

CURRICULUM VITAE

Name	PROF. DR. WAQAS WAKIL Fellow of Royal Entomological Society (UK) Fulbright Scholar (USA) Ambassador - Society for Invertebrate Pathology (USA)
Father's Name	Abdul Wakil
Address	Professor (Entomology), Institute of Agricultural Sciences, University of the Punjab, Quaid-e-Azam Campus, Lahore, Pakistan E-mail: wakil.iags@pu.edu.pk; waqaswakeel@hotmail.com; arid1972@yahoo.com

EDUCATION

2008 - 2013	Ph.D. (Doktor der Naturwissenschaften, Dr. rer. nat.), Faculty of Geography/Geosciences, Trier University, Trier, Germany (magna cum laude - Very Good) Thesis: Developing novel approaches for the control of stored-grain insect pests: laboratory assays of insecticide, diatomaceous earths and entomopathogenic fungi and their implementation on small-scale farms in Pakistan
1999 - 2004	Ph.D. Agricultural Entomology, Department of Agricultural Entomology, University of Agriculture, Faisalabad, Pakistan Thesis: Management of Helicoverpa armigera (Hüb.) in chickpea (<i>Cicer arietinum</i> L.) under rainfed areas of Punjab, Pakistan
1996 - 1998	Master of Science (Hons.) Agricultural Entomology, Department of Agricultural Entomology, University of Agriculture, Faisalabad, Pakistan Thesis: Evaluation of different insecticides against rice stem borers and rice leaf folder
1991 - 1996	Bachelor of Science (Hons.) Agriculture (Agri. Entomology), Department of Agricultural Entomology, University of Agriculture, Faisalabad, Pakistan

CAREER PATH

Since 05/2019	Professor	Entomology - Institute of Agricultural Sciences, University of the Punjab, Lahore, Pakistan
2007 - 2019	Assistant Professor	Department of Entomology, University of Agriculture, Faisalabad, Pakistan
2014 - 2015	Fulbright Scholar	USDA-ARS Laboratories, Robert Holley Center, Cornell University Campus, Ithaca, NY, USA Research: Entomopathogenic fungi for management of insect pests of greenhouse and nursery crops
2012	Research Associate	National Center for Biotechnology and Genetic Engineering (BIOTEC), Bangkok, Thailand Research: ¹ Separation of <i>Bacillus thuringiensis</i> proteins using SDS PAGE electrophoresis and their use against <i>Aedes aegypti</i> ² Endophytic relationship between the fungus <i>Beauveria bassiana</i> and the cassava plant
2011	Visiting Researcher	Institute of Microbiology, Chinese Academy of Sciences, Beijing, China Research: Characterization of entomopathogenic fungi based both on morphological and molecular basis (ITS region)
2008	Visiting Professor	Department of Biological Sciences, University of Alberta, Edmonton,

		Canada Research: Use of entomopathogenic fungi against various field and stored grain insect pests
2008	Researcher	Institute of Biogeography, Trier University, Trier, Germany Research: Genetic biodiversity of insect pests with allozyme electrophoresis
2001 - 2006	Lecturer	Department of Entomology, University of Arid Agriculture, Rawalpindi, Pakistan
1998 - 2001	SPO	RB Avari Enterprises (Pvt.) Limited, Faisalabad, Pakistan

ACTIVE GRANTS

As Lead Principal Investigator

2017-2020	Microbial based pest management program for tephritid fruit flies. Funded by US-Pakistan Center for Advanced Studies in Agriculture and Food Security (USPCAS-AFS), USAID, USA and Punjab Agricultural Research Board, Punjab, Pakistan -In Progress-
2017-2020	Post-harvest grain losses management for food security. Agricultural Linkages Program, Pakistan Agriculture Research Council, Islamabad, Pakistan -In Progress-
2016-2019	Entomopathogens and other bio-rational strategies for the control of red palm weevil (RPW) <i>Rhynchophorus ferrugineus</i> (Olivier) (Coleoptera: Curculionidae) on date palms. Funded by Higher Education Commission, Islamabad, Pakistan -In Progress-
2018 - 2021	Biocontrol potential of insect pathogens for sustainable management of fruit flies. Funded by Higher Education Commission, Islamabad -In Progress-
2018 - 2021	Prospects for microbial control agents against onion thrips. Funded by Higher Education Commission, Islamabad -In Progress-

