Dr. Shah Alam Khan

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ADMINISTRATIVE EXPERIENCE					
	Designation	**Institution**	**From** (dd. mm. yyyy)	**To** (dd. mm. yyyy)	**Total Duration** (years. months. days)
1	Dean FCPS	Faculty of Crop Protection Sciences, The University of Agriculture Peshawar	04-11-2024	04-11-27	3 years
2	Head of the Department/ Chairman	Department of Plant Protection The University of Agriculture Peshawar	29-6-2020	29-6-2023	3 years
3	Director (Quality Assurance)	The University of Agriculture Peshawar Directorate of Quality (DQA)	27-11-2018	27-11-2019	1 years
4	Chief Editor	Journal of Weed Science Research (JWSR)	02-03-2025	Till Date	1 year
5	Member Editorial Board (Sarhad journal)	The University of Agriculture, Peshawar	27-05-2016	27-05-2019	3 years
6	Assistant Coordinator	International Project "Experience America AMG-KSU" Funded by USAID-AED USA, Kansas State University Manhattan-USA	25-1-2009	25-3-2009	02 months

ACADEMIC QUALIFICATION:

S.No	LEVEL	CERTIFICATE/ DEGREE	DIVISION/ CGPA	YEAR	NAME OF THE INSTITUTION
1	**Post-Doctorate**	**Project Title**	**Duration**		
i.	**1st Post-Doctoral Certificate (HEC Funded)**	Categories and Inheritance of Resistance in Wheat Against Russian Wheat Aphid, *Diuraphis noxia*".	**18 Months**	**2008-2009**	Department of Entomology Kansa State University Manhattan USA

ii.	**2nd Post-Doctoral Certificate (Sponsored by International Institute of Education (IIE-New York) USA)**	Variation of Resistance in Barley Against Biotype of the Russian Wheat Aphid, *Diuraphis noxia* Biotypes.	**10 Months**	**2010**	Department of Entomology Kansa State University Manhattan USA
iii.	**3rd Post-Doctoral Certificate (Sponsored by USDA, USA)**	Feeding Behavior Comparison of Soybean Aphid Hemiptera:Aphididae) Biotypes on Different Soybean Genotypes.	**6 Months**	**2011**	Department of Entomology Kansa State University Manhattan USA
2	Ph.D	**Field of Ph.D/ Thesis Title** Studies on the Aphids Distribution Pattern and Their Natural Enemies in Wheat and Maize Crop		**2004**	The University of Agriculture Peshawar Khyber-Pakhtunkhwa
3	MS/ M.Phil	**M.Sc. (Plant Protection)**	**3.85**	**1995**	The University of Agriculture Peshawar Khyber-Pakhtunkhwa
4	Bachelors	**B.Sc. (Hons Agriculture)**	**3.22**	**1993**	The University of Agriculture Peshawar Khyber-Pakhtunkhwa
5	Intermediate	**F.Sc**	**1st**	**1988**	Govt. College Bannu
6	Matriculation	**SSc**	**1st**	**1986**	Govt High School Domel Bannu

TEACHING EXPERIENCE

S.No	Designation	Institution	From (dd. mm. yyyy)	To (dd. mm. yyyy)	Total Duration (years. months. days)
1	**Professor**	The University of Agriculture Peshawar Khyber-Pakhtunkhawa	30-May-2012	Till date	13 years & 7 months (31/12/24)
2	**Associate Professor**	The University of Agriculture Peshawar Khyber-Pakhtunkhawa	26-Oct-2009	29-May-2012	2 years, 07 months, 04 days
3	**Assistant Professor**	The University of Agriculture Peshawar Khyber-Pakhtunkhawa	01-Jan-2005	25-Oct-2009	4 years, 09 months, 25 days
4	**Lecturer**	The University of Agriculture Peshawar Khyber-Pakhtunkhawa	17 July-1996	31-Dec-2004	8 years, 05 months, 14 days

