***MUHAMMAD IRFAN ULLAH, PhD***

*Dept. of Entomology*

*University College of Agriculture*

*University of Sargodha, Sargodha 40100*

*Pakistan*

*00(92) 340 100 3434*

*mirfanullah@uos.edu.pk*



**EDUCATION**

**Ph.D.** Entomology (**2012**) *University of Nebraska-Lincoln USA*

**M.Sc.(Hons)**. Agric. Entomology (**2003**) *University of Agriculture Faisalabad, Pakistan*

**B.Sc. (Hons).** Agriculture (Honors) – Entomology major (**2001**) *University of Agriculture Faisalabad, Pakistan*

***Ph.D. Dissertation Advisors:*** *Dr. W. W. Hoback & Dr. John E. Foster*

**EXPERIENCE**

**University of Sargodha, Sargodha (April 2013-Present)** *Assistant Professor, Dept. of Entomology.*

Teaching and research.

**University of Nebraska-Lincoln (Fall 2010, Spring 2012)** *Teaching Assistant, Dept. of Entomology.*

Forensic DNA analysis, Biotic and abiotic stressors.

**University of Sargodha, Sargodha (July 2008-April 2013)** *Lecturer, Dept. of Entomology.*

Teaching and research.

**Agribusiness Support Fund (ASF) (Sep 2007-July 2008)** *Citrus GlobalGAP consultant.*

Developing GLOBALGAP® principles and procedures for citrus producers, processors and exporters for the quality of produce and worldwide export of citrus. To maintain the food safety and quality of the product. To ensure judicious use of plant protection products. Promotion of integrated pest management (IPM) for the control of agricultural pests.

**Citrus Research Institute, Sargodha (Nov 2005-June 2007)** *Assistant Research Officer Entomology*.

Research and development for the sustainable management of citrus insect pests.

**Pakistan Agro Chemicals Pvt. Ltd. (Nov 2004-Nov 2005)** *Technical Services Officer*.

Research and development

**SAWA-AG Network, Pakistan (Dec 2003-Aug 2004)** *Area Manager (Development and Sales)*

Research and development.

**RELEVANT COURSE WORK**

***UNDERGRAD COURSE SERIES***

Biochemistry • Crop Production • Crop Protection (Entomology & Plant Pathology) • Plant Breeding & Genetics • Soil Science • Agricultural Economics • Agricultural Education & Extension

***GRADUATE******LEVEL******COURSES***

*Entomology:* Insect Physiology • Insecticide Toxicology • Biomolecules and Metabolism • Biology and Classification of Insects • Molecular Techniques in Entomology • Biotic and Abiotic Stressors

