

## **Dr. Arfan Ahmed Gilal**

**Ph.D. Malaysia**

### **Associate Professor**

Department of Entomology,  
Sindh Agriculture University, Tando Jam.



### **Permanent Address:**

P/o Khanwahan Taluka Kandiaro Distt: Naushehro Feroze, Sindh.

### **Mailing Address:**

Quarter No. A-7, Sindh Agriculture University Colony-Old, Tando Jam.

**Mobile:** +92300-8311490; 92-3161384990 **e-mail:** aagilal@sau.edu.pk

---

---

Dr. Arfan Ahmed Gilal is a dedicated, enthusiastic, and hardworking teacher and researcher and believes in learning as a lifelong process. Dr. Gilal received his B.Sc. (Agri.) Hons. and M.Sc. (Agri.) Hons. degrees in Entomology from Sindh Agriculture University, Tando Jam with distinction in 2003 and 2005, respectively. He got a job in banking sector and worked as Agricultural Finance Officer, from 2005. Despite the overburden of Bank's job, he continuously thrived for more education and learning, he never gave up to his dreams, for his personnel and professional growth. He completed a prestigious banking diploma from Institute of Bankers, Pakistan in the year 2011. He also tried for a teaching position at university level and has been trying for foreign scholarships to pursue his Ph.D. Due to his keen interest, efforts and hard work, he got a foreign scholarship for higher studies under the project "Strengthening and development of Sindh Agriculture University, Tando Jam".

Dr. Gilal earned his Ph.D. degree in the field of Entomology from Universiti Putra Malaysia and worked on the research project "**Eco-biological aspects of invasive apple snails, Pomacea spp. in rice fields, Peninsular Malaysia**". After completing his Ph.D. in 2015, Dr. Gilal joined his parent institute as Lecturer, Department of Entomology, Faculty of Crop Protection, Sindh Agriculture University Tando Jam on 8<sup>th</sup> January 2016 and now working as Associate Professor since August 19, 2024.

Apart from three years Ph.D. and two years M.Sc. (Agri.) Hons. research experience, he has published more than 55 research papers in various national / international recognized journals. Dr. Gilal has also presented his research work in various international conferences. He got the opportunity to participate in various professional trainings and workshops. He is also Co-PI in TWO of the HEC-NRPU funded projects entitled "**Characterization of Irrigation Water and Its Impact on Performance of Insecticides**" and "**Genetic characterization, evaluation, and selection of onion (Allium cepa) germplasm entries for resistance to onion thrips (Thrips tabaci)**" No: 14472/Sindh/NRPU/R&D/HEC/2017". Recently, he has also organized Quiz Competitions and workshops on "**Managing the Research Journey**" and "**Pesticides formulations and application**" to encourage the involvement of the young students in various extra-curriculum activities. He also has authored two books entitles "**A Handbook on Guava**" and "**A Handbook on Ber**".

Dr. Gilal is looking forward for the professional development and effective contribution in the economic world with emphasize in the field of Entomology.

## **EDUCATION**

<b><u>Degree</u></b>	<b><u>Institution</u></b>	<b><u>Division/Grade</u></b>	<b><u>Year</u></b>
Ph.D. (Entomology) “Eco-biological aspects of invasive apple snails, <i>Pomacea</i> spp. in rice fields, Peninsular Malaysia”	Universiti Putra Malaysia	1 <sup>st</sup>	2015
M.Sc. (Agri) Hons. (Entomology) “Abundance of Coccinellid predators on insect pests of cotton”	SAU Tando Jam	1 <sup>st</sup>	2005
B.Sc. (Agri) Hons. (Entomology)	SAU Tando Jam	1 <sup>st</sup>	2003
H.S.C. (Pre-Medical)	BISE Sukkur	A	1997
S.S.C. (Science)	BISE Sukkur	A-1	1994

## **PROFESSIONAL COURSES/DIPLOMA**

JAIBP	Institute of Bankers, Pakistan	2011
-------	--------------------------------	------

## **ACHIEVEMENTS**

- 1<sup>ST</sup> Class 2<sup>nd</sup> Position in B.Sc. (Agri) Hons.
- Higher Education Commission of Pakistan Scholarship for “Strengthening and development of Sindh Agriculture University, Tando Jam”.
- HEC recognized Supervisor in the field of Agriculture.

## **EXPERIENCE**

1. **Teaching:** Associate Professor, **Since 19.08.2024**  
Department of Entomology, FCPT, SAU, Tando Jam.
2. **Teaching:** Assistant Professor, **16.02.2017 to 18.08.2024**  
Department of Entomology, FCPT, SAU, Tando Jam.
3. **Teaching:** Lecturer, **08-01-2016 to 15.02.2017**  
FCPT, SAU, Tando Jam.
4. **Research:**
  - a. Ph.D. (Entomology) **2012-2015**
  - b. M.Sc. (Entomology) **2004-2005**
5. **Others:** Bank Alfalah Limited **2005-2012**

## **PROFESSIONAL MEMBERSHIP**

- Entomological Society of Sindh (ESS)

## **PROFESSIONAL RESPONSIBILITIES**

- Focal Person, Quiz Society, Students-Teachers Engagement Program (STEP), Sindh Agriculture University, Tando Jam.
- Member, Management Committee, Bukhari Model High School, Sindh Agriculture University, Tando Jam.
- Member, Boards of Studies, Department of Entomology, Sindh Agriculture University, Tando Jam.
- Member, Masjid Committee(s), Old Colony, Sindh Agriculture University, Tando Jam.
- Treasurer- Entomological Society of Sindh (ESS).
- Associate Editor- Journal of Applied Research in Plant Sciences (JOARPS)

## **RESEARCH PROJECT(S) COMPLETED**

1. **Co-PI** of the project "**Characterization of Irrigation Water and Its Impact on Performance of Insecticides**" No: 7567/Sindh/NRPU/R&D/HEC/2017". PI- Dr. Fahad Nazir Khoso. **Project amount Rs.1.971 million**

## **ONGOING**

1. **Co-PI** of the project "**Genetic characterization, evaluation, and selection of onion (*Allium cepa*) germplasm entries for resistance to onion thrips (*Thrips tabaci*)**" No: 20-14472/NRPU/R&D/HEC/2021". PI- Dr. Tanweer Fatah Abro. **Project amount Rs.2.906 million**

## **ACCEPTED as PI**

1. "**Identification, damage, and smart agriculture practices for management of mango midges in Sindh**", 10<sup>th</sup> Batch of ALP-PARC

## **ACCEPTED as Co-PI**

1. "**Distribution and chemical management of Tomato Leafminer *Tuta absoluta* in tomato growing areas of lower Sindh**", submitted to Sindh Higher Education Commission under Sindh Research Support Program 2024-25.

## **SUBMITTED as PI**

1. "**Identification, damage, and smart agriculture practices for management of mango midges in Sindh**", 10<sup>th</sup> Batch of ALP-PARC

## **RESEARCH SEMINARS CONDUCTED**

1. Quiz Competition under the title "**A Glance to Aptitude Test for Entomologist**", organized at Faculty of Crop Protection, Sindh Agriculture University, Tando Jam, Sindh on September 19, 2019.
2. Two-day's workshop on "**Managing the Research Journey**", organized at Faculty of Crop Protection, Sindh Agriculture University, Tando Jam, Sindh on February 12 & 13, 2020.
3. Quiz Competition organized under "**Entomological Society of Sindh**" at Faculty of Crop Protection, Sindh Agriculture University, Tando Jam, Sindh on October 21, 2021.

4. One day workshop on “**Hands on Training- Pesticide Formulations and Applications**” organized under “*Entomological Society of Sindh*” at Faculty of Crop Protection, Sindh Agriculture University, Tando Jam, Sindh on November 3, 2022.
5. Quiz Competitions organized under “*Student-Teacher Engagement Program-STEP*”, Sindh Agriculture University, Tando Jam at Faculty of Crop Protection, Sindh Agriculture University, Tando Jam, Sindh during October 2 to 5, 2023.
6. Grand Finale of Quiz Competitions organized under “*Student-Teacher Engagement Program-STEP*”, Sindh Agriculture University, Tando Jam at AM Sheikh Auditorium, Sindh Agriculture University, Tando Jam, Sindh on 07.03.2024.

