 | Title | Edition | Published by | Year | Remarks |
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| DEPARTMENT OF PLANT PATHOLOGY | | | | | | | | | | |
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| DEPARTMENT OF CROP PHYSIOLOGY | | | | | | | | | | |
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| DEPARTMENT OF AGRONOMY | | | | | | | | | | |
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| FACULTY OF AGRI. ENGG. AND TECHNOLOGY | | | | | | | | | | |
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| 8. | 2 | Nafees, A. | Zia R. | Shujat A | Nazir A. | Insemination in livestock and reproductive health | 1st | Press Market Faisalabad | 2006 | Urdu |
| INSTITUTE OF SOIL AND ENVIRONMENTAL SCIENCES | | | | | | | | | | |

| T.S# | S.# | Author_1 | Author_2 | Author_3 | Author_4 | Title | Edition | Published by | Year | Remarks |
|--|-----|---------------|----------------|-------------|-----------|--|-----------------|---|------|---------------------------|
| 9. | 1 | Ghafoor, A., | Ghulam M. | Iqrar H. | | Fundamentals of scientific communications and presentations | | University of Agriculture, Faisalabad. | 2006 | |
| FACULTY OF VETERINARY SCIENCES | | | | | | | | | | |
| DEPARTMENT OF VETY. ANATOMY | | | | | | | | | | |
| 10. | 1 | Qureshi, A.S. | Chaudhry, M.N. | | | Illustrated Veterinary Histology | 2nd | Mass Publisher, Faisalabad. | 2006 | |
| 11. | 2 | Qureshi, A.S. | R.U. Shahid | S. Rehan | | Text Book of Veterinary Anatomy for Livestock Diploma Assistance | | Directorate of Livestock & Dairy Development, Lahore. | 2006 | Urdu |
| DEPARTMENT OF CLINICAL MEDICINE & SURGERY | | | | | | | | | | |
| 12. | 1 | Iqbal ,Z. | A. Jabbar | G. Muhammad | M.N. Khan | 56 Knowledge and their indigenous uses in Animals. In: Govil, J. N. (Ed.) recent progress in Medical plant | | | 2006 | Chapter shared PP-507-551 |
| 13. | 2 | Rao. Z.A. | Z. Iqbal | M.N. Khan | A. Jabbar | Ilm-e-Tufailiat | 1st | Al-Rafiq Afzali Printing Press, Faisalabad. | 2006 | Urdu |
| 14. | 3 | Iqbal Z. | Sohail, S. | A. Jabbar | Zahid A.R | Technical in Parasitology | 1st | D.G. Administration, HEC Islamabad, Pakistan. | 2006 | |
| DEPARTMENT OF PHYSIOLOGY AND PHARMACOLOGY | | | | | | | | | | |
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| DEPARTMENT OF VETERINARY PARASITOLOGY | | | | | | | | | | |
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| 17. | 2 | Iqbal, Z.A | A. Jabbar | G. Muhammad | M.N Khan | Traditional Knowledge and their indigenous uses in animals. | Vol 15 | Stadium Press L.LC | 2006 | |
| 18. | 3 | Iqbal Z. | Sajid, M.S. | A. Jabbar | Khan M.N | A textbook of Techniques in Parasitology. | | HEC | 2006 | |
| FACULTY OF ANIMAL HUSBANDRY | | | | | | | | | | |
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|--|-----|--------------|--------------|------------|-----------|--|---------|--|---------|----------|
| 20. | 1 | Virk, M.R. | Hassan R. | Lateef M. | Yaqoob M. | Principles and Practices in livestock | | Pak TM Printers Street No.6, Munshi Mohallah, Aminpur Bazar, Fsd. | 2006 | |
| 21. | 2 | Bilal, M.Q. | M. Suleman | | | Camel Production | 1st | Al-Bagdad Printers & Publishers, Faisalabad. | 2006 | |
| 22. | 3 | Younas, M. | | | | Overall view of Animal Husbandry | | Urdu Bazar Lahore | 2006 | Chap.33 |
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| 28. | 9 | Bilal, M.Q. | A. Haq | M. Suleman | | Sheep and Goat farming | | University of Agriculture, Faisalabad. | 2006 | |
| 29. | 10 | Bilal, M.Q. | Suleman | | | Camel production | | Al-Baghdad Printer Publishers | 2006 | |
| 30. | 11 | Bilal, M.Q. | A. Haq | | | Sheep and goat farming Agriculture Digest | | | 2006 | |
| 31. | | Haq, A.M.Q | Bilal | S. Rehman | | Poultry Farm Management Agriculture Digest | | | 2006 | |
| INSTITUTE OF ANIMAL NUTRITION & FEED TECHNOLOGY | | | | | | | | | | |
| 32. | 1 | Mehr un Nisa | Sarwar M. | | | Advance Feed technology for Animals | | Friends Science Publishers, 399-B, Peoples Colony No.1, Faisalabad. | 2006 | |
| FACULTY OF SCIENCES | | | | | | | | | | |
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|---------------------------------------|-----|--------------|--------------|-------------|-------------|--|---------|--|---------|----------|