AWARDS AND FELLOWSHIPS

Since 2010	Fellow of Royal Entomological Society, UK
Since 2019	Member (Ambassador - Membership Committee), Society for Invertebrate Pathology, USA
2018	Best Book Award 2015/2016, Higher Education Commission, Government of Pakistan, Islamabad, Pakistan for the book titled Sustainable Pest Management in Date Palm: Current Status and Emerging Challenges. Springer International Publishing, Switzerland - 2015"
2016	Chris Lomer Award, Society for Invertebrate Pathology, USA
Since 2006	Approved Ph.D. Supervisor Higher Education Commission, Islamabad, Pakistan http://sc.hec.gov.pk/aphds/submit.asp?supid=1551

PROFESSIONAL SERVICE AND MEMBERSHIPS

2019	Member Organizing Committee, International Entomological Congress-2019: Conversing Emerging Entomological Challenges and their Solutions, 08-10 April, 2019, Department of Entomology, University of Agriculture, Faisalabad, Pakistan
2016	Member Organizing Committee, International Entomological Congress (One Exclusive Day on Current Scenario and Management of Pink Bollworm), 16-18 December, 2019, Department of Entomology, University of Agriculture, Faisalabad, Pakistan
2016	Member Organizing Committee, International Congress of Entomology (ICE), 25-30 September, 2016, Orlando, Florida, USA
2016	Krawczyk, G., W. Wakil (Symposium Co-organizer). Technological Innovations and Integrated Pest Management. In: International Congress of Entomology (ICE), 25-30 September, 2016, Orlando, Florida, USA

Member	Membership Committee, Society for Invertebrate Pathology, USA
Member	Entomological Society of America, USA
Member	Pakistan Entomological Society, Pakistan
Reviewer for	Journal of Proteome Research, Biological Control, Journal of Invertebrate Pathology, Journal of Pest Science, Journal of Stored Products Research, Pest Management Science, Biocontrol Science and Technology, Journal of Insect Science, Data in Brief, Turkish Journal of Entomology, Archives of Phytopathology and Plant Protection, Pakistan Entomologist, Journal of the Entomological Research Society

ADVISING AND SUPERVISION

As PhD Advisor	03 (2019); 02 (2018); 03 (2017); 02 (2016), 04 (2015); 02 (2014); 01 (2012)
As PhD Committee Member	01 (2019); 01 (2018); 01 (2017), 02 (2016), 01 (2015), 02 (2014), 02 (2014), 02 (2014), 03 (2013), 02 (2012), 01 (2010)
As MSc (Hons)/MPhil Advisor	11 (2019); 05 (2018); 06 (2017), 05 (2016), 03 (2015), 05 (2014), 06 (2013), 06 (2012), 07 (2011), 04 (2010), 04 (2009), 01 (2008), 01 (2005)
As MSc (Hons) Committee Member	06 (2019); 04 (2018); 03 (2017), 08 (2016), 08 (2015), 04 (2013), 06 (2012), 05 (2011), 05 (2010), 03 (2009), 03 (2008)

TEACHING EXPERIENCE

Graduate level	
Ent-705	Chemical Ecology of Insects (2h)
Ent-706	Insect Pathology (4h)
Ent-715	Insect Nutrition (2h)
ENT-717	Biological Control of Insect Pests (3h)
Ent-719	Special Problem (1h)
Ent-720	Seminar (1h)
Undergraduate level	
Ent-302	Introductory Agricultural Entomology (3h)
Ent-311	Vertebrate Pests and their Management (3h)
Ent-312	Insecticides and Environmental Pollution (3h)
Ent-315	Entomological History and Literature (2h)
Ent-405	Insecticides and their Application (4h)
Ent-407	Range and Forest Entomology (3h)
Ent-411	Preparation of Research Project and Scientific Writing (2h)
Ent-412	Internship and External Evaluation (10h)
Ent-413	Pest Management and Phytosanitary Measures (3h)
Ent-415	Post-harvest Protection of Cereals (2h)

RESEARCH PUBLICATIONS (International or with Impact Factor)

