

CURRICULUM VITAE

Dr. Fahad Nazir Khoso

Assistant Professor

Department of Entomology

Faculty of Crop Protection

Sindh Agriculture University

Tandojam



Personal Details:

Father's name: Nazir Ahmed

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Academic Qualifications

PhD. (Entomology) 2015
Universiti Putra Malaysia

MSc. (Entomology) 2011
Sindh Agriculture University
Tandojam

BSc. (Hons) 2005
(Entomology)
Sindh Agriculture University
Tandojam

Academic Awards & Distinctions

2019 HEC approved supervisor announced by Higher education commission of Pakistan

2019 Research Project ran under public private partnership on Mango irradiation

2018 Award of Research Project by Higher Education Commission of Pakistan under NRPU program.

2012 PhD. Scholarship awarded by HEC under Faculty Development Program.

2005 Chancellor's Gold Medal for Securing the First Position in B.Sc (Agri) Hons.

Academic & Research Experience:

1. Assistant Professor: Department of Entomology, Sindh Agriculture University Tandojam, Pakistan. February 2017-Todate.
2. Lecturer: Department of Entomology, Sindh Agriculture University Tandojam, Pakistan. January 2016- February 2017.
3. Research Associate: In Project: Funded by Ministry of Science Technology and innovation Malaysia in Department of Plant Protection, Faculty of Agriculture, Universiti Putra Malaysia. January, 2012- December 2014
4. Research Associate: In Project "Management of Major Pests of Chilli in Sindh". Department of Plant Protection, Sindh Agriculture University Tandojam. September, 2011- February 2012.

Training and Workshops:

- 2018 (November 12th-17th) Production and Purification of Recombinant Proteins. Organized by: School of Biological Sciences University of the Punjab Lahore.
- 2018 (July 8th-28th) Seminar on Hybrid Rice Promotion for Pakistan. Sponsored by: Ministry of Commerce and Organized by Yuan Longping High-Tech Agriculture Co., Ltd.
- 2013 (March 2nd-3rd) Training Workshop on Molecular Techniques in Spiders and Entomopathogenic Bacteria Identification. Department of Plant Protection, Faculty of Agriculture, Universiti Putra Malaysia.
- 2012 (October 29th-30th): Workshop on Recombinant Molecular Biology Techniques. Animal Genetics & Genome Evolutionary Lab, Institute of Biological Sciences, Faculty of Science, University of Malaya.
- 2012 (March 17th-18th): Managing the Research Journey Seminar. DKU, Faculty of Medicine and Health Sciences, Universiti Putra Malaysia.

Publications:

1. Kubar, M.I., Khoso, F.N., Katri, I., Khuhro, N.H and Gilal, A.A, 2021. Effect of different management strategies on melon fruit fly, *Bactrocera cucurbitae* (Coquillett) infestation in cucurbit vegetables. Sarhad Journal of Agriculture (Accepted) manuscript # MH20210327060351.
2. Agha M.A., Alhilfi, A.Z. A., Khoso, F.N., Khatri, I., Hajano, J.D, Rattar, Q., Rajput, I.A. and Lashari, M. A. 2021. Effect of Age on Reproductive Behaviour of the Brown Planthopper, *Nilaparvata lugens* Stål (Hemiptera: Delphacidea). Pakistan Journal of Zoology, DOI: <https://dx.doi.org/10.17582/journal.pjz/20190627090614>
3. Rajput, M.A., Syed, R.N., Khoso, F.N., Khanzada, M.Ali., Khan, I.A., Lodhi, A.M. 2021. Influence of whip smut (*Sporisorium scitamineum*) infection on quantitative parameters of sugarcane cultivars. Sugar Industry, 146(3):161:171.
4. Khoso, S.I., Hajano, J.D., Lakho, A.A., Abro, M.A., Dhiloo, K.H., Wagan, K.H., Khoso, F.N., Jarwar, A.R., Qazi, S.T., Rizwan, S. 2021. Screening of Okra Varieties For Resistance to Okra Yellow Vein Mosaic Disease under field conditions. International Journal of Phytopathology, 10 (01): 37-48.
5. Magsi, A.W., Alhilfi, A.Z.A, Dhiloo, K.H., Khoso, F.N., Rajput, S., Soomro, D.M and Lashari, M.A. 2021. Dual Effect of Plant Materials against Pulse Beetle *Callosobruchus maculatus* F. (Chrysomelidae: Coleoptera) on Chickpea. Pakistan Journal of Scientific and Industrial Research (Accepted) Manuscript # PJSIR-I0172-SE-2849.
6. Sharif, A., Javed, H., Ali, A., Ahmed, I. and Khoso, F.N. 2021. Evaluation of antioxidant and antibacterial potential of *Zanthoxylum alatum* fruit and leaves extracts against selected pathogenic bacteria. Pakistan Journal of Agriculture Agricultural Engineering and Veterinary Sciences (Accepted).
7. Hassan Z., Kumar, A., Talpur, K.H., Khoso, F.N., Wahocho, N.A., Afzal, J., Talpur, N.A and Babar, S.K. 2020. Potassium-induced resistance of cotton against boll-rotting, thrips and mealy bugs. Pure and Applied Biology, 10(1): 234-243.