*Statistics:* Statistical Methods in Research • Experimental Designs

**REFEREED PUBLICATIONS**

1. **Ullah, M. I**., M. Arshad, S. Ali, Y. Iftikhar, S. U. Mahmood. **2016**. Effect of Thiamethoxam and Some Botanical Extracts on *Cotesia glomerata* L. (Hymenoptera: Braconidae) the Endoparasitoid of *Pieris brassicae* (L.) (Lepidoptera: Pieridae). *Egyptian Journal of Biological Pest Control*. 26(3): 545-549. ***0.152***
2. **Ullah, M. I**., M. Arshad, S. Ali, Y. Iftikhar, J. Molina-Ochoa and J. E. Foster. **2016**. Host Utilization by an Endoparasitoid, *Cotesia glomerata* L. (Hymenoptera: Braconidae) in Different Instars of *Pieris brassicae* L. (Lepidoptera: Pieridae). *Egyptian Journal of Biological Pest Control*. 26(3): 625-629. ***0.152***
3. Haq, A., Y. Iftikhar, **M. I. Ullah**, M. Mubeen, Q. Shakeel, F. Bakhtawar and I. Bilqees. 2016. Disease progression in potato germplasm from different reaction groups against potato virus Y in relation to environmental factors. *Tropical Plant Research*. 3(3): 600-605.
4. Arshad, M., **M. I. Ullah**, M. Afzal, H. M. Aatif, Y. Iftikhar, J. Molina-Ochoa and J. E. Foster. **2016**. Association of citrus leafminer damage with physiological parameters and larval weight in *Citrus reticulata*. *International Journal of Tropical Insect Science* (Accepted). ***0.518***
5. Arshad, M., R. R. Khan, **M. I. Ullah**, M. Afzal, I. Mustafa, Y. Iftikhar, B. Tiroesele and John E Foster. **2016**. Field evaluation of different insecticide formulations against *Lipaphis erysimi* (Hemiptera: Aphididae) on *Camelina sativa*. *Pakistan Journal of Zoology*. 48(6): 1623-1626. ***0.478***
6. Arshad, M., **M. I. Ullah**, M. U. Mehmood, M. R. Arshad, and M. F. Khan. **2016**. Agricultural students and their academic performance: A study of students in Punjab, Pakistan. *International Journal of Environmental and Science Education*.11(12):5429-5437.
7. Khaliq, A., M. Afzal, A. M. Raza, M. Kamran, H. M. Tahir, M. A. Aqueel and **M. I. Ullah**. **2016**. Management of *Thrips tabaci* (Thysanoptera: Thripidae) through agronomic practices in onion field plots. *Pakistan Journal of Zoology*. 48(6): 1875-1680. ***0.478***
8. **Ullah, M. I.,** M. Arshad, M. Afzal, S. Khalid, M. Saleem, I. Mustafa, Y. Iftikhar, J. Molina-Ochoa and J. E. Foster. **2016**. Incidence of *Spodoptera litura* (Lepidoptera: Noctuidae) and Its Feeding Potential on Various Citrus (Sapindales: Rutaceae) Cultivars in the Sargodha Region of Pakistan. *Florida Entomologist*. 99(2): 192-195. ***0.975***
9. Bilqees, I., Y. Iftikhar, M. Kamran, M. Mubeen, **M. I. Ullah**, M. I. Tahir and Z. Hussain. **2016**. Management of okra yellow mosaic disease (OYVMD) through micro-nutrients and botanicals in relation to disease progression and environmental factors. *Transylvanian Review*. 24(8):1232-1239. ***0.030***
10. Aatif, H. M., N. Javed, **M. I. Ullah**, S. Pervaiz, Z. Iqbal, S. Ahmad, I. Mustafa, Y. Iftikhar and M. Afzal. 2016. Biological Management of *Meloidogyne incognita* Using Entomopathogenic Bacterial Cell Suspensions with Other Bioproducts in Egg Plant. *Pakistan Journal of Zoology*. 48(3): 887-890. ***0.478***
11. Qamar, M., Y. Iftikhar, A. Ali, **M. I. Ullah**, M. Mubeen. 2016. Disease severity index as it affects responses in potato virus X-challenged potato varieties. *International Journal of Vegetable Science*. 22(5): 471-479. http://dx.doi.org/10.1080/19315260.2015.1077914
12. **Ullah, M. I.,** F. Mustafa, W. W. Hoback, M. L. Brust, K. M. Farnsworth-Hoback and J. E. Foster. 2015. Short-horned Grasshopper Subfamilies Feed at Different Rates on Big Bluestem and Switchgrass Cultivars. *Biologia*. 70(12): 1631-1636. ***0.719***
13. Khan, A. A., M. Afzal, **M. I. Ullah**, A. M. Khan and S. Saeed. 2015. Asian Citrus Psyllids (Hemiptera: Psyllidae), Its Vectored Disease “Huanglongbing” and Its Eco-Friendly Management. *Applied Sciences and Business Economics*. 2 (3): 1-12.
14. Arshad, M., M. Z. Majeed, **M.I. Ullah**, K. Ahmad, M. Tayyab and M. Yahya. 2015. Laboratory evaluation of some insecticides against citrus mealybug *Planococcus citri*, (Homoptera: Pseudococcidae). *Journal of Entomology and Zoology Studies*. 3(6): 20-23.
15. Mustafa, I., A. M. Raza, M. Aslam, R. Yasmin, **M. I. Ullah**. 2015. Biodiversity of lepidopterous fauna in Sargodha, Punjab Pakistan. *International Journal of Agriculture and Applied Sciences*. 7(1): 12-24.
16. Mubeen, M., H. M. I. Arshad, Y. Iftikhar, **M. I. Ullah**, I. Bilqees. 2015. Bio-chemical characterisation of *Xanthomonas axonopodis* pv, *Citri* a gram negative bacterium causing citrus canker. *International Journal of Science and Nature*. 6(2):151-154.
17. Hussain, S. M., M. Afzal, A. Javed, A. I. Hussain, Q. Ali, I. Mustafa, S. A. S. Chatha, S. Z. H. Shah, M. Hussain and **M. I. Ullah**. 2015. Efficacy of Phytase Supplementation on Growth Performance and Mineral Digestibility of *Labeo rohita* Fingerlings Fed on Cottonseed Meal Based Diet. *Pakistan Journal of Zoology*. 47(3): 699-709. 0.478