### GOOGLE SCHOLAR PROFILE

	All	Since 2019
Citation	325	275
h-index	10	8
i10-index	10	8

### LIST OF PUBLICATIONS

#### Books

1. **Gilal, A. A.**, Talpur, M. A., and Khoso, F. N. 2021. A handbook on Guava. 2023. Finline Art, Sindh Agriculture University, near Gymkhana, Tandojam. ISBN No. 978-969-23157-2-0.
2. Talpur, M. A., **Gilal, A. A.**, and Khoso, F. N. 2021. A handbook on ber. 2021. Finline Art, Sindh Agriculture University, near Gymkhana, Tandojam. ISBN No. 978-969-23157-1-3.

#### Book Chapter

1. Mokhtar, A. S., **Gilal, A. A.**, & Muhamad, R. (2024). Invasive Apple Snails (Ampullariidae): Threats and Management. In *Advances in Tropical Crop Protection* (pp. 263-284). Cham: Springer Nature Switzerland.

Research Paper	HEC category / Impact Factor	Year
1. Soomro, M. H., Mari, J. M., Nizamani, I. A., <b>Gilal, A. A.</b> , Kubar, M.I., Panhwar, Z. and Rajput, K. (2024). Synchronization of synthetic insecticides with aggregation pheromone against <i>Rhynchorphorus ferrugineus</i> (Olivier 1790). <i>Pakistan Journal of Scientific and Industrial Research</i> , 67B(1), 1-7.	Y	2024
2. Gabol, A. H., L. B. Rajput, J.-U.-D. Hajano, G. H. Jatoi, <b>A. A. Gilal</b> , G. Q. Mangrio, M. M. Koondhar, and G. Fareed. 2014. Feeding preference of <i>Tuta absoluta</i> on solanaceous host plants under field conditions. <i>International Journal of Forest Sciences</i> , 4, 65-74	Y	2024
3. Malik, J. A., Nizamani, I. A., Khanzada, M. A., Jatoi, G. H., & <b>Gilal, A. A.</b> (2024). Performance of Synthetic Insecticides	Y	2024

against Asian Citrus Psyllid <i>Diaphorina citri</i> Kuwayama in Lemon Orchard. <i>Journal of Phytobiology</i> , 03 (02), 57-64.		
4. Perzada, A. A., <b>Gilal, A. A.</b> , Rajput, L. B., Sahto, J. G. M., & Koondhar, N. (2023). Effectiveness of high temperatures against <i>Callosobruchus maculatus</i> (Coleoptera: Bruchidae) adults. <i>Agricultural Sciences Journal</i> , 5(2), 19-27.	Y	2023
5. Gabol, A. H., <b>A.A. Gilal</b> , L. B. Rajput, J. D. Hajano, M.I. Mastoi, G. Q. Mangrio and J. G. M. Sahito. (2023). Varietal preferences of leafminer, <i>Tuta absoluta</i> on tomatoes in field. <i>Pakistan Journal of Agricultural Research</i> , 36(3), 290-296.	Y	2023
6. Waris, M., Abro, M. A., Hajano, J. U., & Gilal, A. A. (2023). Post-harvest eco-friendly management of <i>Penicillium expansum</i> causing blue mold of onion. <i>Pakistan Journal of Phytopathology</i> , 35(2), 293-297. DOI:10.33866/phytopathol.035.02.1036	Y	2023
7. Mangi, S., Khoso, F. N., <b>Gilal, A. A.</b> , and Sheikh, M. J. (2023). Farmers' knowledge, attitude, and practice regarding water quality in the performance of insecticides. <i>Proceedings of the Pakistan Academy of Sciences: B. Life and Environmental Sciences</i> , 60(4), 661-668. <a href="https://doi.org/10.53560/PPASB(60-4)913">https://doi.org/10.53560/PPASB(60-4)913</a>	Y	2023
8. Rajput, K., <b>Gilal, A. A.</b> , Rajput, L. B., Hajano, J., Magsi, S., Sahto, J. G. M., Panhwar, Z., and Jatoi, G. H. (2023). Evaluation of plant essential oils against <i>Sitophilus oryzae</i> Linnaeus (Coleoptera: Curculionidae) under laboratory conditions. <i>Plant Protection</i> , 07(03), 417-426. DOI: 10.33804/pp.007.03.4786	Y	2023
9. Panhwar, Z., Gilal, A. A., Rajput, L. B., Hajano, J., Memon, S. A., Koondhar, N., and Kubar, M. I. (2023). Pesticidal potential of essential oils against <i>Callosobruchus maculatus</i> Fab. (Coleoptera: Bruchidae) under laboratory conditions. <i>Punjab University Journal of Zoology</i> , 38(2), 201-210.	X	2023
10. Mangrio, G. Q., Gilal, A. A., Rajput, L. B., Hajano, J. D. & Gabol, A. H. (2023). Performance of pheromone and light traps in monitoring and management of tomato leafminer, <i>Tuta absoluta</i> (Lepidoptera: Gelechiidae). <i>Journal of the Saudi Society of Agricultural Sciences</i> , 22, 288–297. <a href="https://doi.org/10.1016/j.jssas.2023.01.004">https://doi.org/10.1016/j.jssas.2023.01.004</a>	X	2023
11. Gabol, A. H. Gilal, A. A., Rajput, L. B., Hajano, J. D. & Mangrio, G. Q. (2023). Distribution of Tomato Leafminer, <i>Tuta absoluta</i> (Lepidoptera: Gelechiidae) in Sindh, Pakistan. <i>Proceedings of the Pakistan Academy of Sciences: B. Life and Environmental Sciences</i> , 60(2), 283-291.	X	2023
12. Rind, S. H., <b>Arfan, A. G.</b> , Lubna, B., Nizamani, I. A. (2023). Efficacy of indigenous botanical pesticides against <i>Thrips tabaci</i> on onion. <i>Pakistan Journal of Scientific and Industrial Research</i> , 66B(2), 125-131	Y	2023
13. Khanzada, B., <b>Arfan, A. G.</b> , Solangi, B. K. and Nizamani, I. A. (2023). Evaluation of low temperatures and gamma radiations on parasitization and development of <i>Cotesia</i>	Y	2023