8. Rafiq, N., Ali, A., Khurshid, H., Akbar, B., Tarar, Z. H., **Nazir, F.**, Javed, H., Ahmed, I and Ahmed, M. 2020. Assessment of antibacterial potential of methanol, n-hexane, ethyl acetate and chloroform *Moringa oliefera* leaf extracts. Pure Applied Biology, 9(3): 1946-1953.
9. Kandhro, A.G., Hajano, J.D., Bhutto, M.S. , Jiskani, M.M., Ahmed, A.M., **Khoso, F.N.**, Soomro, A.H., Qazi, S.T., Soomro, W.A and Jatoi, G.H. 2020. Spatial distribution of chili leaf curl disease and its correlation with environmental factors in Southern Irrigated Plain Zone of Pakistan. Pure Applied Biology, 9(4): 2543-2553.
10. Ujjan, R.L., Ahmed, A.M., Alhilfi, A.Z.A., **Khoso, F.N.**, Rahoo, A.M., Rajput, I.A., Soomro, D.M. 2019. Performance of pheromone traps at different heights for mass trapping of *Helicoverpa armigera* (Noctuidae: Lepidoptera) in chickpea field. Asian Journal of Agriculture & Biology, 7(4):610-616.
11. Rajput, M.A., Syed, R.N., Khanzada, M.A., Rajput, N.A., **Khoso, F.N** and Lodhi, A.M. 2019. Chemical control of whip smut of sugarcane caused by *Sporisorium scitamineum*. Pakistan Journal of Botany, 51(5), DOI: [http://dx.doi.org/10.30848/PJB2019-5\(17\)](http://dx.doi.org/10.30848/PJB2019-5(17)).
12. Khurshid, H., Rafiq, M., **Nazir, F.**, Ali I., Ahmed, M., Akbar, B., Ahmed, M and Ali, A. (2019). Antimicrobial properties of hydrogen peroxide and potash alum alone and in combination against clinical bacterial isolates. Pure and Applied Biology, 8(4): 2238-2247.
13. Chajro, M.A., **Khoso, F.N.**, Khatri, I., Hajano, J.D., Lodhi, A.M., Otho, S., Nizamani, I.A., Ahmed, M and Ali, A. (2019). Chemotaxis of fruit fly species against Methyl eugenol in the presence of different food flavours in a guava orchard. Pure and Applied Biology, 8(1): 452-459. <http://dx.doi.org/10.19045/bspab.2018.700204>.
14. Ali, A., Ashraf, Z., Rafiq, M., Kumar, A., Jabeen, F., Lee, **F., Nazir, F.**, Ahmed, M., Rhee, M., Choi, E.H. 2019. Novel Amide Derivatives as Potent Tyrosinase Inhibitors; In-vitro, In-vivo Antimelanogenic activity and computational Studies. Medicinal Chemistry, 15(7):715-728 [10.2174/1573406415666190319101329](http://dx.doi.org/10.2174/1573406415666190319101329).
15. Lachhman, **Khoso, F.N.**, Gilal, A.A., Agha, M.A., Hajano, J.D, Khatri, I., Nizamani, IA., Lodhi, A.M., Ali, A., Rehman, T., Ahmad, Munir, A. (2018). Improving Chemo Taxis Effects of Methyl Eugenol Bait Against Two Fruit Fly Species in Jujube Orchards Located in Tandojam, Pakistan. Journal of Kansas Entomological Society, 91(3): 230-238.
16. Magsi, I.A., Khatri, I., **Khoso, F.N.**, Shah, R.A., Brohi, M.U., Dahri, Z.H. (2018). Some Lygaeid Bugs (Hemiptera: Lygaeidae) of Tandojam. University of Sindh Journal of Animal Sciences, 2(3): (19-22).
17. Khoso, N., Marri, J.M., **Khoso, F. N.**, Solangi, B.K *et al.* (2017). Assessment of botanical insecticides against onion thrips, *Thrips tabaci* (L.) (Thysanoptera: Thripidae). Journal of Entomology and Zoology Studies, 5(6): 572-575.
18. Shah, A.H., Rajput, L.B., **Khoso, F.N.**, Gilal, A.A. (2017). Predominance of different coloured tubs on the attraction of Okra Jassid *Anrasca bigutulla bigutulla* (Ishida) through troch light trap. Pakistan Journal of Entomology Karachi, 31(1): 23-28.
19. Darya, H., Agha, M., **Fahad, N.**, Gilal, A.A., Dhiloo, K. H., Solangi, B. K., Khusk, G.M., Shar, P.A. (2017). New records of genus *Strongylium* from Malaysia (Coleoptera: Tenebrionidae). Journal of Biodiversity And Environmental Sciences, 11(2): 16-28.
20. Rajput, I.A., Syed, T.S., Gilal, A.A., Agha, M.A., **Khoso, F.N.**, Abro, G.H and Rustamani, M.A. (2017). Effect of Different Synthetic Pesticides Against Pink Bollworm *Pectinophora gossypiella* (Saund.) On Bt. and non-Bt. Cotton Crop. Journal of Basic & Applied Sciences, 13, 454-458.