18. Mustafa, I., N. Arif, S. M. Hussain, I. U. Malik, A. Javed, **M. I. Ullah**, S. Ashraf, M. R. Khan, A. Waqas, S. A. M. Eqani, S. Irum and H. Ahmed. 2015. Population dynamics of House sparrow (*Passer domestics*) and House Crow (*Corvus splendens*) in Punjab (District Sargodha), Pakistan. *Pakistan Journal of Zoology*. 47: 1147-1155. 0.478
19. Murtaza, M. A., N. Huma, I. Mustafa, H. Nawaz, M. S. Murtaza and **M. I. Ullah**. 2015. Composition and Microstructure of Buffalo Skim Milk Powder as Influenced by Concentration and Drying Temperatures. *Pakistan Journal of Zoology* .47(4): 1157-1161. 0.478
20. Payne, J., E. Lindroth, K. Kneeland, S. R. Skoda, F. Mustafa, **M. I. Ullah** and J. E. Foster. 2014. Bootsie- estimation of coefficient of variation of AFLP data by bootstrap analysis. *Pakistan Entomologist*. 36 (2): 79-81.
21. Mustafa, F., **M. I. Ullah**, K. M. Kneeland, T. A. Coudran, D. W. Stanley, W. W. Hoback and S. R. Skoda, J. Molina-ochoa and J. E. Foster. 2014. Genetic variability in spined soldier bug (Hemiptera: Pentatomidae) populations originating from distant geographic regions and laboratory colonies. *Florida Entomologist*. 97(4): 1631-1639. 0.975
22. **Ullah, M. I**., F. Mustafa, K. M. Kneeland, M. L. Brust, W. W. Hoback, S. T. Kamble and J. E. Foster. 2014. Forms of *Melanoplus bowditchi* (Orthoptera: Acrididae) collected from different host plants are indistinguishable genetically and in aedeagal morphology. *PeerJ*. 2: e418 <http://dx.doi.org/10.7717/> Peerj.418. 2.183
23. Palizada, S. A., B. Tiroesele, D. K. Belay, **M. I. Ullah**, F. Mustafa, T. E. Hunt, P. L. Clark, J. Molina-Ochoa, S. R. Skoda, J. E. Foster. 2014. Minute pirate bug (*Orius insidiosus* Say) populations on transgenic and non-transgenic maize using different sampling techniques. *Pakistan Entomologist*: 36(1): 1-6.
24. Haq, M. Z., M. Afzal, A. A. Khan, A. M. Raza, **M. I. Ullah**, A. M. Khan, M. Kamran. 2014. Impact of Phytopesticides on *Trogoderma granarium* Everts (Coleoptera: Dermestidae) in stored Wheat. *World Applied Sciences Journal*. 31 (10): 1722-1733.
25. Mustafa, I., M. Arshad, Saman, **M. I. Ullah**, S. Asif, M. Mustaqeem, M. Aslam, A. Waqas, S. A. Bokhari, M. R. Khan and H. Ahmed. 2014. Association of Citrus Leaf Miner with Leaf Biochemical Factors (Ca+2, K+ and Mg+2) in Kinnow Leaves of District Sargodha, Punjab Pakistan. *Pakistan Journal of Zoology*. 46(4): 953-958. 0.478
26. Aatif, H. M., N. Javed, S. A. Khan, S. P. Lali, and **M. I. Ullah**. 2014. Evaluation of persistence and effectiveness of bacterial cell suspensions and culture filtrates against *M. incognita* on brinjal. *Archives of Phytopathology and Plant Protection*: 1-11. DOI 10.1080/03235408.2014.880571
27. Palizada, S. A., D. K. Belay, B. Tiroesele, F. Mustafa, **M. I. Ullah**, T. Hunt, J. Molina-Ochoa, S. R. Skoda, P. L. Clark, J. E. Foster. 2013. Non Target Effect of Cry1 Ab and Cry Ab x Cry3 Bb1 Bt Transgenic Maize on *Orius insidiosus* (Hemiptera: Anthocoridae) Abundance. *Entomology, Ornithology & Herpetology*. 2:107.
28. Ahmed, S. and **M. I. Ullah**. 2005. Toxicity of Dichlorvos 50EC and Chlorpyrifos 40EC against house fly, *Musca domestica* L. *Pakistan Journal of Agricultural Sciences*. 41 (1-2): 65-71. 0.579
29. Ahmed, S., and **M. I. Ullah**. 2007. Toxicity of Pyrethorids Co-administered with Sesame Oil against house fly *Musca domestica* L. *International Journal of Agriculture and Biology*. 9 (5): 782-784. 0.785
30. Ahmed, S., R. R. Khan, **M. I. Ullah** and I. Rauf. 2004. Comparative efficacy of some insecticides against *Helicoverpa armigera* Hubner and Spodoptera spp. on tobacco. *International Journal of Agriculture and Biology*. 6 (1): 93-95. 0.785
31. Ahmed, S., Zain-ul-Abdin and **M. I. Ullah**. 2004. Evaluation of some pyrethroids for the control of house fly, *Musca domestica* L. *International Journal of Agriculture and Biology*. 6 (5): 806-809. 0.785
32. Burhan, M., M. A. Khan, **M. I. Ullah** and M. R. Jamil and M. Ishfaq. 2007. Incidence of Potato Virus X (PVX), Potato Virus Y (PVY), Potato Virus S (PVS) on Potato Cultivars in Potato Growing Areas. *Journal of Agriculture and Social Sciences*. 3 (1): 37-38.
33. Burhan, M., M. A. Khan, **M. I. Ullah**, M. Ishfaq and M. E. Javed. 2007. Comparison of seed potato produced from different rapid multiplication sources against PVX, PVY and PVS through ELISA. *Journal of Agricultural Research*. 45 (1): 67-71.
34. Kamran, M., M. Afzal, A. M. Raza, **M. I. Ullah**, M. H. Bashir and S. Ahmad, 2009. Discovery of A New Larval Erythraeid Mite (Acari: Erythraeidae: Erythraeinae) From Punjab, Pakistan. *Pakistan Journal of Zoology*. 41 (5) 357-361. 0.478