<i>flavipes</i> (Cameron) against <i>Chilo infuscatellus</i> (Snellen). <i>Pakistan Journal of Scientific and Industrial Research</i> , 66B(3), 292-301.		
14. Khaskheli, M. S., Hajano, J. D., Nizamani, Z. A., Gilal, A. A., Jatoi, G. H., Khan, M. A., and Khan, A. A. (2023). Chemotherapy of tomato mosaic disease using Ribavirin and 8-Azaguanine. <i>Plant Protection</i> , 07(01), 93-100. DOI: 10.33804/pp.007.01.4514	Y	2023
15. Un-Nisa, Z., Saddozai, S., Mastoi, M.I., <b>Gilal, A.A.</b> , Achakzai, W.M. and Kubar, M.I., (2022). Feeding potential and development of <i>Chrysoperla carnea</i> (Neuroptera: Chrysopidae) on <i>Paracoccus marginatus</i> (Hemiptera: Pseudococcidae) under no-choice conditions. <i>Journal of Agricultural Sciences – Sri Lanka</i> , 17(3), 416–424. DOI: <a href="http://doi.org/10.4038/jas.v17i3.9921">http://doi.org/10.4038/jas.v17i3.9921</a>	0.83 Y	2022
16. Soomro, M. H., Mari, J. M., Nizamani, I. A., <b>Gilal, A. A.</b> , and Kubar, M.I. (2022). Synergistic Effect of Food Baits on the Performance of Aggregation Pheromone Ferrolure+ against <i>Rhynchophorus ferrugineus</i> (Olivier 1790). <i>Punjab University Journal of Zoology</i> , 37(2): 129-134. <a href="https://dx.doi.org/10.17582/journal.pujz/2022.37.2.129.134">https://dx.doi.org/10.17582/journal.pujz/2022.37.2.129.134</a>	X	2022
17. Perzada, A.A., <b>Gilal, A.A.</b> , Rajput, L.B., Sahito, J.G.M., and Kubar, M.I. (2022). Distribution and damage potential of pulse beetles, <i>Callosobruchus</i> spp. (Coleoptera: Bruchidae) in Sindh, Pakistan. <i>Proceedings of the Pakistan Academy of Sciences: B. Life and Environmental Sciences</i> , 59(3), 9-22.	X	2022
18. <b>Gilal, A.A.</b> , L.B. Rajput, M.I. Kubar, G.M. Kaleri, T. Zahra, M.I. Mastoi and Z. Rasheed. (2022). Life table studies of invasive <i>Spodoptera frugiperda</i> (Lepidoptera: Noctuidae) on maize under laboratory conditions. <i>Pakistan Journal of Agricultural Research</i> , 35(2): 259-265. <a href="https://dx.doi.org/10.17582/journal.pjar/2022/35.2.259.265">https://dx.doi.org/10.17582/journal.pjar/2022/35.2.259.265</a>	Y	2022
19. Soomro, M. H., Mari, J. M., Nizamani, I. A. and <b>Gilal, A. A.</b> (2022). Performance of Ferrolure+ pheromone in the red palm weevil, <i>Rhynchophorus ferrugineus</i> (Coleoptera: Dryophthoridae) management in date palm growing areas of Sindh, Pakistan. <i>Journal of the Saudi Society of Agricultural Sciences</i> , 21(2), 114-124. <a href="https://doi.org/10.1016/j.jssas.2021.07.004">https://doi.org/10.1016/j.jssas.2021.07.004</a>	X	2022
20. Imran, M., Lubna, B., Kubar, M. I., Rind, S. H., Sahto, J. G. M., <b>Gilal, A. A.</b> , Mangi, S. (2021). Efficacy of Indigenous Crude Plant Extracts against Rice Weevil, <i>Sitophilus oryzae</i> L. 1763 (Coleoptera: Curculionidae). <i>Proceedings of the Pakistan Academy of Sciences: B. Life and Environmental Sciences</i> , 58(4): 59-65. <a href="http://doi.org/10.53560/PPASB(58-4)687">http://doi.org/10.53560/PPASB(58-4)687</a>	Y	2021
21. Chand, K., F.N. Khoso, <b>A.A. Gilal</b> , A.M. Lodhi and G.M. Jamro. (2021). Hydrochemical evaluation of groundwater suitability for irrigation in lower Sindh, Pakistan. <i>Soil and</i>	Y IF= 0.31	2021

<i>Environment</i> , 40(2): 165-173. <a href="https://dx.doi.org/10.25252/SE/2021/202617">https://dx.doi.org/10.25252/SE/2021/202617</a>		
22. Chand, K., F.N. Khoso, <b>A.A. Gilal</b> , A.M. Lodhi, A.M. Ahmed, G.M. Jamro, S.A. Otho and J.U.D. Hajano. (2021). Characterization of ground water for suitability as insecticide solvent for insect pest management in Lower Sindh, Pakistan. <i>Sarhad Journal of Agriculture</i> , 38(1): 210-220. <a href="https://dx.doi.org/10.17582/journal.sja/2022/38.1.210.220">https://dx.doi.org/10.17582/journal.sja/2022/38.1.210.220</a>	Y	2021
23. Khaskheli, T. Z., Rajput, L. B. Memon, S. A., Dhiloo, K. H., Khaskheli, N., Bhatti, Q. A. and <b>Gilal, A. A.</b> (2021). Repellent potential of medicinal oils against <i>Tribolium castaneum</i> (Herbst) under laboratory conditions. <i>Abasyn Journal of Life Sciences</i> , 4(2): 7-15. <a href="https://dx.doi.org/10.34091/AJLS.4.2.1">https://dx.doi.org/10.34091/AJLS.4.2.1</a>	Y	2021
24. Kubar, M. I., Khoso, F. N., Khatri, I., <b>Arfan, A. G.</b> , and Khuhro, N. A. (2021). Effect of different management strategies on melon fruit fly, <i>Bactrocera cucurbitae</i> (Coquillett) infestation in cucurbit vegetables. <i>Sarhad Journal of Agriculture</i> , 37(3): 915-920. <a href="https://dx.doi.org/10.17582/journal.sja/2021/37.3.915.920">https://dx.doi.org/10.17582/journal.sja/2021/37.3.915.920</a>	Y	2021
25. Khanzada, B., <b>Arfan, A. G.</b> , Solangi, B. K. and Nizamani, I. A. (2021). Effect of morphological characters of indigenous sugarcane varieties on population of <i>Chilo infuscatellus</i> (Snellen) and its parasitoid, <i>Cotesia flavipes</i> (Cameron). <i>Pakistan Journal of Agricultural Research</i> , 34(1): 154-163.	Y	2021
26. <b>Arfan, A. G.</b> and Muhamad, R. (2020). A review on basic biology and ecology of invasive apple snails ( <i>Pomacea</i> spp.) for effective management. <i>Journal of ISSAAS</i> , 26(2): 66-85.	Y	2020
27. <b>Arfan, A. G.</b> , Lubna, B., Faheem, M., Rajput, A., Soomro, J. A., Kunbhar, S., Mirwani, A. S. Zahra, T., Mastoi, G. S. and Sahito, J. G. M. (2020). First Record of Invasive Fall Armyworm ( <i>Spodoptera frugiperda</i> (Smith) (Lepidoptera: Noctuidae)) in Corn Fields of Sindh, Pakistan. <i>Pakistan Journal of Agricultural Research</i> , 33(2): 247-252	Y	2020
28. Chandio, S. A., <b>Gilal, A. A.</b> , Rajput, L. B., Brohi, M. U., Sahto, J. G. M., Bhatti, M. A. and Sheikh, A. (2020). Performance of various trap crops in the management of <i>Thrips tabaci</i> L. in onion crop. <i>Pure and Applied Biology</i> , 9(4): 2476-2481	Y	2020
29. Bhatti, M. A., Rajput, L. B., <b>Gilal, A. A.</b> , Sahito, J. G. M., Brohi, M. U. and Chandio, S. A. (2020). Relative performance of different concentrations of mint ( <i>Mentha longifolia</i> L.) against <i>Tribolium castaneum</i> (Coleoptera: Tenebrionidae) in wheat. <i>Pure and Applied Biology</i> , 9(4): 2470-2475	Y	2020
30. Soomro, M. H., Mari, J. M., Nizamani, I. A. and <b>Arfan, A. G.</b> (2020). Impact of trapping density on the performance of aggregation pheromone against <i>Rhynchorphorus</i>	ISI INDEXED Biological Abstracts   BIOSIS Previews	2020