- Athanassiou, C.G., T.W. Phillips, W. Wakil. 2019. Biology and control of the khapra beetle, *Trogoderma granarium*, a major quarantine threat to global food security. *Annual Review of Entomology*. 64: 131-148
- Yasin, M., W. Wakil, M.U. Ghazanfar, M.A. Qayyum, M. Tahir, G.O. Bedford. 2019. Virulence of entomopathogenic fungi *Beauveria bassiana* and *Metarrhizium anisopliae* against red palm weevil, *Rhynchophorus ferrugineus* (Olivier). *Entomological Research*. 49: 3-12

- Tahir, T., W. Wakil, A. Ali, S.T. Sahi. 2019. Pathogenicity of Beauveria bassiana and Metarhizium anisopliae isolates against larvae of the polyphagous pest Helicoverpa armigera. *Entomologia Generalis*. 38(3): 225-242
- Wakil, W., M. Usman, S. Gulzar. 2019. Efficacy of insect pathogenic fungi on mortality and development of Rhynchophorus ferrugineus (Olivier). *Arab Journal of Plant Protection*. 37(2). -In Press-
- Wakil, W., M. Yasin, M.A. Qayyum, M.U. Ghazanfar, A.M. Al-Sadi, G.O. Bedford, Y.J. Kwon. 2018. Resistance to commonly used insecticides and phosphine fumigant in red palm weevil, Rhynchophorus ferrugineus (Olivier) in Pakistan. *PLoS One*. 13(7): e0192628
- Maqsood, S., M. Afzal, M.A. Aqueel, W. Wakil, H.A.A. Khan. 2018. Comparative evaluation of selected biorational insecticides against Spodoptera litura (Fabricius) on cauliflower. *Pakistan Journal of Zoology*. 50(5): 1645-1652
- Wakil, W., M. Yasin, D. Ilan-Shapiro. 2017. Effects of single and combined applications of entomopathogenic fungi and nematodes against Rhynchophorus ferrugineus (Olivier) (Coleoptera: Curculionidae). *Scientific Reports*. 7: 5971. DOI:10.1038/s41598-017-05615-3
- Yasin, M., W. Wakil, E.S Hamadit, G. Bedford, T.A. Miller. 2017. Potential role of microbial pathogens in control of red palm weevil (Rhynchophorus ferrugineus) - A Review. *Entomological Research*. 47(4): 219-234
- Younas, A., W. Wakil, Z. Khan, M. Shaaban, S.M. Prager. 2017. The efficacy of Beauveria bassiana, jasmonic acid and chlorantraniliprole on larval populations of Helicoverpa armigera in chickpea crop ecosystems. *Pest Management Science*. 73(2): 418-424
- Maqsood, S., M. Afzal, M.A. Aqueel, A.B.M. Raza, W. Wakil, M.H. Babar. 2017. Efficacy of nuclear polyhedrosis virus and flubendiamide alone and in combination against Spodoptera litura F. *Pakistan Journal of Zoology*. 49(5): 1783-1788