**Submitted:**

1. Tiroesele, B., S. R. Skoda, T. E. Hunt, D. J. Lee, **M. I. Ullah**, J. Molina-Ochoa and J. E. Foster. 2016. Morphological and genetic analysis of four color forms of bean leaf beetle, Cerotoma trifurcate (Foster) Coleoptera: Chrysomelidae). Applied Entomology and Zoology (Submitted)
2. Arshad, M., **M. I. Ullah**, M. Afzal, Y. Iftikhar, S. Khalid, Z. Hussain, J. Molina-Ochoa and J. E. Foster.2016. Seasonal abundance of *Phyllocnistis citrella* (Lepidoptera: Gracillariidae) on mandarine (Sapindales: Rutaceae) groves in Pakistan. Journal of the Entomological Research Society (Submitted).
3. Molina-Ochoa, J., E. Galindo-Velasco, A. M. Rosales-Gutierrez, M. Gonzalez-Ramirez, R. Lezama- Gutierrz, L. J. Garcia-Marquez,W. Chan-Cupul, S. R. Skoda, **M. I. Ullah** and J. E. Foster. 2015. Susceptinility of adult engorgrd ticks, Rhipicepjalus=Boophilus Microplus (ACARI: IXODIDAE) to the heterorhabditis isolate JMO71 (Nemaroda: Heterorhabditidae) in Western Mexico. Pak. J. Zoology (Submitted).
4. Arshad, M. R., **M. I. Ullah**, M. Arshad, S. M. Khan, M. A. Bakar, Y. Iftikhar, J. Molina-Ochoa and J. E. Foster. 2015. Yield Performance of Oyster mushroom, *Pleurotus ostreatus*, (Tricholomatales: Pleurotaceae) on Sugarcane Industry waste amended with Cotton and Sorghum wastes.World Journal of Microbiology and Biotechnology. (Submitted).
5. **Ullah, M. I**., M. L. Brust, W. W. Hoback, K. M. Farnsworth-Hoback. 2015. Common Nebraska rangeland grasshopper (Orthoptera: Acrididae) distributions predicted by ecoregions. PeerJ (In Review).
6. Ahmad, M. H., **M. I. Ullah**, A. M. Raza, M. Afzal, M. Kamran, A. Khaliq, I. Mustafa, H. M. Aatif and M. Arshad. 2015. Population Dynamics of *Thrips tabaci* (Lindeman) in Relation to Abiotic Climate Factors on Bt and Non-Bt Cotton Cultivars. Pakistan Journal of Zoology (QPJZ-0156 -2015) (Submitted).
7. Shahzad, M. M., I. Mustafa, S. M. Hussain, S. Nasir, M. S. Mubarik, M. Furqan, S. Nazli, M. N. Qaiser, H. Ahmed and **M. I. Ullah**. 2015. Potential effects of abiotic factors on population dynamics of fruit fly (*Bactrocera dorsalis*) larvae and pupae in citrus and guava fruits in Sargodha region, Pakistan. Turkish Journal of Entomology (Submitted).

**In Preparation:**

1. **Ullah, M. I**., F. Mustafa, M. L. Brust, W. W. Hoback and K. M. Farnsworth-Hoback and J. E. Foster 2015. Plant species and plant water status affect clipping rates by grasshopper species. (Pakistan J. Zool.).
2. Haq. M., M. Afzal, **M. I. Ullah**, A. Khan. 2015. Quantitative losses by *Trogoderma granarium* (Dermestidae: Coleoptera) In different wheat genotypes.
3. Mustafa, F., **M. I. Ullah**, W. W. Hoback, R. Mitchell, K. M. Farnsworth-Hoback and J. E. Foster. 2015. Effect of Simulated Insect Defoliation on the yield response of lowland and upland cultivars of switchgrass (*Panicum virgatum* L.).
4. Mustafa, F., **M. I. Ullah**, W. W. Hoback and J. E. Foster. 2013. Assessment of leaf area consumption by different life stages of *Melanoplus femurrubrum* (Orthoptera: Acrididae).
5. Mustafa, F., **M. I. Ullah**, K. M. Farnsworth-Hoback, W. W. Hoback, S. T. Kamble and J. E. Foster. 2015. Switchgrass (*Panicum virgatum*) photosynthetic response to simulated insect defoliation.
6. **Ullah, M. I**., K. A. Khan. 2015. American Bollworm, *Helicoverpa armigera* (Hub.) herbivory and its effects on photosynthetic rates in different cotton cultivars. (In draft).
7. **Ullah, M. I**., M. I. Khan. 2015. Feeding performance of American bollworm (*Helicoverpa armigera* H.) in relation to water status of different cotton cultivars. (In draft).
8. **Ullah, M. I**., H. M. U. Masood. 2015. Quantification and Feeding Preference of American bollworm Helicoverpa armigera (hub.) against different Cotton Cultivars. (In draft).
9. **Ullah, M. I.**, A. Mustan. 2015. Charasterization of arthropods associated with citrus plantations using various collection techniques. (In draft).
10. **Ullah, M. I**., A. Mustan. 2015. relative abundance and biodiversity of arthropods in various citrus cultivars. (In draft).
11. Khaliq, A., U. Farooq, M. Javed, **M. I. Ullah** and M. H. Ahmad. 2015. Pollution threat to honey bee survival- A review. (In draft).

**Proceedings:**

1. Kamran, M., M. Afzal, A. B. M. Raza, M. H. Bashir, and **M. I. Ullah**. 2009. Identity of a species of *Genus Pollux* (Erytthraeidae) from Pakistan. Proceedings of 1st international workshop in taxonomic acarology. June, 3-5. Ankara, Turkey.
2. Afzal, M., M. Kamran, A. B. M. Raza, M. H. Bashir and **M. I. Ullah**. 2009. First record of Genus Abrolophus (Acari: Erythraeidae) from Pakistan. Proceedings of 1st international workshop in taxonomic acarology. June, 3-5. Ankara, Turkey.
3. Burhan, M., N. A. Chaudhary and **M.I. Ullah**. 2007. Important diseases threatening citrus in Punjab. Proceedings of National conf. on citrus fruits. pp 25-26.
4. **Ullah, M. I**., N. A. Chaudhary and M. Burhan. 2007. Threatening pests in citrus orchards of Sargodha. Proceedings of National conf. on citrus fruits. pp 35-36.