21. **Khoso, F.N.**, Shah, N.H., Agha M.A., Solangi, B.K., Gilal, A.A., Mastoi, M.I. and Khushk, G.M. (2017). Screening of Different Varieties of Okra (*Abelmoschus esculentus* L.) against Sucking Insect Pests. Journal of Basic & Applied Sciences, 13: 161-165.
22. Iftikhar, Y., Haq, I.U., Raza, W., Ullah, M.I., Ali, S., **Khoso, F.N.** and Mubeen, M. (2017). Seasonal Fluctuation Of Asian Citrus *Psylla* Populations In The Citrus Orchards Infected With Huanglongbing In Sargodha, Pakistan. Pakistan Journal of Phytopathology, 29(01): 175-179.
23. Solangi, B.K., **Khoso, F.N.**, Shafique, MA., Agha, M.A, Gilal, A.A., Talpur, M.A and Dhiloo, K.H. (2017). Host plant preference of sucking pest complex to different tomato genotypes. Journal of Entomology and Zoology Studies, 5(1): 293-297.
24. Sahito, J.G.M., Rustamani, M.A., Abro, G.H., Gilal, A.A., **Khoso, F.N.**, Bashir, L. and Sahito, J.G.M. (2016). Effect of Selected Insecticides on Damage Compensation of Sucking Pests In Cotton. Science International, 28(2):1305-1308.
25. Mastoi, M. I., Azura A. N., Muhamad R., Idris A. B., Solangi B. K., Gilal, A.A., Bhatti, M. I. and **Khoso, F. N.** (2016). A report of natural enemies of papaya mealybug, *Paracoccus marginatus* (Hemiptera: Pseudococcidae) in Peninsular Malaysia. Science International, 28(1): 371-374.
26. **Khoso, F. N.**, Wong, S. K., Chia, S. L., & Lau, W. H. (2015). Molecular Identification of Synanthropic Flies in Malaysia. Australian journal of Basic & Applied Sciences, 9(5): 390-396.
27. **Khoso, F.N.**, Marianne, T.P.I., Mahsuri, B.T., and Lau, W.H. (2015). Molecular Identification and Composition of Cyclorrhaphan Flies Associated with Cafeterias. Pakistan Journal of Zoology 47(6):1743-1752.
28. **Khoso, F. N.**, Wong, S. K., Chia, S. L., & Lau, W. H. (2015). Assessment of non-biting synanthropic flies associated with fresh markets. Journal of Entomology and Zoology Studies, 3(1):13-20.
29. Gilal, A.A., Sahito, J.G.M., **Khoso, F.N.**, Arain, M.S., Sahito, J.G.M., & Sheikh, M.J. (2015). Abundance of Coccinellid Predators On Insect Pests Of Cotton, *Gossypium Hirsutum* (L). Pakistan Journal of Entomology Karachi, 30 (2): 169-172.
30. Veesar, G.M., Khuhro, S. N., Lohar, M. K., Khuhro, T.A. and **Khoso, F.N.** (2012). Life table of coccinellid predator, *Hippodamia variegata* goeze (coleoptera: coccinellidae) under field conditions. Pakistan Journal of Agriculture Agricultural Engineering and Veterinary Sciences, 28 (1): 65-70.
31. **Khoso, F.N.**, Lanjar, A.G., Marri, J.M., Sahito, J.G.M. and Kaleri, S.H. (2011). Effects of various plants extract on growth of *Spodoptera litura* (FAB), (Lepidoptera, Noctuidae). Pakistan Journal of Entomology Karachi, 26 (2): 123-128.
32. **Khoso, F.N.**, Lanjar, A.G., Nahiyoon, A.A., Sahito, J.G.M., and Kaleri, A.W. (2011). Effect of various plant's extract on survival and development of *Spodoptera litura* (FAB.) (Lepidoptera, Noctuidae). Pakistan Journal of Entomology Karachi, 26 (2): 129-134.