- Yasin, M., P.F. Rugman-Jones, W. Wakil, R. Stouthamer. 2016. Mitochondrial DNA variation among populations of red palm weevil, Rhynchophorus ferrugineus (Olivier), from Pakistan. *Journal of Insect Science*. 16(1): 1-7. DOI: 10.1093/jisesa/iew065
- Ashraf, M., W. Wakil, F. Hafeez, M. Farooq. 2016. Persistence and insecticidal efficacy of a diatomaceous earth formulation, Inert-PMS, in stored wheat grain against Cryptolestes ferrugineus (Stephens), Liposcelis paeta Pearman, Rhyzopertha dominica (F.) and Tribolium castaneum (Herbst). *Turkish Journal of Entomology*. 40(2): 107-115
- Maqsood, S., M. Afzal, A. Aqueel, A.B.M. Raza, W. Wakil. 2016. Influence of weather factors on population dynamics of armyworm, Spodoptera litura F. on cauliflower, Brassica oleracea in Punjab. *Pakistan Journal of Zoology*. 48(5): 1311-1315
- Wakil, W., T. Schmitt. 2015. Field trials on the efficacy of Beauveria bassiana, diatomaceous earth and imidacloprid for the protection of wheat grains from four major stored grain insect pests. *Journal of Stored Products Research*. 64: 160-167
- Qayyum, M.A., W. Wakil, M.J. Arif, S.T. Sahi, C.A. Dunlap. 2015. Infection of Helicoverpa armigera by endophytic Beauveria bassiana colonizing tomato plants. *Biological Control*. 90: 200-207
- Wakil, W., M.U. Ghazanfar, M. Yasin, Y.J. Kwon. 2015. Efficacy of Metarhizium anisopliae combined with diatomaceous earth against Sitophilus oryzae (Coleoptera: Curculionidae) under laboratory conditions. *Revista Colombiana de Entomología*. 41(1): 81-86
- Qayyum, M.A., W. Wakil, M.J. Arif, S.T. Sahi. 2015. Bacillus thuringiensis and nuclear polyhedrosis virus for the enhanced bio-control of Helicoverpa armigera. *International Journal of Agriculture and Biology*. 17: 1043-1048
- Qayyum, M.A., W. Wakil, M.J. Arif, S.T. Sahi, N.A. Saeed, D.A. Russell. 2015. Multiple resistances against formulated organophosphates, pyrethroids, and newer-chemistry insecticides in populations of Helicoverpa armigera (Lepidoptera: Noctuidae) from Pakistan. *Journal of Economic Entomology*. 108: 286-293
- Ali, K., W. Wakil, K. Zia, S.T. Sahi. 2015. Control of Earias vittella (Lepidoptera: Noctuidae) by Beauveria bassiana along with Bacillus thuringiensis. *International Journal of Agriculture and Biology*. 17: 773-778
- Wakil, W., M.U. Ghazanfar, M. Yasin. 2014. Naturally occurring entomopathogenic fungi infecting stored grain insect species in Punjab, Pakistan. *Journal of Insect Science* 14(182): DOI: 10.1093/jisesa/ieu044