**Book Chapter(s):**

1. W. W. Hoback, **M. I. Ullah**, F. Mustafa and J. E. Foster. Integrated Pest Management, Past, Present, and Future in a Changing World. In: Sustainable insect pest management (In review)
2. I. Mustafa and **M. I. Ullah**. Fisheries (In review)
3. **Ullah, M. I**., Insect behavior (Accepted) Higher Education Commission of Pakistan.

**Submitted Posters and Presentations:**

1. Zahid, S. M. A., **M. I. Ullah**, M. Afzal, M. Arshad, M. Saqib and J. Molina-Ochoa. 2016. Toxicity of Botanicals and New Chemistry Insecticides on *Aenasius Bambawalei* Hayat (Encyrtidae: Hymenoptera); A Parasitoid of Cotton Mealybug. International Entomological Congress, University of Agriculture, Faisalabad, December 16-18 2016.
2. Arshad, M., **M. I. Ullah**, S. M. A. Zahid, M. Saqib, Y. Iftikhar, T. Abbas and M. Afzal. 2016. Quantification of Foliar Damage Caused by Insect Herbivory Using Smart Phone Application. International Entomological Congress, University of Agriculture, Faisalabad, December 16-18 2016.

1. Ahmad, K., A. Rehman, M. Yasin, **M. I. Ullah**, M. Arshad and M. A. Bakar. 2016. Effect of bio-fertilizers and chemical fertilizers on different wheat (*Triticum aestivum* L.) cultivars. 8th National and 2nd International Wheat Conference. University of Sargodha, Nov 29-30 2016.
2. Mahmood, S. U., M. H. Bashir, M. A. Khan, M. Afzal and **M. I. Ullah**. 2016. Impairment of fatty acids profile of stored wheat, *Triticum aestivum* L. in response to acarid mite, *Rhizoglyphus tritici* (Acari: Acaridae). 8th National and 2nd International Wheat Conference. University of Sargodha, Nov 29-30 2016.
3. **Ullah, M. I**., M. Arshad, M. Afzal, A. Khaliq, M. Saqib, S. Khalid, Y. Iftikhar and Z. Hussain. 2016. Seasonal Variations in the Occurrence of Citrus Leafminer, *Phyllocnistis citrella* Stainton, on *Citrus reticulata* in three Tehsils of District Sargodha, Pakistan. The International Congress of Entomology, Orlando, Florida USA, September 24-30, 2016.
4. Afzal, M., A. Khaliq, **M. I. Ullah**, M. H. Ahmad, M. Saqib and A. Ahmad. 2016. Commercial Fumigant Fitness and Bio-pesticides Potential Against Resistant Strains of Quarantine Insect Pests. The International Congress of Entomology, Orlando, Florida USA, September 24-30, 2016.
5. Afzal, M., **M. I. Ullah**, G. Murtaza, Y. Iftikhar, S. Khalid and M. Arshad. 2016. Efficacy and Synergistic Effect of Plant Extracts against Red Pumpkin Beetle, *Aulacophora faveicollis* Lucas under Laboratory Conditions. 9th International Conference on Plant Protection in the Tropics to August, 3-5, 2016 Kuching, Sarawak, Malaysia.
6. **Ullah, M. I**., M. Afzal, M. Arshad, Y. Iftikhar, T. Abbas, H. M. Aatif and M. Saqib. 2016. Impairment of physiological parameters of different citrus cultivars in response to citrus leafminer, *Phyllocnistis citrella* Stainton feeding. 9th International Conference on Plant Protection in the Tropics to August, 3-5, 2016 Kuching, Sarawak, Malaysia.
7. **Ullah, M. I**., M. Afzal, M. I. Khan, F. Mustafa and Y. Iftikhar. 2015. Response of American bollworm, *Helicoverpa armigera* (Hubner) Feeding in Relation to Water Status of Cotton. The Annual Meeting of the Entomological Society of America, Minneapolis, MN. USA. November, 15-18, 2015.
8. Arshad, M., R. R. Khan., **M. I. Ullah** and M. Afzal. 2015. Efficacy of different Insecticides against Aphid, *Lipaphis erysimi* (Kalt.) on Camelina sativa (L.) Crantz in Pakistan. The Annual Meeting of the Entomological Society of America, Minneapolis, MN. USA. November, 15-18, 2015.
9. **Ullah, M. I**., M. Arshad., M. Khan, M. Afzal and Y. Iftikhar. 2015. Damage potential of *Spodoptera litura* (Fabricius) in various citrus nursery plantations. The Annual Meeting of the Entomological Society of America, Minneapolis, MN. USA. November, 15-18, 2015.