<i>ferrugineus</i> (Coleoptera: Dryophthoridae). <i>International Journal of Entomology Research</i> , 5(3): 129-132	Zoological Record	
31. Khanzada, B., <b>Arfan, A. G.</b> , Solangi, B. K. and Nizamani, I. A. (2020). Potential of <i>Cotesia flavipes</i> (Cameron) to manage sugarcane stem borer, <i>Chilo infuscatellus</i> (Snellen) under field conditions. <i>International Journal of Biosciences</i> , 17(4): 120-125	ISI INDEXED (Zoological Records)	2020
32. Rind, S. H., <b>Arfan, A. G.</b> , Lubna, B. and Nizamani, I. A. (2020). Screening of indigenous onion varieties of Sindh, Pakistan against <i>Thrips tabaci</i> Lindeman. <i>International Journal of Entomology Research</i> , 5(4): 17-19	ISI INDEXED Biological Abstracts   BIOSIS Previews   Zoological Record	2020
33. Rind, S. H., <b>Arfan, A. G.</b> , Rind, A. H. and Rind, S. A. (2020). Performance of different botanical pesticides against <i>Thrips tabaci</i> L. on cauliflower. <i>Journal of Biodiversity and Environmental Sciences</i> , 17(3): 101-108	ISI INDEXED (Zoological Records)	2020
34. Rind, S. H., <b>Arfan, A. G.</b> , Lubna, B., Nizamani, I. A. (2020). Relative performance of different colored sticky traps against <i>Thrips tabaci</i> L. in onion. <i>International Journal of Biosciences</i> , 17(3): 134-140	ISI INDEXED (Zoological Records)	2020
35. Junejo, G. Q., Khatri, I., <b>Arfan, A. G.</b> , Nizamani, I. A. and Bhatti, I. B. (2019). Recognition of insect pests of chickpea ( <i>Cicer arietinum</i> L.) at Tandojam, Pakistan. <i>Journal of Entomology and Zoology Studies</i> , 7(5): 1219-1223	ISI INDEXED (Zoological Records)	2019
36. Brohi, M. U., Khatri, I., <b>Arfan, A. G.</b> , Zubair, A., Dahri Z. H. and Magssi, I. A. (2019). Insect pests of wheat crop at Tandojam. <i>Journal of Entomology and Zoology Studies</i> , 7(1): 1317-1320	ISI INDEXED (Zoological Records)	2019
37. Abro, T.F., Yusop, M.R., Soomro, Z.A., Baloch, A.W., Shar, P.A., <b>Arfan, A.G.</b> , Chatha, S.H., Qureshi, N.A. and Otho, S.A. (2019). Genome wide analysis of recurrent parent genome recovery in different backcross populations for blast resistance through SSR markers in rice. <i>Pakistan Journal of Botany</i> , 51(6), DOI: <a href="http://dx.doi.org/10.30848/PJB2019-6(25)">http://dx.doi.org/10.30848/PJB2019-6(25)</a>	X (IF =0.80)	2019
38. Mastoi, M. I., Riza, I., Haider, S. M., <b>Arfan, A. G.</b> , Shehzad, A., Zia, A. and Bhatti, A. R. (2019). Feeding potential of adult <i>Menochilus sexmaculata</i> and <i>Coccinella septempunctata</i> on Passionvine mealybug, <i>Planococcus minor</i> eggs and nymphs. <i>Pakistan Journal of Agricultural Research</i> , 32(3): 544-548	Y	2019
39. Lachhman, Khoso, F.N., <b>Arfan, A.G.</b> , Agha, M.A., Hajano, J.U., Khatri, I., Nizamani, I.A., Lodhi, A.M., Ali, A., Rehman, T. and Ahmad, M. (2019). Improving Chemo Taxis Effects of Methyl Eugenol Bait Against Two Fruit Fly Species in Jujube Orchards Located in Tandojam, Pakistan. <i>Journal of the Kansas Entomological Society</i> , 91(3): 229-237	Y (IF = 0.20)	2019



40. Mastoi, M. I., Azura, A. N., Muhamad, R., Idris, A. B., <b>Arfan, A. G.</b> , Javed Khan, Abdul Rauf Bhatti, Ahmed Zia and Ghulam Mustafa Sahito (2018). Efficiency of <i>Acerophagus papayae</i> on different host stage combinations of papaya mealybug, <i>Paracoccus marginatus</i> . <i>Pakistan Journal of Agricultural Sciences</i> , 55(2): 375-379	X (IF = 0.618)	2018
41. Kunbhar, S. Lubna, B.R. <b>Arfan, A.G.</b> , Channa, G.A. and Sahito, J. G. M. (2018). Impact of botanical pesticides against sucking insect pests and their insect predators in brinjal crop. <i>Journal of Entomology and Zoology Studies</i> , 6(2): 83-87	ISI INDEXED (Zoological Records)	2018
42. <b>Arfan A. G.</b> , Soomro, M.H., Mastoi, M. I. and Talpur, M.A. (2017). Performance of aggregation pheromone against red palm weevil at district Khairpur and Sukkur. Pakistan. <i>Pakistan Entomologist</i> , 39(2): 9-12	Y	2017
43. Fazlullah, Mastoi, M. I., Ehsan-ul-Haq, E., Mahmood, T., <b>Arfan, A. G.</b> , Aqsa, A., Bhatti, A. R. and Anjum. S. (2017). Exploration of natural enemy fauna of papaya mealybug, <i>Paracoccus marginatus</i> (Hemiptera: Pseudococcidae) on different host plants at Islamabad Pakistan. <i>Pakistan Entomologist</i> , 39(1): 23-27.	Y	2017
44. Khan, A.B, Panhwar, W.A., Mehmood, S.A., <b>Arfan, A.G.</b> , Ahmed, S. and Halimullah. (2017). Population of <i>Thrips tabaci</i> Lindeman, 1889 in Onion Crop from district Mansehra, Khyber Pakhtunkhwa, Pakistan. <i>Journal of Entomology and Zoology Studies</i> , 5(4): 502-505	ISI INDEXED (Zoological Records)	2017
45. Solangi, B. K., Khoso, F. N., Shafique, M. A., Ahmed, A. M., <b>Arfan, A. G.</b> , Talpur, M. M. A. and Dhiloo, K. H. (2017). Host plant preference of sucking pest complex to different tomato genotypes. <i>Journal of Entomology and Zoology Studies</i> , 5(1): 293-297	ISI INDEXED (Zoological Records)	2017
46. Khoso, F. N., Shah, N. H., Ahmed, A. M., Solangi, B. K., <b>Arfan. A.G.</b> , Mastoi, M. I., Khushk, G. M. (2017). Screening of different varieties of Okra ( <i>Abelmoschus esculentus</i> L.) against sucking insect pests. <i>Journal of Basic and Applied Sciences</i> , 13: 161-165	Y	2017
47. Lubna, B.R., <b>Arfan, A.G.</b> , Bukero, A. and Wahocho, N. A. (2017). Impact of Different Oils as Biopesticide against Sucking Insect Pests in Cotton. <i>Journal of Basic and Applied Sciences</i> , 13: 34-40	Y	2017
48. Rajput, I.A., Syed, T.S., <b>Arfan, A.G.</b> , Ahmed, A.M., Khoso, F.N., Abro, G.H. and Rustamani, M.A. (2017). Effect of different synthetic pesticides against pink bollworm <i>Pectinophora gossypiella</i> (Saund.) on Bt. and non-Bt. Cotton Crop. <i>Journal of Basic and Applied Sciences</i> , 13: 454-458	Y	2017
49. <b>Arfan, A. G.</b> , Muhamad, R., Omar, D., Nor Azwady, A.A. and Manjeri, G. (2016). Sowing methods and water levels influence apple snail's damage to rice and its yield.	W (IF = 2.14)	2017

<i>Experimental Agriculture</i> , 53(4), 528-538. doi: <a href="https://doi.org/10.1017/S0014479716000557">10.1017/S0014479716000557</a>		
50. <b>Arfan, A. G.</b> , Muhamad, R., Omar, D., Nor Azwady, A.A. and Manjeri, G. (2016). Population fluctuation and dispersion patterns of apple snail, <i>Pomacea maculata</i> (Gastropoda: Ampullariidae) in a rice ecosystem. <i>Pertanika Journal of Tropical Agricultural Sciences</i> , 39(3): 343-357.	Y	2016
51. <b>Arfan, A. G.</b> , Muhamad, R., Omar, D., Nor Azwady, A.A. and Manjeri, G. (2016). Foes can be friends: Laboratory trials on invasive apple snails, <i>Pomacea</i> spp. preference to invasive weed, <i>Limnocharis flava</i> (L.) Buchenau compared to rice, <i>Oryza sativa</i> L. <i>Pakistan Journal of Zoology</i> , 48(3): 673-679	Y (IF = 0.750)	2016
52. Memon, S. A., Omar, D., Muhamad, R., Sajap, A. S. Asib, N. and <b>Arfan, A. G.</b> (2016). Comparison of growth parameters of the predator, <i>Chrysoperla nipponensis</i> (Neuroptera: Chrysopidae) reared on natural and ginger based artificial diets. <i>European Journal of Entomology</i> , 113: 387-392	X (IF = 1.050)	2016
53. Syamsul, R.B., Muhamad, R., <b>Arfan, A. G.</b> , and Manjeri, G. (2016). Effectiveness of various plant-based attractant traps against apple snail, <i>Pomacea maculata</i> (Gastropoda: Ampullariidae) in a rice field. <i>Pertanika Journal of Tropical Agricultural Sciences</i> , 39(2): 137-143	Y	2016
54. Munwar, A., Mastoi, M. I., <b>Arfan, A. G.</b> , Shehzad, A., Bhatti, A. R. and Zia, A. (2016). Effect of different mating exposure timings on the reproductive parameters of Papaya Mealybug, <i>Paracoccus marginatus</i> (Hemiptera: Pseudococcidae). <i>Pakistan Entomologist</i> , 38(1): 65-69	Y	2016
55. Sahito, J. G. M., Rustamani, M. A., Abro, G. H. <b>Arfan, A. G.</b> , Khoso, F. N. Lubna, B. Sahito, J. G. M. (2016). Effect of selected insecticides on damage compensation of sucking pests in cotton. <i>Science International</i> , 28(2): 1305-1308	Y	2016
56. Lubna, B.R., <b>Arfan, A.G.</b> , Abro, G. H., Mastoi, M. I., Sahito, J. G. M. and Nizamani, I. A. (2016). Effect of application of micronutrients on the lint quality parameters of cotton. <i>Science International</i> , 28(2): 1295-1298	Z	2016
57. Rajput L. B., <b>Arfan, A. G.</b> Bukero, F. H. Magsi, M. I. Mastoi and A.M. Din. (2016). Populations fluctuation and damage potential of Red flour beetle on different dry fruits under laboratory conditions. <i>Journal of Basic and Applied Sciences</i> , 12: 202-204	Y	2016
58. M. I. Mastoi, A. N. Azura, R. Muhamad, R., A. B. Idris, B. K. Solangi, <b>Arfan, A. G.</b> , M. I. Bhatti and F. N. Khoso. (2016). A report of natural enemies of papaya mealybug, <i>Paracoccus marginatus</i> (Hemiptera: Pseudococcidae) in Peninsular Malaysia. <i>Science International</i> , 28(1): 371-374	Z	2016
59. Lubna, B. R., Nizamani, I. A., Chandio, W. A., Sahito, J. G. M., Qureshi, N. A. and <b>Arfan, A. G.</b> (2015). Influence of environmental factors and natural enemies on population	Z	2015