| 34. | 2 | Munir H. | Bhatti, H.N. | | | Ahad objective chemistry Class F.Sc. Part II | | Friends Book Depot Faisalabad and Awais Book Centre Urdu Bazar lahore Pakistan | 2005-06 | |
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| 38. | 6 | Bhatti, H.N. | | | | Inorganic Chemistry | 1st | Carwan Book House, Lahore, Pakistan. | 2006 | |
| 39. | 7 | Bhatti, H.N. | B.A. Nasir | | | Modern Inorganic Chemistry | 2nd Ed. | Carwan Book House, Lahore, Pakistan. | 2006 | |
| 40. | 8 | Bhatti, H.N. | | | | Test your Chemistry | | Carwan Book House, Lahore, Pakistan. | 2006 | |
| 41. | 9 | Munir H. | Bhatti, H.N. | | | Chemistry for 11th class syllabus | | Friends Book Depot Faisalabad and Awais Book Centre Urdu Bazar lahore Pakistan | 2006-07 | |
| DEPARTMENT OF COMPUTER SCIENCE | | | | | | | | | | |
| 42. | 1 | Tasleem M, | T. Mahmood | Abid M. | A.R. Sattar | Visual Programming Using visual basic | | Kitab Markaz, Faisalabad, Pakistan. | 2006 | |
| 43. | 2 | T. Mahmood | A.R. Sattar | Imran Saeed | Zaheer A. | VEB programming | | IT Publishers Faisalabad, Pakistan. | 2006 | |
| DIRECTORATE OF RESEARCH | | | | | | | | | | |
| 44. | 1 | Ghafoor A. | A. Naveed | A. Rashid | | Farmers Friendly Technologies (1961-2005) | 1st | University of Agriculture, Faisalabad | 2006 | Compiled |
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|---|-----|------------|-----------|-----------|----------|--|---------|---------------------------------------|------|----------|
| 48. | 5 | Ghafoor A. | A. Rashid | A. Naveed | | Research Consummations of Punjab Agricultural College and Research Institute, Lyallpur (1906-1960) | 1st | University of Agriculture, Faisalabad | 2006 | Compiled |
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| FACULTY OF ANIMAL HUSBANDRY | | | | | | | | | | |
| DEPARTMENT OF LIVESTOCK MANAGEMENT | | | | | | | | | | |
| 1. | 1 | Khan, B.B. | M. Yaqoob | M. Riaz | M. Younas and A. Iqbal | Livestock Management Manual for II. | | Pak T.M. Printers, Amin Pur Bazar, Faisalabad. | 2006 | |
| FACULTY OF ENGINEERING AND TECHNOLOGY | | | | | | | | | | |
| 2. | 1 | Bhatti H.N. | Hussain K. | | | Physical chemistry Lab. Manual | | Caravan Book House Lahore | 2006 | |

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| INSTITUTE OF SOIL AND ENVIRONMENTAL SCIENCES | | | | | | | | | | |
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| DEPARTMENT OF AGRI. ENTOMOLOGY | | | | | | | | | |
| 1. | Suhail, A. | M. Asgher | M. Arshad | | Insect faunal. Biodiversity associated with Rice in Pakistan with particular reference to Rice Black Bug, RICE BLACK.BUG Taxonomy, Ecology, and Management of Invasive Species. | | Edt. Joshi, R. C., A. T. Barrion and L. S. Sebastian p: 643-652. ISBN 978-971-9081-39-5 | 2007 | |
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| INSTITUTE OF HORTICULTURAL SCIENCES | | | | | | | | | |
| 1. | Khan, I.A | | | | Citrus Genetics, Breeding and Biotechnology | | CAB International, UK | 2007 | |
| 2. | Khan, I.A | W.J. Kender | | | Citrus breeding. In: Khan, I. (ed.) | | CAB International, UK. | 2007 | |
| 3. | Jaskani, M.J. | M. Omura and | I.A. Khan. | | Cytogenetics. In: Khan, I. (ed.) Citrus Genetics, Breeding and Biotechnology | | CAB International, UK. pp. 151-166. | 2007 | |
| INSTITUTE OF SOIL AND ENVIRONMENTAL SCIENCES | | | | | | | | | |
| 1. | Khan, A.U.H. | R. Lal | | | Potential for carbon sequestration in soils of Afghanistan and Pakistan. | | | 2007 | |
| 2. | Lal, R., M. Suleimenov | B.A. Stewart, D.O. Hansen | P. Doraiswamy (Eds.) | | Potential for carbon sequestration in soils of Afghanistan and Pakistan. | | Balkema / Taylor and Franacis, Holland. P.235-250 (Book/Chapter published) | 2007 | |
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|---|---------------|--------------|----------|----------|--|---------|--|---------|---------|
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| 2. | Bilal, M.Q. | | | | Livestock Management related technologies; contributed A chapter in the book entitled On Farm Research and Technology Transfer Activities at Toba Tek Singh, University of Agriculture Faisalabad. | | University of Agriculture Faisalabad. | 2008 | |
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