10. Afzal, M., **M. I. Ullah**, K. Khan and M. Arshad. 2015. Photosynthesis: A plant physiological parameter to evaluate the damage caused by American bollworm, *Helicoverpa armigera* (Hübner) in cotton cultivars. The Annual Meeting of the Entomological Society of America, Minneapolis, MN. USA. November, 15-18, 2015.
11. **Ullah, M. I**., M. Afzal, U. Masood and M. Aatif. 2015. Quantification and Feeding Performance of American bollworm, *Helicoverpa armigera* (Hub.) Against Different Cotton Cultivars. XVIII international Plant Protection Congress, Berlin Germany, August 24-27, 2015.
12. Afzal, M., **M. I. Ullah**, A. Mustan and A. B. Bakar. 2015. Biodiversity and Relative Abundance of Arthropods in Citrus Cultivars Using Various Collection Techniques. XVIII international Plant Protection Congress, Berlin Germany, August 24-27, 2015.
13. **Ullah, M. I**., A. Mustan, F. Mustafa, M. Afzal, A. B. M. Raza and Y. Iftikhar. 2014. Characterization and abundance of arthropods associated with various citrus cultivars in Sargodha, Pakistan. The Annual Meeting of the Entomological Society of America, Portland, OR. USA. November, 16-19, 2014.
14. Afzal, M., M. Z. Haq, **M. I. Ullah**. 2014. Quantitative losses in stored wheat grain caused by khapra beetle, *Trogoderma granarium* Everts (Coleoptera: Dermestidae). The Annual Meeting of the Entomological Society of America, Portland, OR. USA. November, 16-19, 2014.
15. Afzal, M., M. Z. Haq, **M. I. Ullah**, F. Mustafa. 2014. Estimation of qualitative losses caused by *Trogodema granarium* Everts (Coleoptera: Dermestidae) in stored wheat grains. The Annual Meeting of the Entomological Society of America, Portland, OR. USA. November, 16-19.
16. Mustafa, F., **M. I. Ullah** and N. Mehmood. 2014. Estimation of injury levels of Spodoptera sp. (Noctuidae: Lepidoptera) against hybrid variety of eggplant (*Solanum lycopersicum*). The Annual Meeting of the Entomological Society of America, Portland, OR. USA. November, 16-19.
17. Mustafa, F., **M. I. Ullah**, W. W. Hoback, K. M. Farnsworth-Hoback, J. E. Foster, S. T. Kamble. 2014. Switchgrass photosynthetic responses to simulated insect defoliation differs during drought. North Central Branch, Entomological Society of America, 68th Annual meeting. Des Moines Iowa, USA. March 9-12.
18. **Ullah, M. I**., M. L. Brust, F. Mustafa, K. M. Kneeland, W. W. Hoback, S. T. Kamble and J. E. Foster. 2012. A study of aedeagal and genetic variation among Host-specific forms of *Melanoplus bowditchi* (Orthoptera: Acrididae). The Annual Meeting of the Entomological Society of America, Knoxville, TN. USA November, 11-14.
19. **Ullah, M. I**., F. Mustafa, M. L. Brust, W. Hoback and K. M. Farnsworth-Hoback. 2012. Rangeland grasshoppers (Orthoptera: Acrididae) consume less than their actual damage: A study to examine the clipping behavior in grasshoppers. North Central Branch, Entomological Society of America, 67th Annual meeting, Lincoln, NE, USA. June 3-6, 2012.
20. **Ullah, M. I**., M. L. Brust, W. W. Hoback, K. M. Farnsworth-Hoback. 2011. Ecoregion level distributions for common Nebraska rangeland grasshoppers (Orthoptera: Acrididae). North Central Branch, Entomological Society of America, 66th Annual meeting. Minneapolis, MN, USA. March 13-16, 2011.
21. Mustafa, F., **M. I. Ullah**, R. Mitchell, W. W. Hoback, J. E. Foster. 2012. Switchgrass (*Panicum virgatum* L.) biomass response to simulated insect defoliation. North Central Branch, Entomological Society of America, 67th Annual meeting, Lincoln, NE, USA. June 3-6, 2012.
22. Mustafa, F., **M. I. Ullah**, K. M. Kneeland, T. A. Courdan, D. W. Stanley, W. W. Hoback and J. E. Foster. 2012. The Assessment of Genetic Variability among Spined Soldier Bug (Pentatomidae: Hemiptera) Populations. The Annual Meeting of the Entomological Society of America, Knoxville. TN, November, 11-14.
23. Mustafa, F., W. W. Hoback and **M. I. Ullah**. 2011. Grasshopper herbivory reduces leaf area and photosynthesis in wild sunflower, *Helianthus annus* L. North Central Branch, Entomological Society of America, 66th Annual meeting. Minneapolis, MN, USA. March 13-16, 2011.