List of Conferences:

1. Shah, S.J., Solangi, B.K., Mastoi, Z.A., Nizamani, I.A., **Khoso, F.N.**, Suthar., V. 2020. Varietal preference of sucking insect pests on mustard varieties. Abstract in 40th Pakistan congress of zoology.116p. Held on March 10-12, 2020. Department of parasitology, Sindh Agriculture University Tandojam

2. Khoso, F.N., Lashari, R.A., Khatri, I., Lodhi, A.M. 2020. Irradiation of mango fruit flies through electron beam technology in Pakistan. Abstract in 40th Pakistan congress of zoology.132p. Held on March 10-12, 2020. Department of parasitology, Sindh Agriculture University Tandojam
3. Chand, K., Khoso, F.N., Gilal A.A., Lodhi, A.M. 2020. Characterization of carrier water used to prepare insecticides solution against different insect pests. Abstract in 40th Pakistan congress of zoology.133p. Held on March 10-12, 2020. Department of parasitology, Sindh Agriculture University Tandojam
4. Gandahi, M.A., Abro, A.M., Khoso, F.N., Khatri, I. 2020. Laboratory bioassay of synthetic insecticides against *Dysdercus cingulatus* (FAB.). Abstract in 40th Pakistan congress of zoology.134p. Held on March 10-12, 2020. Department of parasitology, Sindh Agriculture University Tandojam
5. Khushk, M.A., Khatri, I., Khoso, F.N., Ahmed, Z. 2020. Current status of thrips of Tandojam. Abstract in 40th Pakistan congress of zoology.179p. Held on March 10-12, 2020. Department of parasitology, Sindh Agriculture University Tandojam
6. Soomro, D.M., Aga, M.A., Khoso, F.N., Lakho, J.M. 2020. Effect of different natural food on the life table parameters of *Coccinella septempunctata* Linn. (Coleoptera: Coccinellidae). Abstract in 40th Pakistan congress of zoology.190p. Held on March 10-12, 2020. Department of parasitology, Sindh Agriculture University Tandojam
7. Ali, A., Khatri, I., Khoso, F.N., Lodhi, A.M., Shah, S.A. 2020. Taxonomic study of bumble bees from district Shigar, Gilgit Baltistan. Abstract in 40th Pakistan congress of zoology.289p. Held on March 10-12, 2020. Department of parasitology, Sindh Agriculture University Tandojam
8. Soomro, S. H., Khoso, F. N., Ahmed, A. M., Asif, M. U., Otho, S., Soomro, S. A. and Soomro, Q. A. 2019. Laboratory bioassay of new chemistry insecticides against local population of *Helicoverpa armigera* at Tandojam, Sindh, Pakistan. Abstract in 4th International Conference on Agriculture, Food and Animal Sciences. 65p. held on January 21-22, 2019. Sindh Agriculture University Tandojam, Sindh-Pakistan.
9. Soomro, S. A., Khoso, F. N., Ahmed A. M., Asif, M. U., Soomro, S. H. and Soomro, Q. A. 2019. Resistance of different chickpea genotypes against *Helicoverpa armigera*. Abstract in 4th International Conference on Agriculture, Food and Animal Sciences. 169p. held on January 21-22, 2019. Sindh Agriculture University Tandojam, Sindh-Pakistan.
10. Lashari, R. H., Khoso, F. N., Ahmed, A. M., Lodhi, A. M., Lashari, A. A. and Talpur, M. A. 2019. Effects of aromatic essences on efficacy of methyl eugenol in controlling fruit flies species in mango orchard. Abstract in 4th International Conference on Agriculture, Food and Animal Sciences. 65p. held on January 21-22, 2019. Sindh Agriculture University Tandojam, Sindh-Pakistan.
11. Ahmed, A. M., Khoso, F. N., Gilal, A. A. and Rustamani, M. A. 2017. The consequences of male age in mating response of brown plant hopper *Nilaparvata lugens* (Stal). Abstract in 3rd International Conference on Agriculture, Food and Animal Sciences. 68p. held on January 10-11, 2017. Sindh Agriculture University Tandojam, Sindh-Pakistan.
12. 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. Abstract in 3rd International Conference on Agriculture, Food and Animal Sciences. 68p. held on January 10-11, 2017. Sindh Agriculture University Tandojam, Sindh-Pakistan.