- Kucerová, Z., W. Wakil, M. Yasin, Q. Yang, Zhi-Hong Li, J. Hromádková, I. Kalinovi , G. Opit, C. Lienhard. 2014. Morphological and molecular characterization of a Pakistan strain of the stored-product pest *Liposcelis paeta* (Insecta: Psocodea: Liposcelididae) with observations on the variability of the head surface sculpture in liposcelidids. *Journal of Stored Products Research.* 57: 12-23
- Riasat, T., W. Wakil, M. Yasin, Y.J. Kwon. 2013. Mixing of *Isaria fumosorosea* with enhanced diatomaceous earth and bitterbarkomycin for control of *Rhyzopertha dominica*. *Entomological Research.* 43: 215-223
- Wakil, W., T. Riasat, J.C. Lord. 2013. Effects of combined thiamethoxam and diatomaceous earth on mortality and progeny production of four Pakistani populations of *Rhyzopertha dominica* (Coleoptera: Bostrichidae) on wheat, rice and maize. *Journal of Stored Products Research.* 52: 28-35
- Bing-Da Sun, Amanda-Juan Chen, Wei-Wei Gao, Yu-Guang Zhou, M.U. Ghazanfar, W. Wakil. 2013. A new endophytic ascomycete associated with the medicinal plant, *achyranthes Bidentata blume* (Amaranthaceae). *Pakistan Journal of Botany.* 45(1): 319-323
- Wakil, W., M.U. Ghazanfar, T. Riasat, M.A. Qayyum, S. Ahmad, M. Yasin. 2013. Effects of interactions among *Metarhizium anisopliae*, *Bacillus thuringiensis* and chlorantraniliprole on the mortality and pupation of six geographically distinct *Helicoverpa armigera* field populations. *Phytoparasitica.* 41(2): 221-234
- Wakil, W., M.U. Ghazanfar, T. Riasat, Y.J. Kwon, M.A. Qayyum, M. Yasin. 2013. Occurrence and diversity of entomopathogenic fungi in cultivated and uncultivated soils in Pakistan. *Entomological Research.* 43: 70-78
- Saleem, M.W., S. Ahmed, W. Wakil, S.T. Sahi. 2013. Resistance to thrips, *Thrips tabaci* in Bt cotton genotypes in Punjab, Pakistan, based on population dynamics and plant morpho-chemical properties. *International Journal of Agriculture and Biology.* 15: 331-336
- Wakil, W., T. Riasat, M. Ashfaq. 2012. Residual efficacy of thiamethoxam, *Beauveria bassiana* (Balsamo) Vuillemin, and diatomaceous earth formulation against *Rhyzopertha dominica* F. (Coleoptera: Bostrichidae). *Journal of Pest Science.* 85: 341-350
- Wakil, W., M.U. Ghazanfar, F. Nasir, M.A. Qayyum, M. Tahir. 2012. Insecticidal efficacy of *Azadirachta indica*, Nucleopolyhedrovirus and chlorantraniliprole single or combined against field populations of *Helicoverpa armigera* Hübner (Lepidoptera: Noctuidae). *Chilean Journal of Agricultural Research.* 72: 52-62
- Wakil, W., M.U. Ghazanfar, Y.J. Kwon, S.-ul-Islam, K. Ali. 2012. Toxicity of *Paecilomyces lilacinus* blended with non-conventional agents to control cotton thrips (*Thrips tabaci* Lind.) (Insecta: Thysanoptera: Thripidae). *African Journal of Microbiology Research.* 6(3): 526-533
- Wakil, W., M.U. Ghazanfar, Y.J. Kwon, E. Ullah, S.-ul-Islam, K. Ali. 2012. Testing *Paecilomyces lilacinus*, diatomaceous earth and *Azadirachta indica* alone and in combination against cotton aphid (*Aphis gossypii* Glover) (Insecta: Homoptera: Aphididae). *African Journal of Biotechnology.* 11(4): 821-828
- Fiaz, M., A. Hameed, M.-ul-Hasan, W. Wakil. 2012. Efficacy of plant extracts on some cotton (*Gossypium hirsutum*) pests: *Amrasca biguttula* biguttula Ishida and thrips *Thrips tabaci* Lindeman. *Pakistan Journal of Zoology.* 44(1): 277-283
- Wakil, W., T. Riasat, M.U. Ghazanfar, Y.J. Kwon, F.A. Shaheen. 2011. Aptness of *Beauveria bassiana* and enhanced diatomaceous earth (DEBBM) for control of *Rhyzopertha dominica* F. *Entomological Research.* 41(6): 233-241
- Wakil, W., M.U. Ghazanfar, S.T. Sahi, Y.J. Kwon, M.A. Qayyum. 2011. Effect of modified meridic diet on the development and growth of tomato fruitworm *Helicoverpa armigera* (Lepidoptera: Noctuidae). *Entomological Research.* 41(3): 88-94
- Riasat, T., W. Wakil, M. Ashfaq, S.T. Sahi. 2011. Effect of *Beauveria bassiana* mixed with diatomaceous earth on mortality, mycosis and sporulation of *Rhyzopertha dominica* on stored wheat. *Phytoparasitica.* 39: 325-331
- Ghazanfar, M.U., W. Wakil, S.T. Sahi. 2011. Induction of resistance in chickpea (*Cicer arietinum* L.) against *Ascochyta rabiei* by the application of chemicals and plant extracts. *Chilean Journal of Agricultural Research.* 71: 52-62
- Wakil, W., M.U. Ghazanfar, Y. J. Kwon, M.A. Qayyum, F. Nasir. 2010. Distribution of *Helicoverpa armigera* Hübner (Lepidoptera: Noctuidae) in tomato fields and its relationship to weather factors. *Entomological Research.* 40 (6): 290-297