**Conferences/Symposium/Workshops**

1. 8th National and 2nd International Wheat Conference. University of Sargodha, Nov 29-30 2016.
2. XXV International Congress of Entomology, Orlando, FL. USA, September, 24-30, 2016.
3. SPS Compliance through Vegetable Supply Chain, COMSATS, Institute of Information Technology, Vehari. Phytosanitary Risk Management Program in Pakistan CAB international, Central and West Africa. Aug 31- Sep 1 2016.
4. Sustainable agriculture production in arid climate. College of Agriculture, BZU Bahardur shah campus, Layyah. May 12, 2016.
5. Rural advisory services in Pakistan in the scenario of information communication technologies (ICTs). International symposium, University College of Agriculture, Pakistan January 13, 2016.
6. The Annual Meeting of the Entomological Society of America, Minneapolis, MN. USA, November, 15-18, 2015.
7. Residual effects of chemicals used on fruits and vegetables. November 12, 2015. University College of Agriculture, University of Sargodha.
8. Workshop on “Role of Imaging techniques in plant disease diagnosis” University College of Agriculture, Pakistan May 05, 2015.
9. XVIII international Plant Protection Congress, Berlin Germany, August 24-27, 2015
10. The Annual Meeting of the Entomological Society of America, Knoxville, TN. USA, November, 11-14, 2012.
11. North Central Branch, Entomological Society of America 67th Annual meeting, Lincoln, NE, USA. June 3-6, 2012.
12. North Central Branch, Entomological Society of America, 66th Annual meeting. Minneapolis, MN, USA, March 13-16, 2011.
13. International conference on integrated pest management of fruits and vegetables. November 30, 2013.University of Agriculture, Faisalabad Pakistan.
14. 2nd Roshan Watan agri expo and conference, January 21-22 2014, University of Sargodha Pakistan.
15. International symposium on Strategies for overcoming food security problems through utilization of rain-fed areas, March 26-28 University of Sargodha, Sargodha.
16. International Wheat Conference, September 24, 2013. University of Sargodha, Sargodha.

**Local Language Entomological Articles:**

1. Care of citrus plants in nursery. September 2006 Zirat Nama
2. Medicinal importance of citrus plants. HortiMag 2007
3. Important insects/pests of citrus and their control. Jan 2007 Behter Zindagi.
4. Citrus Mealy Bug and its control. Feb 2007 Zirat Nama.
5. Beans. <http://agrinfobank.wordpress.com/2014/01/16/beans/>
6. Pistachu. <http://agrinfobank.com/pistachio/>

**Manuals/Guide developed for Citrus Industry:**

1. GLOBALGAP® for the certification of citrus against GLOBALGAP® standards for Al-Rafique Enterprises, District Sargodha.
2. Quality Management System for the certification of citrus against GLOBALGAP® standards for Al- Rafique Enterprises, District Sargodha.
3. HACCP for the HACCP certification for Al-Rafique Enterprises District Sargodha.

**Radio Talks:**

1. Insect pests of citrus, Campus FM radio 98.2. University of Sargodha dated: January 2, 2014.
2. Safety precautions of applying insecticides on crops. Campus FM radio 98.2 University of Sargodha February, 2014.
3. Citrus fruit fly: control and management. Campus FM radio 98.2 University of Sargodha, May 29,2014.
4. Biological control of citrus pests

**INTERNATIONAL PARTICIPATION**

1. Oral presentation at XXV International Congress of Entomology, Orlando, FL. USA, September, 24-30, 2016.
2. Oral and Poster presentation at 63rd Annual Meeting of the Entomological Society of America, Minneapolis, MN. USA, November, 15-18, 2015.
3. Oral presentation at XVIII international Plant Protection Congress, Berlin Germany 2015.
4. Poster presentation at NCB-ESA 2011, Minneapolis, MN, USA.
5. Oral presentation at NCB-ESA 2012, Lincoln, NE, USA.
6. Poster Presentation at ESA annual meeting 2012, Knoxville, TN. USA.
7. Poster Presentation at NCB-ESA 2014, Des Moines Iowa. USA

**AWARDS/HONORS**

1. Moderator "Graduate Student Oral Competition: Morphology, Systematics, and Phylogeny: Hymenoptera
2. Served as a judge in the Insect Control, Ecology and Ecosystems section of the graduate student poster competition at the upcoming ESA annual meeting in Minneapolis, MN. Nov 15-18 2015.
3. HEC travel grant to participate in IPPC 2014, Berlin Germany.
4. PARB travel grant to participate in ESA 2015 annual meeting, Minneapolis USA.
5. First place as first author in graduate student poster presentation at Entomological Society of America, Annual meeting. Knoxville, TN, November 11-14, 2012.
6. 2nd place as first author in graduate student poster presentation at Entomological Society of America, Annual meeting. Knoxville, TN, November 11-14, 2012.
7. 2nd place as first author in graduate student poster presentation at North Central Branch, Entomological Society of America, 66th Annual meeting. Minneapolis, MN, March 13-16, 2011.
8. 3rd place as co-author in poster presentation at NCB-ESA, Minneapolis, MN, March 13-16, 2011
9. Government of Pakistan Overseas fellowship for Ph. D. Degree

**PROFESSIONAL MEMBERSHIPS**

1. Graduate Student Association Representative (2011-12)
2. Royal Entomological Society UK (2016 to present)
3. Entomological Society of America (2010 to date)
4. The International Association for the Plant Protection Sciences (IAPPS) (2012 to date)
5. Bruner Entomological Society, University of Nebraska. (2009 to 2012)
6. Pakistan Entomological Society. (2003 to date)
7. Pakistan Agricultural Scientist Society (PAAS). (2008 to date)

**ADMINISTRATIVE DUTIES**

1. In charge Entomological laboratory, University of Sargodha
2. Internship coordinator BS Agriculture (Entomology) 2014.
3. Undergraduate coordinator

**TRAININGS AND COURSES**

1. Three months training of Faculty Development Professional Program by Higher Education Commission of Pakistan (HEC).
2. Three months introductory computer courses about Agriculture, 1997.
3. Training on Hygiene and Project auditing processes by BVC® -Spain in Pakistan Oct, 2007.
4. Training of lead auditor on Hazards Analyses and Critical Control Point (HACCP) by BVC® -Spain in Pakistan during 9th Sept. 2007.
5. Training on up-gradation on Global Gap standards- Fruits and vegetables by BVC® -Spain in Pakistan on June 21, 2008.