RESEARCH EXPERIENCE					
	Designation	**Institution**	**From** (dd. mm. yyyy)	**To** (dd. mm. yyyy)	**Total Duration** (years. months. days)
1	**Visiting Scientist**	Department of Entomology Kansa State University Manhattan USA	**28 February 2008**	**15 July 2009**	**16 months 17 days**
2	**Post-Doctoral fellow**	Department of Entomology Kansa State University Manhattan USA	**26 October 2009**	**15 July 2010**	**9 months 20 days**
3	**Research Associate**	Department of Entomology Kansa State University Manhattan USA	**24 June 2011**	**24 November 2011**	**5 months**

EXECUTION OF MAJOR RESEARCH PROJECT(S):

S. No	Title of Research Project	Executed as PI/Team Leader or Co-PI/Co-Member	Awarding Date	Completion Date	Awarding Organization	Worth of Project in Rs.
1	**Study of cereal aphids population dynamics species compositions and their natural enemies in wheat crop and their effect on yield and yield components**	**Principal Investigator (PI)**	**2007**	**2011**	**HEC**	**200,0000/-**
2.	**Bio-chemical Mechanism of Plant Resistance to Insects (Hessian Fly) using glutathione assay technique**	**Team Leader**	**2010**	**2011**	**International Institute of Education and Research New York USA**	**US Dollar $-83630/-**

INTERNATIONAL EXPOSURE/ EXPERIENCE

S. No	Name of the international bodies with whom the candidate has work experience	Country Name	From	To
1	Department of Entomology Kansa State	USA	**28 February 2008**	**15 July 2009**

	University Manhattan USA			
2	Department of Entomology Kansa State University Manhattan USA	USA	**26 October 2009**	**15 July 2010**
3	Department of Entomology Kansa State University Manhattan USA	USA	**24 June 2011**	**24 November 2011**
	Title of workshop, seminar or conference	**Organized By**	**Country Name**	**Duration**
1	56th Annual ESA meeting	Nevada-Reno USA	USA	15-19 November 2008
2	Annual meeting of the Kansas Entomological Society of Central States	KSU Manhattan USA	USA	April,25 2009
3	Spotted Microarray workshop	Plant Biotechnology Center Department of Plant Pathology KSU and Integrated Genomic Facility and Bioinformatics Center.	USA	January 5-8 2009.
4	Training on Electrical Penetration Graph Technique (EPG)	Entomology Department Kansas State University Manhattan USA	USA	May, 30- to July 10 2010.

ORGANIZING EVENTS/ WORKSHOPS, SEMINARS, CONFERENCE

S.No	Title of workshop, seminar or conference	National/International	Role As	Date
1	International Conference on 'Food Security Through Sustainable Plant Protection Strategies'	HEC, PSF and FAO	Chief Organizer	16-20 January 2022
2	International Conference on 'Food Security Through Sustainable Agricultural Strategies in the Current Climate Change Scenario'	PSF and Provincial Agriculture Department	Chief Organizer	8-10 March 2023
3	International Conference on Computing technologies, tools and Applications	Department of Youth Affair KPK	Organizer	9^{th}-11^{th} May 2023
4	International Conference on Sustainable Agriculture and food Security	PSF and Water-AID	Organizer	27^{th}-31^{th} August 2023
5	2^{nd} International Conference on Computing technologies, tools and Applications	USAID, NIC, HEC	Organizer	4^{th} -6^{th} June 2024
6	International Conference & Expo on	the Faculty of Sciences	invited	18-26 May

	Life Sciences (ICELS) 2026	(PMAS- Arid agriculture university Rawalpindi.	speaker.	2026
7	1st International Research Symposium	Sindh Agriculture University, Tandojam	Invited Speaker	03-04 Feb 2026
8	International Horticulture Conference and Expo	The University of Agriculture Peshawar	Organizer	07-09 April 2026
9	Signing MOU for research collaboration	PMAS-Arid Agriculture University Rawalpindi and Sindh Agriculture University Tandojam	UAP representative	10 October 2026

RESEARCH PROJECTS CONDUCTED/COMPLETED:

1. As a Principal investigator, on the HEC sponsored project Title: Study of cereal aphids' population dynamics species compositions and their natural enemies in wheat crop and their effect on yield and yield components. Total budget: (20, 0000 PKR) during 2007-2011.