dynamics of <i>Amrasca biguttula biguttula</i> (Ishida) on sunflower. <i>Pakistan Journal of Entomology</i> , 30 (1): 69-78		
60. <b>Arfan, A. G.</b> , Muhamad, R., Omar, D., Nor Azwady, A.A. and Manjeri, G. (2015). Comparative life cycle studies of <i>Pomacea maculata</i> and <i>Pomacea canaliculata</i> on rice ( <i>Oryza sativa</i> ). <i>Pakistan Journal of Agricultural Sciences</i> , 52(4): 1075-1079	X (IF = 0.618)	2015
61. <b>Arfan A. G.</b> , Sahito, J. G. M., Fahad, N. K., Arain, M. S., Sahito, J. G. M. and Sheikh, M. J. (2015). Abundance of coccinellid predators on insect pests of cotton, <i>Gossypium hirsutum</i> (L). <i>Pakistan Journal of Entomology</i> , 30 (2): 169-172	Z	2015
62. <b>Arfan, A. G.</b> , Muhamad, R., Omar, D., Nor Azwady, A.A. and Manjeri, G. (2015). Effectiveness of an automated digital infrared CCTV multi-camera system in investigating mating and oviposition behavior of apple snails, <i>Pomacea</i> spp. <i>Journal of Entomology and Zoology Studies</i> , 3(4): 254-259.	ISI INDEXED (Zoological Records)	2015
63. Memon, S. A., Omar, D., Muhamad, R., Sajap, A. S. Asib, N. and <b>Arfan, A. G.</b> (2015). Functional responses of green lacewing <i>Chrysoperla nipponensis</i> (Neuroptera: Chrysopidae) reared on natural and herb based artificial diet. <i>Journal of Entomology and Zoology Studies</i> , 3(6): 80-83	ISI INDEXED (ZOOLOGICAL RECORDS)	2015
64. <b>Arfan, A. G.</b> , Muhamad, R., Omar, D., Nor Azwady, A.A. and Manjeri, G. (2014). Distribution of two <i>Pomacea</i> spp. in rice fields of Peninsular Malaysia. <i>Annual Research and Review in Biology</i> , 4: 4123-4136	ISI INDEXED*	2014
65. Mastoi, M. I., Azura, A. N., Muhamad, R., Idris, A. B., <b>Arfan, A. G.</b> , and Ibrahim, Y. (2014). Life table and demographic parameters of Papaya Mealybug, <i>Paracoccus marginatus</i> (Hemiptera: Pseudococcidae) on <i>Hibiscus rosa-chinensis</i> . <i>Science International</i> , 26(5): 2323-2329	Z	2014

## CONFERENCES

1. Brohi, M. U., Talpur, S. A., Khatri, I., **Gilal, A. A.**, and Sultana, R. (2022). Case-bearing leaf beetles (Coleoptera: Chrysomelidae: Cryptocephalinae) of Sindh, Pakistan. *1<sup>st</sup> International Conference on Plant Protection Sciences (ICPSS-2022)*, Faculty of Crop Protection, Sindh Agriculture University, Tandojam, Pakistan. 29-30 March 2022. p. 50.
2. Hussain, Z. Khatri, I., and **Gilal, A. A.** (2022). Impact of packaging material on population of Lesser grain borer *Rhyzopertha dominica* Fabricius (Coleoptera: Bostrichidae) on milled rice. *1<sup>st</sup> International Conference on Plant Protection Sciences (ICPSS-2022)*, Faculty of Crop Protection, Sindh Agriculture University, Tandojam, Pakistan. 29-30 March 2022. p. 53.
3. Rajput, A., Khatri, I., **Gilal, A. A.**, Sultana, R., and Talpur, S. A. (2022). Taxonomy of leaf beetles of subfamily Galerucinae (Coleoptera: Chrysomelidae) from Sindh, Pakistan. *1<sup>st</sup> International Conference on Plant Protection Sciences (ICPSS-2022)*,

Faculty of Crop Protection, Sindh Agriculture University, Tandojam, Pakistan. 29-30 March 2022. p. 76.

4. Soomro, G. S., **Gilal, A. A.**, Rajput, L. B., Nizamani, I. A., Khalil, S. and Huma, Z. (2022). Functional response of *Coccinella septempunctata* (L.) larvae on aphid species. *1<sup>st</sup> International Conference on Plant Protection Sciences (ICPSS-2022)*, Faculty of Crop Protection, Sindh Agriculture University, Tandojam, Pakistan. 29-30 March 2022. p. 96.
5. Soomro, M. H., Mari, J. M., Nizamani, I. A., and **Gilal, A. A.** (2022). Synergistic effect of food baits on the performance of aggregation pheromone Ferrolure+ against *Rhynchophorus ferrugineus* (Oliver 1790). *1<sup>st</sup> International Conference on Plant Protection Sciences (ICPSS-2022)*, Faculty of Crop Protection, Sindh Agriculture University, Tandojam, Pakistan. 29-30 March 2022. p. 97.
6. Thaheem, A. A., Rajput, L. B., **Gilal, A. A.**, Nizamani, I. A., Buriro, M. H. and Ali., H. (2022). Oviposition deterrent potential of botanicals against *Spodoptera frugiperda* (J.E. Smith) (Lepidoptera: Noctuidae) under laboratory conditions. *1<sup>st</sup> International Conference on Plant Protection Sciences (ICPSS-2022)*, Faculty of Crop Protection, Sindh Agriculture University, Tandojam, Pakistan. 29-30 March 2022. p. 104.
7. Buriro, M. H. Rajput, L. B., **Gilal, A. A.**, Nizamani, I. A., Thaheem, A. A., and Ali., H. (2022). Predatory potential of *Coccinella septempunctata* adult sex on aphid species. *1<sup>st</sup> International Conference on Plant Protection Sciences (ICPSS-2022)*, Faculty of Crop Protection, Sindh Agriculture University, Tandojam, Pakistan. 29-30 March 2022. p. 105.
8. Ali., H., **Gilal, A. A.**, Rajput, L. B., Nizamani, I. A., Thaheem, A. A., and Buriro, M. H. (2022). Impact of botanical extracts on oviposition of *Spodoptera frugiperda* (J.E. Smith) (Lepidoptera: Noctuidae) under laboratory conditions. *1<sup>st</sup> International Conference on Plant Protection Sciences (ICPSS-2022)*, Faculty of Crop Protection, Sindh Agriculture University, Tandojam, Pakistan. 29-30 March 2022. p. 106.
9. Huma, Z., Rajput, L. B., Gilal, A. A., Nizamani, I. A., Khalil, S., and Soomro, G. S. (2022). In-vivo performance of synthetic pesticides against *Spodoptera frugiperda* (J.E. Smith) (Lepidoptera: Noctuidae). *1<sup>st</sup> International Conference on Plant Protection Sciences (ICPSS-2022)*, Faculty of Crop Protection, Sindh Agriculture University, Tandojam, Pakistan. 29-30 March 2022. p. 108.
10. Solangi, B. K., Kapri, A. Q., **Gilal, A. A.**, Rind, S. H., and Channa, G. A. (2022). Parasitism performance of *Aenasius bambawalei* on Abutilon mealybug (*Phenacoccus solenopsis*). *1<sup>st</sup> International Conference on Plant Protection Sciences (ICPSS-2022)*, Faculty of Crop Protection, Sindh Agriculture University, Tandojam, Pakistan. 29-30 March 2022. p. 1.
11. Khalil, S., Rajput, L. B., **Gilal, A. A.**, Nizamani, I. A., Khalil, S., Soomro, G. S. and Huma, Z. (2022). Potential of insecticides on mortality and feeding of *Spodoptera frugiperda* (J.E. Smith) (Lepidoptera: Noctuidae) on mazie under lab conditions. *1<sup>st</sup> International Conference on Plant Protection Sciences (ICPSS-2022)*, Faculty of Crop Protection, Sindh Agriculture University, Tandojam, Pakistan. 29-30 March 2022. p. 116.