**PROFESSIONAL TRAININGS AND SKILLS**

1. Molecular Biology
2. Handle with expertise DNA extraction and purification, PCR, Gel electrophoresis
3. Lab Management

**STATISTICAL PACKAGES**

•PAUP •Popgene • Arlequin • NTSys • SAS • JMP • Statistics • SPSS

**ADVISOR**

**PhD, Major Advisor:**

1. ***Muhammad Arshad:*** Host specific variations in citrus leafminer, *Phyllocnistis citrella* Stainton herbivory, damage and effects on net photosynthetic rates of different citrus cultivars (In progress)

**PhD, Co-Advisor:**

1. ***Muhammad Hannan Ahmad:*** Host Preference, Damage Potential and Control of Red Pumpkin Beetle, *Aulacophora foveicollis* L. on cucurbits (In progress).
2. ***Abdul Khaliq:*** Synergistic Effect of Bio-Pesticides with Phosphine and Development of Pest Management Module for the control of quarantine pests (In progress)

**MS: Major Advisor:**

1. ***Abdul Mustan (2013-15)*:** Characterization and biodiversity of citrus arthropods associated with citrus plantation in Sargodha district. (Completed)
2. ***Khursheed Ahmed Khan (2013-15):*** American Bollworm, *Helicoverpa armigera* (Hub.) herbivory and its effects on the Photosynthetic Rates in Different Cotton Cultivars (Completed)
3. ***Muhammad Imran Khan (2013-15):*** Feeding Performance of American Bollworm, *Helicoverpa armigera* (Hub.) in relation to ater Status of Different Cotton Cultivars (Completed)
4. ***Hafiz Umer Masood (2013-15):*** Quantification and Feeding Preference of American bollworm, *Helicoverpa armigera* (Hub.) Against Different Cotton Cultivars (Completed)
5. ***Ghulam Murtaza (2014-16):*** Laboratory evaluation of efficacy and synergistic effect of plant extracts against red pumpkin beetle, *Aulacophora Faveicollis* Lucas (Coleoptera: Chrysomelidae) (In progress).
6. ***Adeel Haider (2015-17):*** Predatory behavior of green lacewing against Asian citrus psyllid, *Diaphorina citri* Kuwayama and the citrus leafminer, *Phyllocnistis citrella* Stainton (In progress).
7. ***Aqeel Haider (2015-17):*** Infestation response of Citrus leafminer, *Phyllocnistis citrella* Stainton to synthetic and organic fertilization in citrus at nursery level (In progress).

**MS: Co: Advisor:**

1. ***Shaukat Abbas (2013-15):*** Determination of resistance developed in citrus psylla against some synthetic insecticides(Completed)
2. ***Shamshad Ahmad (2013-15):*** Determination of resistance in mosquito against few commercially available pyrethroids. (Completed)
3. ***Muhammad Afzal (2013-15):*** Surveillance of resistance to chemical insecticides in different populations of dengue fever vector, *Aedes aegypti* (Linnaeus). (Completed).
4. ***Muhammad Irfan Nawaz (2013-15):*** Insecticidal effects of some plant essential oils on citrus mealybug *Planococcus citri* (Risso) (Homoptera: Pseudococcidae). (Completed).
5. ***Rashid Minhas (2015-17):*** Efficacy and synergistic effect of fruit waste derived phytochemicals against Khapra beetle, *Trogoderma granarium* Everts (Coleoptera: Dermestidae) in stored grain wheat

**RESEARCH GRANTS**

1. Characterization of Arthropod Community Associated with Citrus in Sargodha district, May 14, 2014 (Principal Investigator). 4.9 Million.
2. Evaluation and Establishments of Switchgrass (*Panicum virgatum* L.) Yield Potential in Pakistan. Submitted PSF-NSLP March 18, 2014 (Co-Principal Investigator).
3. IPM Strategies and their Validation on Cucurbit Vegetables. 7.6 million ALP-PARC

**REFRENCES**

**John E. Foster, Ph.D. Steven R. Skoda, Ph.D.**

Professor Emeritus Research Leader, Supervisory Research Entomologist

Department of Entomology USDA-ARS-KBUSLIRL Screwworm Research Unit

University of Nebraska-Lincoln USA 2700 Fredericksburg Road

[jfoster1@unl.edu](mailto:jfoster1@unl.edu) Kerrville, TX 78028 USA

[john.foster@unl.edu](mailto:john.foster@unl.edu) Office Phone: (830)792-0334

Ph: 402-472-8686; 402-560-9747 Cellular: (830)285-8318

FAX: (830)792-0302

[Steve.Skoda@ars.usda.gov](mailto:Steve.Skoda@ars.usda.gov)

**Prof. Dr. Muhammad Afzal, PhD William Wyatt Hoback**

Dean, Faculty of Agriculture Assistant Professor

University of Sargodha, Sargodha Pakistan Oklahoma State University Stillwater OK USA

Office Phone: 0092 48 9239143 Dept. of Entomology and Plant Pathology

Cellular: 0092 300 7634963

chafzal64@yahoo.com

[dean.agri@uos.edu.pk](mailto:dean.agri@uos.edu.pk)