2. Project for research at KSU- Manhattan sponsored by International Institute of Research IIR-SRF, New York USA. (Amount in US dollar $-83,620-00)

PROJECTS SUBMITTED TO VARIOUS FUNDING AGENCIES/HEC PARC:

1. **Project Title: Development of Novel Model for Vegetables Pests management Using Artificial Intelligent System (Submitted to Pakistan Agricultural Research Council through 'Agriculture Linkages Programme' (ALP) total grant requested, Rs- 58,28,000/- (Rs-5.28 million).**

S N	Name of Research Grant and Funding Body Applied	Date of Review	Name of PI with Designation & Department	Thematic Area	Title of Research Proposal	Total Amount Requested (PKR Millions)	Duration (Starting and Ending Date)	Date of Approval	Key Project Expected Deliverables & Outcomes (Summary)	IRB Meeting Decision (Approved / Require Modification / Deferred / Disapproved)
	Government of KP and IFAD	June 2026	Department of Agriculture KP and University of Agriculture Peshawar	Attached at annexure -1.	Establishment of Tissue culture Lab for Dhakki Date Upgradation of Germplasms Unit in KP	1250.00/-	2026-27	June 2026	Attached at annexure –ii.	Approved
1	Establishment of Tissues Culture Lab For Dhakki Dates and Upgradation of Germplasm Units in Khyber Paktunkwa	12.08.2026	Professor Dr. Shah Alam Khan Dean, Plant Protection	Upgradation of Germplasm Units		1,250.000	2026-29 to 2029-2030	20.08.2026	The Scientists/Researchers & Officers of Agriculture Research System KP Through the new innovative technology on EPG at Agriculture University Peshawar and the system will also installed at HARS Abbottabad under his Supervision	Approved
Grand Total of Funding Requested for (PKR Millions) Rs, 1,250.000/-										
2.	Project for Agriculture and Food Security Innovation Challenge-2026 (FFC)Pakistan		2026			Submitted to AFIC -FFC				-----
	1.Title: Development of Novel Integrated pest management (IMP) modules for Researchers and Farmers Using (ML) and (DL) Technology.		6				Rs 2.00/- Million			

	A case study of Potato germplasms against potato aphid in KP				
	ALP PARC Islamabad				
3.	Titled 'Development of Cheap and Digital Technology for Screening canola Germplasms for resistance against Canola aphid using DC-EPG recording with deep learning model (DL) - under the 11th batch of the Agricultural Linkages Program (ALP), offered by the Pakistan Agricultural Research Council (PARC), Islamabad.	2026	Submitted	Rs 5.00/- Million	-----
4	Project Title: Development of Cheap, Rapid and Digital Technology for Screening Canola Germplasms for Resistance against Canola Aphid using DC-EPG Recording with Deep Learning Model (DL)	2026	Submitted to Faisalabad Endowment Fund	Rs 2.76 million	
5	Project Title For NRPU: Identification, Characterization and Development of HPR modules for canola genotype against Mustard aphid (*Liphapi erysimi)*	2026	Submitted to HEC	Thematic Area The identified resistant categories of canola genotypes under lab conditions using HPR modules detection of early insect pests and diseases in fields of (vegetables, cereals and oil seed crops) using cameras and visual sensors and suggest on-field possible treatment through EPG system. So far, most of our farmers and researchers depend on visual counting of pests and crop. Immediately start spray for pest/disease without calculating the consequences of pesticides control. The resistant varieties characterized by the proposed novel system (EPG-HPR) will avoid blanket spray and minimized cost of farmer's input with more yield. The develop product will be a major source of income for institutions and related industries at national level.	
				Rs 5/- millions	---
6	**Project Title:** DEVELOPMENT OF HOST PLANT RESISTANT (HPR) MODEL FOR POTATO CROP USING DC-EPG SYSTEM	2026	Submitted to Endowment Fun	Thematic Area The identified resistant category of Potato genotypes under lab conditions uses HPR modules detection of early insect pests and diseases in fields of (vegetables crops) using cameras and visual sensors and suggest on-field possible treatment through EPG system. So far, most of our farmers and researchers depend on visual counting	---

			d UA P	of pests and crop. Immediately start spray for pest/disease without calculating the consequences of pesticides control. The resistant varieties characterized by the proposed novel system (EPG-HPR) will avoid blanket spray and minimized cost of farmer's input with more yields. The develop product will be a major source of income for institutions and related industries at national level.	
				Rs 4.8 million	---