12. Soomro, M. H., Mari, J. M., Nizamani, I. A., and **Gilal, A. A.** (2022). Synchronization of synthetic insecticides with aggregation pheromone against *Rhynchophorus ferrugineus* (Oliver 1790). *1<sup>st</sup> International Conference on Plant Protection Sciences (ICPSS-2022)*, Faculty of Crop Protection, Sindh Agriculture University, Tandojam, Pakistan. 29-30 March 2022. p. 147.
13. Rashdi, S. M. A. S., **Gilal, A. A.**, Rajput, L. B., Soomro, D. M., and Thaheem, A. A. (2022). Performance of synthetic pesticides against against *Spodoptera frugiperda* (J.E. Smith) (Lepidoptera: Noctuidae) under laboratory conditions. *1<sup>st</sup> International Conference on Plant Protection Sciences (ICPSS-2022)*, Faculty of Crop Protection, Sindh Agriculture University, Tandojam, Pakistan. 29-30 March 2022. p. 156.
14. Dahar, A. R., Otho, S. A., **Gilal, A. A.**, Khaskheli, M. I., Lodhi, A. M., Tunio, A., and Jam, G. M. (2022). Botanical pesticides' potential against *Bemisia tabaci* (Gennadus) and *Amrasca biguttula biguttula* (Ishida) on brinjal. *1<sup>st</sup> International Conference on Plant Protection Sciences (ICPSS-2022)*, Faculty of Crop Protection, Sindh Agriculture University, Tandojam, Pakistan. 29-30 March 2022. p. 157.
15. Rind, S. H., **Gilal, A. A.**, Rajput, L. B., and Nizamani, I. A. (2022). Good Agricultural Practices (GAP) for the management of *Thrips tabaci* in onion. *1<sup>st</sup> International Conference on Plant Protection Sciences (ICPSS-2022)*, Faculty of Crop Protection, Sindh Agriculture University, Tandojam, Pakistan. 29-30 March 2022. p. 317.
16. Tunio, A. R., **Gilal, A. A.**, Rajput, L. B., Nizamani, I. A., Pirzado, A. M., Khanzada, A. A., and Soomro, J. H. (2022). Insect diversity associated with garlic (*Allium sativum* L.). *1<sup>st</sup> International Conference on Plant Protection Sciences (ICPSS-2022)*, Faculty of Crop Protection, Sindh Agriculture University, Tandojam, Pakistan. 29-30 March 2022. p. 320.
17. Kalhoro, B. A., Kubar, M. I., **Gilal, A. A.**, Nizamani, I. A., Ahmed, A. M., and Khuhro, N. A. (2022). Assessment of cue lure persistency for *Bactrocera cucurbitae* (Coq.) in bitter gourd field. *1<sup>st</sup> International Conference on Plant Protection Sciences (ICPSS-2022)*, Faculty of Crop Protection, Sindh Agriculture University, Tandojam, Pakistan. 29-30 March 2022. p. 321.
18. Rind, S. H., **Gilal, A. A.**, Rajput, L. B., and Nizamani, I. A. (2022). Efficacy of indigenous botanical pesticides against *Thrips tabaci* on onion. *1<sup>st</sup> International Conference on Plant Protection Sciences (ICPSS-2022)*, Faculty of Crop Protection, Sindh Agriculture University, Tandojam, Pakistan. 29-30 March 2022. p. 344.
19. Rajput, A., Savera, Rajput, L. B., **Arfan, A.G.**, Shah, S. A., Ali, S., Ahmed, J. and Samad, A. (2020). Performance of various colored sticky traps against insects of maize. *Proceedings of the 40<sup>th</sup> Pakistan Congress of Zoology*, Department of Parasitology, Sindh Agriculture University, Tando Jam, Pakistan. 10-12 March 2020. p. 117.
20. Rind, S. A., **Arfan, A.G.**, Rajput, L. B. and Nizamani, I. A. (2020). Relative performance of different colored sticky traps against *Thrips tabaci* L. on onion. *Proceedings of the 40<sup>th</sup> Pakistan Congress of Zoology*, Department of Parasitology, Sindh Agriculture University, Tando Jam, Pakistan. 10-12 March 2020. p. 126.

21. Zahra, N., Zahra, T., **Arfan, A.G.** and Rajput, L. B. (2020). Comparative damage assessment of pulse beetle *Callasobruchus maculatus* on different pulses in choice conditions. *Proceedings of the 40<sup>th</sup> Pakistan Congress of Zoology*, Department of Parasitology, Sindh Agriculture University, Tando Jam, Pakistan. 10-12 March 2020. p. 128.
22. Chand, K., Khoso, F. N., **Arfan, A.G.** and Lodhi, A. M. (2020). Characterization of carrier water used to prepare insecticides solution against different insect pests. *Proceedings of the 40<sup>th</sup> Pakistan Congress of Zoology*, Department of Parasitology, Sindh Agriculture University, Tando Jam, Pakistan. 10-12 March 2020. p. 133.
23. Abbasi, N. A., Mari, J. M., Khatri, I., Kubar, M. I., **Arfan, A.G.**, Khoso, F. N., Agha, M. A. and Solangi, G. S. (2020). Sub-lethal effects of flubendiamide (BELT™) on adult longevity of *Spodoptera litura* in laboratory. *Proceedings of the 40<sup>th</sup> Pakistan Congress of Zoology*, Department of Parasitology, Sindh Agriculture University, Tando Jam, Pakistan. 10-12 March 2020. p. 151.
24. Perzada, A. A., **Arfan, A.G.**, Rajput, L. B. and Sahito, J. G. M. (2020). Status of pulse beetles, *Callasobruchus* spp. (Coleoptera: Bruchidae) in Sindh, Pakistan. *Proceedings of the 40<sup>th</sup> Pakistan Congress of Zoology*, Department of Parasitology, Sindh Agriculture University, Tando Jam, Pakistan. 10-12 March 2020. p. 191.
25. Junejo, G. Q., Khatri, I., **Arfan, A.G.**, Nizamani, I. A., Ali, S., Narejo, B. and Shah, S. A. (2020). Recognition of insect pests of chickpea (*Cicer arietinum* L.) at Tando Jam, Pakistan. *Proceedings of the 40<sup>th</sup> Pakistan Congress of Zoology*, Department of Parasitology, Sindh Agriculture University, Tando Jam, Pakistan. 10-12 March 2020. p. 282.
26. Kaka, I, Haq, I., **Arfan, A.G.**, Rajput, L. B. and Rasheed, Z. (2020). Feeding preference and population development of *Tribolium castaneum* on different cereals under choice conditions. *Proceedings of the 40<sup>th</sup> Pakistan Congress of Zoology*, Department of Parasitology, Sindh Agriculture University, Tando Jam, Pakistan. 10-12 March 2020. p. 313.
27. Abbasi, N. A., Syed, T. S., Abro, G. H., Lanjar, A. G., Khatri, I., **Gilal, A. A.**, Khoso, F. N. and Solangi, G. S. (2019). Sub-lethal effects of Flubendiamide on larval and pupal development of *Sopdoptera litura* in laboratory. *Proceedings of 4<sup>th</sup> International Conference on Agriculture, Food and Animal Sciences*. January 21-22, 2019, Sindh Agriculture University, Tando Jam, Pakistan. p. 86.
28. Chhajro, M. A., Khoso, F. N., **Gilal, A. A.**, Hajano, J., Agha, M. A., Rehman, T., Lachman and Shah, S. A. (2018). Enhancement of chemotaxis effects of methyl eugenol against fruit fly species in guava orchard. *Proceedings of the 38<sup>th</sup> Pakistan Congress of Zoology*, Department of Zoology, University of Punjab, Lahore, Pakistan. February 27 to March 1, 2018. p. 179.
29. **Arfan, A.G.**, Muhamad, R., Omar, D. and Nor Azwady, A.A. (2017). Influence of irrigation water and snail densities on damage potential of *Pomacea* spp. to rice. *Proceedings of 3<sup>rd</sup> International Conference on Agriculture, Food and Animal*