- Ahmed, S., W. Wakil, H.M.S. Saleem, M. Shahid, M.U. Ghazanfar. 2010. Effect of iron fortified wheat flour on the biology and physiology of red flour beetle, *Tribolium castaneum* (Herbst). International Journal of Insect Science. 2: 29-33
- Ghazanfar. M.U., S.T. Sahi, N. Javid, W. Wakil. 2010. Response of advanced lines of chickpea against chickpea blight disease. Pakistan Journal of Botany. 42(5): 3423-3430
- Sahi, S.T., M.U. Ghazanfar, M. Afzal, W. Wakil, A. Habib. 2010. Influence of inoculation with *Ascochyta lenti*s on the mineral contents (Na, Ca, Mg, Zn, Cu and Fe) of susceptible and resistant lines of lentil (*Lenes culinaris* Medik). Pakistan Journal of Botany. 42(1): 375-382
- Wakil, W., M.U. Ghazanfar. 2010. Entomopathogenic fungus as a biological control agent against *Rhyzopertha dominica* F. (Coleoptera: Bostrichidae) on stored wheat. Archives of Phytopathology and Plant Protection. 43(12): 1236-1242
- Wakil, W., M. Ashfaq, M.U. Ghazanfar, T. Riasat. 2010. Susceptibility of stored-product insects to enhanced diatomaceous earth. Journal of Stored Products Research. 46: 248-249
- Wakil, W., F. Mustafa, M.U. Ghazanfar. 2009. *Tyrophagus fatimii* n. sp. a new stored grain mites of wheat godowns (Astigmata Acaridae) from Punjab, Pakistan. Acarologia, 2009, XLIX, 3-4: 181-183
- Wakil, W., M. Ashfaq, M.U. Ghazanfar, M. Afzal, T. Riasat. 2009. Integrated management of *Helicoverpa armigera* (Hübner) in chickpea under rainfed areas of Punjab, Pakistan. Phytoparasitica. 37: 415-420
- Wakil, W., M. Ashfaq, Y.J. Kwon, M.U. Ghazanfar. 2009. Trends in integrated pest management strategies for the control of *Helicoverpa armigera* (Hübner) caterpillars on chickpea (*Cicer arietinum* L.). Entomological Research. 39(1): 84-88
- Ahmed S., W. Wakil, D. Mantle, R.M. Wilkins, Y.J. Kwon. 2008. Characterization of alanyl aminopeptidase from insecticide resistant and susceptible strains of *Musca domestica* L. Entomological Research. 38(3): 195-201
- Hasan, M., M. Sagheer, E. Ullah, F. Ahmad, W. Wakil. 2006. Insecticidal activity of different doses of *Acorus calamus* oil against *Trogoderma granarium* (Everts). Pakistan Journal of Agricultural Sciences. 43(1-2): 55-58
- Hasan, M., W. Wakil, F. Bashir. 2006. False spider mites (Acari: Tenuipalpidae) from northern Punjab, Pakistan. International Journal of Acarology. 32(4): 383-386
- Hasan, M., W. Wakil, F. Bashir. 2005. Response of two wheat varieties to *Tribolium castaneum* (Hbst.), *Rhyzopertha dominica* (F.) and *Sitotroga cerealella* (Oliv.). Pflanzenschutzberichte. 61(2): 27-32
- Hasan, M., W. Wakil, F. Bashir, Y.J. Kwon. 2005. *Brevipalpus allii*, a new species of the Genus *Brevipalpus* from Punjab – Pakistan. Acarologia. 45(4): 291-294
- Hasan, M., W. Wakil, F. Bashir, Y.J. Kwon. 2005. Descriptions of two new species of the Genus *Brevipalpus* Donnadieu (Acari: Tenuipalpidae) Donnadieu from Punjab, Pakistan. Journal of Acarological Society of Japan. 14(1): 13-18
- Naeem, M., W. Wakil, N. Iqbal. 2005. Effects of inorganic fertilizers, farm yard manure and effective microorganism compost on corn leaf aphid and their predators. Bangladesh Journal of Agricultural Research. 30(1): 1-7
- Hasan, M., W. Wakil, F. Bashir. 2004. Mites of the genus *Brevipalpus* Donnadieu (Acari: Tenuipalpidae) from Soan area of Punjab, Pakistan. Systematic and Applied Acarology. 9: 103-107
- Hasan, M., W. Wakil, F. Bashir. 2004. Genus *Tenuipalpus* (Acarina: Tenuipalpidae) from central Punjab, Pakistan. Systematic and Applied Acarology. 9: 97-101
- Hasan, M., W. Wakil, F. Bashir. 2004. Two new species of the Genus *Tenuipalpus* (Acari: Tenuipalpidae) from Punjab, Pakistan. Journal of Acarological Society of Japan. 13(1): 41-45
- Hassan, M., M. Ashfaq, L. Yun-rui, W. Wakil. 2004. A new species of the Genus *Brevipalpus* (Acari: Tenuipalpidae) from mango tress at Shujaabad (Multan), Pakistan. Journal of Southwest Agricultural University. 26(2): 177-179
- Hassan, M., M. Ashfaq, L. Yun-rui, W. Wakil, F. Bashir. 2004. Record of two new species of the Genus *Cenopalpus* (Acari: Tenuipalpidae) from Punjab-Pakistan and a study of their phenetic affinities. Journal of Southwest Agricultural University. 26(1): 47-50
- Hasan, M., F. Bashir, W. Wakil. 2003. A new species of sub-group *Eriophyoides* (*Tenuipalpus*: Tenuipalpidae: Acarina) from Punjab - Pakistan. Acarologia. 43(4): 359-361