BOOK CHAPTER PUBLISHED

1. **Title of Book Chapter:** Integrated Bio-Based Nematode Management in Potato Agroecosystems

Name of the Book: Solanum tuberosum - Bio-Based Strategies for Sustainable Production
Authors: Ishrat Naz, Asad Ali, Shah Alam Khan, Maria, Hamayoon Khan, Aisha Bibi, Taimur Iqbal and Naseer-Ud-din
Published on: 03 June, 2026
DOI Number: *http://dx.doi.org/10.5772/intechopen.1014657*
Book Link: https://www.researchgate.net/publication/405879746_Perspective_Chapter_Integrated_Bio-Based_Nematode_Management_in_Potato_Agroecosystems
Chapter Links: http://creativecommons.org/ licenses/by/4.0/

2. **Title of Book Chapter:** Weed induced losses in Pakistan: economic liability, herbicides reliance and sustainable solutions

Name of the Book: Current Concept and Innovative Research in Agriculture, Forest and Water Issues
Authors: Haroon Khan, Ömer Süha USLU, Shah Alam Khan, Osman GEDİK
Published on 03 March, 2026
Print ISBN: 978-625-8536-24-9 (pp 108-122)
DOI Number: https://doi.org/10.9734/bpi/eias/v5/5677B
BookLink: https://www.researchgate.net/publication/401502112_CURRENT_CONCEPTS_AND_INNOVATIVE_RESEARCH_IN_AGRICULTURE_FOREST_AND_WATER_ISSUES,
Book link: www. allsciencesacademy.com: allsciencesacademy@gmail.com
Chapter Links: https://stm.bookpi.org/EIAS-V5/issue/view/1109

3. **Title of Book Chapter:** Testing Putative Factor and Categories of Resistance in Wheat to *Schizaphis*,

Graminum (Rondani) Using, Direct Current Electrical Penetration Graph (Dc-Epg) Technique.
Name of the Book: Emerging Issues in Agricultural Sciences Vol. 5
Authors: Shah Alam Khan and Khwaja Junaid
Published on July 04, 2023
Print ISBN: 978-81-19315-73-4 **Online ISBN:** 978-81-19315-71-0
DOI Number: https://doi.org/10.9734/bpi/eias/v5/5677B
Book Link: https://www.bookpi.org/bookstore/product/emerging-issues-in-agricultural-sciences-vol-5/
Chapter Links: https://stm.bookpi.org/EIAS-V5/issue/view/1109

MEMBERSHIP IN SCIENTIFIC SOCIETIES/ ORGANIZATIONS

- **Life Fellow in Zoological Society of Pakistan**
- **Entomological Society of America (ESA USA)**
- **Member of editorial board of Sarhad Journal Agriculture 2016-2019**
- **Associate Auditor Sarhad Journal Agriculture**
- **Reviewer of Current Agriculture Research Journal (CAR)**

LIST OF HEC RECOGNIZED PUBLICATIONS:

1. Shabir Ahmed, Khwaja Junaid, Muhammad Salman, Muhammad Hamayoon Khan, **Shah Alam Khan**. 2026. Radio-Tolerance of various Developmental Stages of Striped Mealybug, Ferrisia virgata (Hemiptera: Pseudococcidae) to Gamma Irradiation Doses. Planta Animalia. Volume 5, Issue 2. 161-170. DOI: 10.71454/PA.005.02.0388. ISSN: 2958-6003(Online), 2958-6011 (Print)
2. Falak Naz, Mohammad Sohail, Azmat Noreen Sajid Ali, Hasnain Khan, Lubna Shakir, Shakir Ullah, **Shah Alam Khan**. 2026. Phytoclimatic Patterns and Seasonal Variation in Plant Life Forms and Leaf Size Spectra in District Dir Lower, Pakistan. Pakistan J. of Weed Science Research. https://creativecommons.org/licenses/by/4.0/
3. **Shah Alam Khan**, Shafique. A. Memon, Amir K Korai, Shah M. 2026. Light-Driven Behaviors in Insects: Photo taxis and Photo Tactic Based Strategies for Pest Management; A Comprehensive Review. Annual Methodological Archive Research Review. 4(1): 426-443. http://amresearchreview.com/index.php/Journal/about.
4. Imtiaz Khan, Muhammad Ibrahim, Muhammad Khan, Muhammad Saleem, Shah Khan, Ijaz Khan, Haroon Khan, Zahid Hussain, Muhammad Ilham, Shomayela Afzal, Bakhtiar Gul, Naeem Khan, Muhammad Khan, Muhammad Saeed, Khan Farhan, Abdullah, I & Muhammad Ibrahim, **Shah Alam Khan**, Muhammad Saleem, Khan, Md Mauruf Khan. 2025. Optimizing chickpea production through strategic management of Asphodelus Tenuifolius Cav. J. of weed science Research.Vol 31 (4): 258 - 265. https://www.researchgate.net/publication/410952345_Optimizing_chickpea_production_through_strategic_management_of_Asphodelus_Tenuifolius_Cav.
5. **Shah Alam Khan**. 2025. Efficacy of different pesticides against Mustard aphid Liphaphis erysimi in Selected Mustard cultivar. Pakistan j. of Research. Vol. (35) 379-471. 10.17582/Journal.pjr/2022/35.2.371.379
6. Uran Abazi, Punhoon Khan Korai, Ammar Rasheed, Dost Jan, **Shah Alam Khan***, Fazal Abbas, Aidah Baloch and Hammad Ali. 2025. Evaluation of different nickel doses on soil nutritional aspects and seedlings growth of canola. Annual Methodological Archive Research Review. 3(10): 36-47. http://amresearchreview.com/index.php/Journal/about.
7. **Shah Alam Khan**, Palwasha Qazi, Yusaf hayat, Khwaja Junaid, (2025). Evaluation of synthetic and bio-pesticides against mustard aphid Lipaphis erysimi (kalt) (Homoptera: Aphididae) in canola cultivars. International Journal of Agriculture Innovations and Cutting-Edge Research. 3(3): 121-134. https://zenodo.org/records/17110776
8. Ishrat Naz, Nawaz Ali, **Shah Alam Khan**, Hafsa Naeem, Maria, Taimur Iqbal, Syeda Maryam Hussain, Aisha Bibi, **(2025)** Rhazya stricta Decne (Apocynaceae) "Harmal": A medicinal plant with bio control potential against Meloidogyne incognita in tomato. Crop Protection, Volume (194) 107219 **https://doi.org/10.1016/j.cropro.2025.107219.(https://www.sciencedirect.com/science/article/pii/S0261219425001115)**
9. Salim, M., A. Qadar, A.U.R. Saljoqi, S.S. Khan, A. Usman, H. Khan, **S.A. Khan**, B. Ahmad and A. Gokce. (2025). Effects of different seed dressers and varietal response of maize against maize stem

borer, Chilo partellus (swinhoe) (lepidoptera: pyralidae) infestation. Sarhad Journal of Agriculture, 41(2): 842-851. **DOI | https://dx.doi.org/10.17582/journal.sja/2025/41.2.842.851**