- Sciences*. January 10-11, 2017, Sindh Agriculture University, Tando Jam, Pakistan. p. 86.
30. Solangi, B. K., Khoso, F. N., Shafique, M. A., Ahmed, A. M., **Gilal, A. A.**, and Dhilloo, K. H. (2017). Varietal resistance of different tomato genotypes against sucking pest complex. *Proceedings of 3<sup>rd</sup> International Conference on Agriculture, Food and Animal Sciences*. January 10-11, 2017, Sindh Agriculture University, Tando Jam, Pakistan. p. 68.
  31. Ahmed, A. M., Khoso, F. N., **Gilal, A. A.** and Rustamani, M. A. (2017). The consequences of male age mating responses of brown plant hopper *Nilaparvata lugens* (Stål). *Proceedings of 3<sup>rd</sup> International Conference on Agriculture, Food and Animal Sciences*. January 10-11, 2017, Sindh Agriculture University, Tando Jam, Pakistan. P. 68.
  32. **Arfan, A.G.**, Muhamad, R., Omar, D. and Nor Azwady, A.A. (2015). Damage potential of adult apple snails to rice grown by different conventional methods of direct seeding and transplanting. *Proceedings of the 2<sup>nd</sup> Rice Research Colloquium, Universiti Putra Malaysia*.
  33. **Arfan, A.G.**, Muhamad, R., Omar, D. and Nor Azwady, A.A. (2014). Feeding preference and growth of *Pomacea maculata* and *Pomacea canaliculata* on selected foods. *Proceedings of 6<sup>th</sup> International Agriculture Congress "Agriculture Innovations"*. 25-27<sup>th</sup> November, 2014, Pullman, Putrajaya. P. 54.
  34. **Arfan, A.G.**, Muhamad, R., Omar, D. and Nor Azwady, A.A. (2014). Population distribution of different apple snails (*Pomacea* spp.) in rice fields of Peninsular Malaysia. *Proceedings of 8<sup>th</sup> International Conference on Plant Protection in the Tropics*. 8-10 April, 2014, Berjaya Times Square Hotel, Kuala Lumpur. Malaysia. pp. 69-71
  35. **Arfan, A.G.**, Muhamad, R., Omar, D. and Nor Azwady, A.A. (2014). Comparative life cycle of *Pomacea maculata* and *Pomacea canaliculata* on rice. *Proceedings of 8<sup>th</sup> International Conference on Plant Protection in the Tropics*. 8-10 April, 2014, Berjaya Times Square Hotel, Kuala Lumpur. Malaysia. pp. 126-127
  36. Muhamad, R., **Arfan, A.G.**, Omar, D. and Nor Azwady, A.A. (2014). Ecobiology of apple snails, *Pomacea* spp. in rice fields in Peninsular Malaysia. *Proceedings of 2014 ISSAAS International Congress*. Tokyo, Japan. p. 45.
  37. **Arfan, A.G.**, Muhamad, R., Omar, D. and Nor Azwady, A.A. (2013). Population distribution and comparative growth of two freshwater snails *Pomacea* spp. in Peninsular Malaysia. *Proceedings of 2<sup>nd</sup> National conference on System of rice intensification*. 11-13 June, 2013, Orient Star Resort, Lumut, Perak, Malaysia. pp.23.

### **Year-wise Summary Research Publications**

2024	03
2023	11
2022	05
2021	06
2020	09
2019	05
2018	02
2017	07
2016	09
2015	06
2014	02
<b>Total</b>	<b>65</b>

### **Year-wise Summary -Conference Proceedings**

2022	18
2020	08
2019	01
2018	01
2017	03
2015	01
2014	04
2013	01
<b>Total</b>	<b>37</b>

### **PROFESSIONAL TRAININGS & COURSES**

1. One day National workshop on “Eco-friendly Management of Fruit Flies” organized by Nuclear Institute of Agriculture (NIA), Tandojam held on August 8, 2023.
2. Training course on Beekeeping and Honeybee Processing Technology for Pakistan, sponsored by Commerce and organized by Hunan Agricultural Group Co. Ltd. from 10<sup>th</sup> May to 23<sup>rd</sup> May, 2023 at Changsha, Hunan, People’s Republic of China.
3. PNS-NIA joint seminar on “**Nuclear Techniques in Agriculture**” organized by Nuclear Institute of Agriculture (NIA), Tandojam held on February 27, 2023.
4. Online Seminar on “Integrated Prevention and Control of Locusts and Other Plant Diseases and Pests for Pakistan” Organized by National Agricultural Technology Extension and Service Center (NATESC), Ministry of Agriculture and Rural Affairs, P. R. China, held from March 13 to 21, 2021.
5. Two days International Workshop on “Control Strategies of Fall Armyworm (Exchange of international experiences)” organized by Plant Protection Research Institute – Agricultural Research Center – Egypt, April 4 and 5, 2021.
6. Two-day training of Presiding Officers and Senior Assistant Presiding Officers, General Elections-2018 organized of Election Commission of Pakistan.



7. Workshop on Research Trends and Information Resources in Agriculture, Organized by Perpustakaan Sultan Abdul Samad, Universiti Putra Malaysia, 30-08-2012.
8. Managing the Research Journey, Organized by University of Otago at Universiti Putra Malaysia, 08-12-2012.
9. Crop Loan Insurance Scheme in Pakistan, organized by Institute of Bankers Pakistan at SBP, BSC Bank Sukkur, 07-04-2011.
10. Comprehensive Overview of International Trade Finance organized at Learning Center-South, Bank Alfalah Ltd., 27-02-2009.
11. One Day Training Program on Export Refinance organized by Institute of Bankers Pakistan at SBP, BSC Bank Sukkur, 22-05-2008.
12. One Week Crash Training Program on Agriculture Financing, conducted at State Bank of Pakistan, BSC. Bank Sukkur, 05-05-2008 to 09-05-2008.
13. Alfalah Gold Standard Service Training Program, 25-08-2007.
14. Two Days Special Outreach & Training Course, Organized by State Bank of Pakistan, at Loralai, Baluchistan, 23-05-2007 to 24-05-2007.
15. One Month Comprehensive Training at TDC, Bank Alfalah Ltd. Karachi, 12-02-2005 to 17-03-2005.