13. Khanzada, K. K., Solangi, B. K., Shah, A. H., Khoso, F. N. and Nizamani, I. A. 2017. Preference of *dirhinus giffardii* on the pupae of *Bactrocera zonata* and *Bactrocera cucurbitae* at different temperatures. Abstract in 3rd International Conference on Agriculture, Food and Animal Sciences. 85p. held on January 10-11, 2017. Sindh Agriculture University Tandojam, Sindh-Pakistan.
14. Rehman, T., Khoso, F. N., Talpur, M. A., Khatri, I., Solangi, B. K., Chand, K. and Arslan, M. 2017. Improving appealing tendency of methyl eugenol bait against *Bactrocera zonata* in Mango orchard. Abstract in 38th Pakistan Congress of Zoology. 165p. held on February 27-March 1, 2018. Department of Zoology, University of Punjab, Lahore-Pakistan.
15. Lachhman., Khoso, F. N., Shah, S. A. H., Hajano, J. D., Ali, A., Rehman, T., Chhajro. M. A. and Mangi, S. 2017. Improving efficacy of methyl eugenol bait against fruit fly species in jujube orchard. Abstract in 38th Pakistan Congress of Zoology. 175p. held on February 27-March 1, 2018. Department of Zoology, University of Punjab, Lahore-Pakistan.
16. Chhajro, M. A., Khoso, F. N., Gilal, A. A., Hajano, J. D., Ahmed, A. M., Rehman, T., Lachhman and Shah, S. A. 2018. Enhancement of chemotaxis effects of methyl eugenol against fruit fly species in guava orchard. Abstract in 38th Pakistan Congress of Zoology. 179p. Held on February 27-March 1, 2018. Department of Zoology, University of Punjab, Lahore-Pakistan.

Books:

1. Talpur, M.A. and Khoso, F.N. 2017. Handbook on Mango: Problems and Protection Practices. ISBN 978-969-23157-0-6.
2. Talpur, M.A., Gilal A.A and Khoso, F.N. 2021. A Hand Book on Ber. Under Publication

Research Students:

Supervisor:

1. Naveed Ahmed Laghari. 2021. Reg. No. 2K17-ET-37. Efficacy of Botanical Insecticides against *Thrips tabaci* On Cotton.
2. Rashid Ali Lashari. 2020. Reg. No. 2K17-ET-41. Effect of Electron Beam on Fruit Fly Infested Mango Fruits.
3. Ali Murtaza Abro. 2020. Reg. No. 2K17-ET-03. Potency of different new chemistry insecticides against red cotton bug *Dydercus cingulatus* (fab.) Under laboratory conditions.
4. Sikandar Ali Soomro. 2019. Reg. No. 2K16-ET-59. Title: Preference of *Helicoverpa armigera* on some New Chickpea Cultivars.
5. Sadam Hussain Soomro. 2019. Reg. No. 2K16-ET-51. Comparative Bioassay of *Bacillus thuringiensis* with Insecticides against *Helicoverpa armigera* on Chickpea.
6. Rizwan Haider. 2019. Reg. No. 2K16-ET-49. Management of Fruit Fly Species Using Male Annihilation Technique and Aromatic Baits in Mango Orchard.
7. Taimoor Ur Rehman. 2019. Reg. No. 2K16-ET-63. Title: Molecular identification and management of *Bactrocera* spp. in Mango orchard.

8. Muhammad Arsalan. 2018. Reg. No. 2K15-ET-236. Title: Chemotaxis of Mango fruit fly species (Diptera: Tephritidea) using Methyl eugenol in combination with different food essences.
9. Mansoor Ahmed. 2018. Reg. No. 2K15-ET-234. Title: Performance of different food essences with methyl eugenol against fruit fly species (Diptera: Tephritidea) in guava orchard.
10. Lachhman. 2018. Reg. No. 2K15-ET-233. Title: Response of fruit fly species (Diptera: Tephritidea) to methyl eugenol in combination with various food flavors in jujube orchard.