- Hasan, M., F. Bashir, W. Wakil. 2003. Two new species of false spider mites of the Genus *Brevipalpus* Donnadeiu (Acarina - Tenuipalpidae) from Punjab - Pakistan. *Acarologia*. 43(4): 353-358
- Hasan, M., G.M. Sahi, W. Wakil, Y. Imanat. 2003. Aphid transmission of sugarcane mosaic virus (SCMV). *Pakistan Journal of Agricultural Sciences*. 40(1-2): 74-76
- Hasan, M., F. Bashir, W. Wakil. 2002. The relative susceptibility of different varieties of wheat to *Rhyzopertha dominica* (F.). *Pakistan Journal of Agricultural Sciences*. 39(2): 143-145
- Hasan, M., W. Wakil, A. Rasool. 2001. Comparative efficacy of some traditional and newly introduced insecticides against *Helicoverpa armigera* on cotton. *Pakistan Journal of Agricultural Sciences*. 38(3-4): 47-48
- Wakil, W., M. Hasan, R. Akbar, A. Gulzar. 2001. Evaluation of different insecticides against rice stem borer and rice leaf folder. *Pakistan Journal of Agricultural Sciences*. 38(3-4): 49-50

RESEARCH PUBLICATIONS (National)

- Wakil, W., M. Yasin. 2013. First report of rusty grain beetle and psocids infesting stored wheat in Punjab, Pakistan. *International Journal of Agriculture and Applied Sciences*. 5(2): 39-40
- Subhani, M.N., S.T. Sahi, A. Rehman, W. Wakil. 2013. Sources of genetic resistance against the late blight of potato in Pakistan. *Peak Journal of Biotechnology*. 1(1): 1-6
- Wakil, W., M. Yasin, M.A. Qayyum, M. Asim. 2012. Combined toxicity of *Metarhizium anisopliae* with sublethal doses of chlorpyrifos, fipronil and chlorantraniliprole against *Periplaneta americana* (Dictyoptera: Blattidae). *Pakistan Entomologist*. 34(1): 59-63
- Zain-ul-Abdin, M.J. Arif, A. Suhail, M.D. Gogi, M. Arshad, W. Wakil, S.K. Abbas, A. Altaf, H. Shaina, A. Manzoor. 2012. Molecular analysis of the venom of mealybug parasitoid *Aenasius bambawalei* Hayat (Hymenoptera: Encyrtidae). *Pakistan Entomologist*. 34(2): 189-193
- Arif, M.J., M.D. Gogi, M. Arshad, A. Ashraf, A. Suhail, Zain-ul-Abdin, W. Wakil, A. Nawaz. 2012. Host-plants mediated population dynamics of cotton mealybug, *Phenacoccus solenopsis* Tinsley (Hemiptera: Pseudococcidae) and its parasitoid, *Aenasius bambawalei* Hayat (Hymenoptera: Encyrtidae). *Pakistan Entomologist*. 34(2): 179-184
- Wakil, W., M. Ashfaq, F. Niaz, M. Israr, M. Yasin, M. Tahir. 2011. Evaluation of *Grevillea robusta*, diatomaceous earth and Kobiol for the control of mung dhora (*Callosobruchus chinensis* L.) (Insecta: Coleoptera: Bruchidae). *Pakistan Entomologist*. 33(2): 105-111
- Ashfaq, M., Saif-ur-Rehman, M. Sagheer, W. Wakil. 2011. Efficacy of some plant extracts against rice borers and leaf folder in integration with biocontrol agents (*Chrysoperla carnea* and *Trichogramma chilonis*). *Pakistan Entomologist*. 33(2): 81-85
- Ghazanfar, M.U., S.T. Sahi, W. Wakil. 2010. Effect of *Ascochyta* blight on the agronomic characters of selected chickpea cultivars/lines. *Pakistan Journal of Phytopathology*. 22(2): 113-119
- Ghazanfar, M.U., S.T. Sahi, W. Wakil, Z. Iqbal. 2010. Evaluation of various fungicides for the management of late blight of potato (*Phytophthora infestans*). *Pakistan Journal of Phytopathology*. 22(2): 83-88
- Ghazanfar, M.U., W. Wakil, S.T. Sahi, S.I.Yasin. 2009. Influence of various fungicides on the management of rice blast disease. *Mycopath*. 7(1): 29-34
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