#### **POST-GRADUATE STUDENTS SUPERVISED**

<b>Sr. No.</b>	<b>Reg. No.</b>	<b>Name</b>	<b>Thesis title</b>	<b>Year</b>
<b>PhD-Students</b>				
1.	PhD-2K16-ET-01	Adeel Aslam	Eco-biological studies and management of pulse beetle, <i>Callosobruchus maculatus</i> Fabricius in Sindh, Pakistan	2024
2.	PhD-2K15-ET-50	Sajjad Hussain Rind	Good agricultural practices for the management of onion thrips, <i>Thrips tabaci</i> L. (Thysanoptera: Thripidae)	2022
3.	PhD-2K6-ET-55	Bina	Potential of parasitoid, <i>Cotesia flavipes</i> (Cameron) for population management of stem borer, <i>Chilo infuscatellus</i> (Snellen) in sugarcane	2021
4.	PhD-2K17-ET-01	Abdul Hayee Gabol	Distribution, feeding and life table studies of tomato leafminer, <i>Tuta absoluta</i> Meyrick (Lepidoptera: Gelechiidae)	Awaiting Final thesis defense seminar
5.	PhD-2K17-ET-07	Ghulam Qadir Mangrio	Management of tomato leafminer, <i>Tuta absoluta</i> Meyrick (Lepidoptera: Gelechiidae)	Awaiting for Final thesis defense seminar

6.	PhD-2K17-ET-08	Ghulam Sarwar Kamboh	Monitoring and management of tomato fruit borer <i>Helicoverpa armigera</i> (Hübner) (Lepidoptera: Noctuidae)	Synopsis Approved Thesis writing in process
7.	PhD-2K15-ET-45	Kirshan Chand (As co-supervisor)	Influence of water pH on performance of insecticides against sucking insect pests of cotton	2023
8.	PhD-2K16-PT-21	Mushtaq Hussain Soomro (As co-supervisor)	Management of red palm weevil, <i>Rhynchophorus ferrugineus</i> (Coleoptera: Curculionidae) using food baits and pheromone traps	2022
9.	PhD-2K17-ET-027	Javed Ahmed Malik (As co-supervisor)	Distribution and management of Asian Citrus Psylla ( <i>Diaphorina citri</i> Kuwayama) in Naushahro Feroze, Sindh, Pakistan	Thesis submitted for foreign evaluation
10.	PhD-2K16-ET-013	Sanauallah Mangi	Effect of carrier water pH on performance of insecticides against <i>Pectinophora gossypiella</i> (Gelechiidae: Lepidoptera)	Thesis submitted for foreign evaluation
<b>M.Sc. Students</b>				
1.	M.Sc.-2K21-ET-025	Hisam Hyder	Performance of yellow sticky traps against Asian citrus psylla ( <i>Diaphorina citri</i> Kuwayama) in citrus orchards	2024
2.	M.Sc.-2K22-ET-023	Munesh Kumar	Life cycle and morphometric studeis of <i>Spodoptera frugiperda</i> (J.E. Smith) (Lepidoptera: Noctuidae) on cotton under lab conditions	2024
3.	M.Sc.-2K22-ET-024	Noor Kalhoro	Morphometric and lifecycle of Vegetable leaf miner <i>Liriomyza sativae</i> on tomato under laboratory conditions	2024
4.	M.Sc.-2K22-ET-025	Noor Nabi Koondhar	Population fluctuation of black bug <i>Cavelerius excavatus</i> (Distant) (Lygaeidae: Hemiptera) on sugarcane varieties	2024
5.	M.Sc.-2K21-ET-52	Zakia	Pesticidal potential of essential oils against <i>Callosobruchus maculatus</i> Fab. (Coleoptera: Bruchidae)	2023
6.	M.Sc.-2K21-ET-29	Khadija	Evaluation of plant essential oils against <i>Sitophilus oryzae</i> Linnaeus (Coleoptera: Curculionidae)	2023
7.	M.Sc.-2K21-ET-21	Fatima	Monitoring of <i>Earias insulana</i> (Lepidoptera: Noctuidae) population in cotton using pheromone and light traps	2023
8.	2K18-ET-33	Zeeshan Rasheed	Life table studies of <i>Spodoptera frugiperda</i> J. E. Smith	2022

			(Lepidoptera: Noctuidae) on maize under laboratory conditions	
9.	M.Sc.-2K20-ET-20	Savera	Potential of insecticides on mortality and feeding of <i>Spodoptera frugiperda</i> (Lepidoptera: Noctuidae) on maize under lab conditions	2022
10.	M.Sc.-2K20-ET-08	Gul Sughra	“Functional response of <i>Coccinella septempunctata</i> (L.) (Coleoptera: Coccinellidae) larvae on aphid species	2022
11.	M.Sc.-2K20-ET-09	Hasnain Ali	Impact of botanical extracts on oviposition of <i>Spodoptera frugiperda</i> (J.E Smith) (Lepidoptera: Noctuidae) under laboratory conditions	2022
12.	2K19-ET-04	Abdul Rahman Tunio	Insect diversity associated with garlic ( <i>Allium sativum</i> )	2021
13.	2K17-ET-54	Tariq Ahmed Morio	Varietal resistance of wheat against <i>Tribolium castaneum</i> (Coleoptera: Tenebrionidae) under laboratory conditions	2021
14.	2K18-ET-21	Nafeesa Zahra	Feeding preference of <i>Callosobruchus maculatus</i> (Fabricius, 1775) on pulses under laboratory conditions	2021
15.	2K18-ET-12	Ishrat	Feeding preference of <i>Tribolium castaneum</i> (Herbst) on cereals under laboratory conditions	2021
16.	2K15-ET-224	Ferhad Ahmed	Effect of plant materials against <i>Trogoderma granarium</i> everts (Coleoptera: Dermestidae)	2020
17.	2K16-ET-57	Shahid Ali	Relative efficacy of different trap crops in the management of onion thrips	2020
18.	2K17-ET-21	Jawahar Lal	Population fluctuation and damage potential of <i>Tribolium confusum</i> (Coleoptera: Tenebrionidae)	2020
19.	2K17-ET-25	Madan Kumar	Relative population of <i>Bactrocera dorsalis</i> (Diptera: Tephritidae) on jujube cultivars in field	2020
20.	2K17-ET-98	Abdul Samad	Relative population of chewing insect pests on different maize ( <i>Zae mays</i> L.) varieties	2020
21.	2K16-ET-30	Inayatullah	Effect of plant materials against <i>Sitophilus oryzae</i> L. (Coleoptera: Curuculionidae) in Wheat.	2019
22.	2K16-ET-52	Sana	Shelf life of <i>Dalbergia sissoo</i> and <i>Ocimum tenuiflorum</i> against	2019

			<i>Tribolium castaneum</i> (Coleoptera: Tenebrionidae)	
23.	2K16-ET-50	Saba	Relative efficacy of different concentrations of mint ( <i>Mentha longifolia</i> ) against <i>Tribolium confusum</i> (Coleoptera: Tenebrionidae)	2019
24.	2K15-ET-257	Shuhab-ul-din Naich	Impact of various phosphorus Fertilizer Doses on the sucking insect pests in different chickpea cultivars	2018
25.	2K15-ET-261	Waheed Ali Alies Jamal Din	Effect of plant materials against pulse beetle, <i>Callosobruchus chinensis</i> L. (Coleoptera: Bruchidae)	2018
26.	2K16-ET-01	Aamir shafi	Relative performance of different concentrations of neem ( <i>Azadirachta indica</i> ) against <i>Callosobruchus Chinensis</i> (Coleoptera: Bruchidae)	2018
27.	2K15-ET-250	Safdar Ali Koondhar	Effect of Plant Materials Against <i>Rhyzopertha dominica</i> fabr (Coleoptera: Bostrichidae)	2018

### **EXTRACURRICULAR ACTIVITES**

1. Livestock, Dairy, Fisheries and Agriculture (LDFA) Exhibition and Seminar held at Sindh Agriculture University, Tando Jam, 21<sup>st</sup> and 22<sup>nd</sup> January 2017.
2. Crafts and Banking Festival, 2010. Organized State Bank of Pakistan at Shaheed Benazir Bhutto Theater, Khairpur-2010.
3. Chairman, Election Committee to organize Universiti Putra Malaysia International Student Organization Elections, 2013
4. Chairman, Election Committee to organize Universiti Putra Malaysia International Student Organization Elections, 2014

### **LANGUAGES**

Fluency in English, Urdu and Sindhi

### **ACTIVITIES & INTEREST**

Reading journals & magazines, surfing the latest & creative things over web, exploring the beauty of nature, playing & watching cricket.

**PERSONAL DATA**

Father's Name: Ghulam Hussain Gilal  
Date of Birth: 7<sup>TH</sup> January, 1979  
C.N.I.C No.: 45302-0383896-5  
Sex: Male  
Marital Status: Married  
Religion: Islam

**REFERENCES**

Will gladly be provided when required.