Co-Supervisor:

1. Ihsan Ahmad Magsi. 2018. Reg. No. 2K16-ET-29. Identification of seed bugs (Hemiptera: Lygaeidae) of Tandojam.
2. Ali Asghar. 2018. Reg. No. 2K15-PP-266. Response of Okra leaf curl viral disease (OLCVD) in relation to environmental condition.
3. Najeebullah Khoso. 2018. Reg. No. 2K14-PT-336. Evolution of bio-pesticides against Thrips on Onion.
4. Naeem Ul Haque. 2017. Reg. NO. 2K13-ET-283. Title: Screening of different varieties of okra (*Abelmoschus esculentus* L.) against sucking insect pests.

MOLECULAR IDENTIFICATION PROJECTS:

Molecular Identification of Synanthropic Flies in Malaysia using COI barcoding region. Fifty six (56) insect specimens of fourteen (14) species from three Families were sequenced, identified and submitted in NCBI Genbank.

Accession numbers:

KC_855273-74, KF_562105, KJ_496779-80, KC_855270-72, KC_855286, KF_562106, KJ_496781-85, KC_855275, KF_562113, KJ_496772-74, KF_562103, KJ_496769-71, KC_855277, KF_562113, KJ_496775-77, KF_562112, KJ_496778, KC_855281, KF_562114, KJ_496788, KC_855280, KJ_496786-87, KF_562117, KJ_496790, KC_855284, KF_562109, KJ_496796-800, KC_855282-83, KF_562108, KJ_496791-94 Molecular Identification of Cyclorrhaphan Flies Associated with Cafeterias using COI and COII DNA Barcoding of *Apis cerana* collected from different regions of Malaysia using COI region. Forty Four specimens were sequenced and submitted in NCBI Genbank. Accession numbers: KJ755615-KJ755622, KJ755623-KJ755628, KJ755566- KJ755575, KJ755605-KJ755614, KJ755585-KJ755594.

REFERENCES

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1.	Dr. Abdul Mubeen Lodhi	Professor	Department of Plant Protection, Faculty of Crop Protection, Sindh Agriculture University Tandojam, Pakistan	amlodhi@sau.edu.pk	+92 306 2754568
2.	Dr. Lau Wei Hong	Associate Professor	Department of Plant Protection, Faculty of Agriculture, Univesiti Putra Malaysia	lauweih@upm.edu.my	+603-9769 4847

LIST OF PROJECTS:

Approved:

S. No	Title	Funding Agency	Amount	Duration	Status
1	"Characterization of Irrigation Water and Its Impact on Performance of Insecticides"	Higher Education commission of Pakistan	Rs.1971227/-	24 Months	Ongoing

Submitted As Principal investigator:

S. No	Title	Funding Agency	Amount	Duration	Status
1	Development Of Ready To Use Parapheromone Dispenser For Management Of Fruit Flies In Cucurbit Vegetables	SAU Small Grant by ORIC	0.5 millions	1.5 Years	Submitted
2	Surveillance, DNA Barcoding of Mango Hoppers and their Natural Enemies with Eco-Friendly Control Measures	PARC (Agriculture Linkage Program (ALP))	5.1 millions	36 Months	Submitted
3	Characterization of Indigenous <i>Bacillus thuringiensis</i> and their application as an IPM Tool against Tomato Fruit Borer	PARC (Agriculture Linkage Program (ALP))	5.8 millions	36 Months	Submitted
4	Diversity Studies of Honey Bees and their gut microbial Fauna in Sindh, Pakistan	PARC (Agriculture Linkage Program (ALP))	6.0 millions	36 Months	Submitted

Submitted As Co-Principal Investigator:

S. No	Title	Funding Agency	Amount	Duration	Status
1	Development of Nanofiberous Protective Fruit Bags for Protection of Mango Fruit against insect Pests and Pathogens	Pakistan Science Foundation	Rs. 1,18,29,584/-	36 Months	Submitted
2	Development of E-Beam irradiation treatment protocols for exportable fruits and vegetables with especial reference to insects and Pathogens disinfection,	Pakistan Science Foundation	Rs. 1,25,183,50/-	36 Months	Submitted