10. Muhammad Salim, Arsalan Arif, Muhammad Ayaz, Ahmad Ur Rahman Saljoqi, Ayhan Gökçe, Haroon Khan, Shahid Sattar, Bashir Ahmad & **Shah Alam Khan** (2025). Impact of synthetic insecticides on the life table parameters of Trichogramma chilonis under laboratory conditions. Scientific Reports 390015 | https://doi.org/10.1038/s41598-025-87153-x 19
11. **Khan. S. A**, Umaish R, Basit. A. Muhammad, W,H. Mumtaz M. Asim, K. Junaid and H. Zubair. **(2025**) The Utilization of Artificial Intelligence in Agriculture to Optimize Irrigation and the Application of Pesticides and Herbicides Dialogue Social Science Review. Vol. 3 (1): 1159-1173.
12. **Khan S.A**, Hassan Z, Rathnayake R.M.I.P.A.K, (Abeysekara, A.I.K) P. Khan, Korai H, Mumtaz, M. Kamran (**2025**). Pulses Based Cropping System under Changing Climate in Pakistan. Dialogue Social Science Review Vol. 3 No. 2 pp-342-376.
13. **Khan S A**, Iftikhar H. U, Punhoon K. K, Sumia H. A, Mumtaz. H. Besim Z. Shehzad, S. Uran A **(2025**). Potassium Silicate Decreases Nickel Induced Oxidative Stress by Improving Nutrients Uptake and Antioxidant Defence System in Sunflower. Indus Journal of Bioscience Research. Vol (3) 4. 129-137
14. Abdullah **Khan. S.A**.,Waseem. H.A. Khan. Q. Palwasha N. (2024) Management of Wheat Aphid S. graminum (RONDANI) (Homoptera, Aphididae) Through Various Control Strategies and Their Effect on Yield. Journal of Liaoning Technical University (Natural Science Edition) 18 (2):102-124
15. Hina N. **Khan. S.A**. (2024). Molecular Characterizations Of BYDV Genes In CIMMYT Elite Wheat Genotypes Kurdish Studies Volume: 12, No: 5, pp 1208-1218 www.KurdishStudies.net DOI: 10.53555/ks.v12i5.3453
16. Zafarullah Khan, Shah Alam Khan, Tamana Bakht, Luqman, Noor Muhammad, Noor Muhammad, Naeem Khan, Iqbal Munir, Ruqayya Qazi and Shazia. (2024). Exploring Incidence of Potato Viruses in Major Growing Areas of Potatoin Khyber Pakhtunkhwa, Pakistan. Pakistan Journal of Weed Science Research. 30(2). Pp:86-94.
17. Khwaja Junaid and **Shah Alam Khan**. (2023). Compatible and Non-Compatible Interaction of Rice Germplasms against Rice Leaf Folder Cnaphalocrocis medinalis (Guenee) (Lepidoptera: Pyralidae). Pakistan J. Zool., vol. 55(6), Pp 2671-2676. DOI: https://dx.doi.org/10.17582/journal.pjz/20220920060917
18. Khan, I., B. Ahmad, A.R. Saljoqi, **S.A. Khan**, J. Khan and M.A. Khan. (2023). Population trend of sugarcane leafhopper Pyrilla perpusilla on different sugarcane varieties with biotic and abiotic factors. Sarhad Journal of Agriculture, 39(2): 495-509.
    a. DOI | https://dx.doi.org/10.17582/journal.sja/2023/39.2.495.509
19. **Khan. S. A**; Israr A. and Y. Hayat. (2022) Management Of Canola Aphid (Lipaphis Erysimi (Kalt); Hemiptera: Aphididae) Through Different Control Tactics. Kurdish Studies Volume: 10, No: 1, pp 234-240 ISSN: 2051-4883. ISSN 2051-4891 (Online) www.KurdishStudies.net DOI: 10.53555/ks.v10i1.3780
20. Misbah ud Din, **Shah Alam Khan**, Said Hussain Shah and Najeeb Ullah, (2022) Efficacy of different pesticides against Mustard aphid *Liphaphis erysimi* in Selected Muatard cultivars. Pakistan Journal of Agriculture Research 35(2):471-379. http://dx.doi.org/10.17582/Journal.pjr/2022/35.2.371.379
21. Muhammad, N and **S. A. Khan.** (2022). Screening of Selected Canola Genotypes against Mustard Aphid (Liphaphis erysimi (K.) Hemiptera: Aphidoidea) through Antixenosis and Antibiosis Assays. Pakistan J. Zool., pp 1-8, 2022. DOI:https://dx.doi.org/10.17582/journal/20220418050415

22. Muhammad, N and **S. A. Khan**. (2022). Screening of Selected Canola Cultivars for Yield and Tolerance against Mustard Aphid, Liphaphis erysimi Kalt. (Hemiptera: Aphidoidea). Sarhad Journal of Agriculture. 38, (2): 497-503.
23. Dawar. K., S. U. Rahman, S. Fahad, S. S. Alam, **S. A. Khan**, A. Dawar, U. Younis, S. Danish, R. Datta, and R. P. Dick. (2021). Influence of variable biochar concentration on yield-scaled nitrous oxide emissions, Wheat yield and nitrogen use efficiency. Scientific Reports. Manuscript id: 7d4cfeaa-d83f4ce8-ac14-c5042c1f01f4.
24. M. Irfan, M. Mudassir, M. J. Khan, K. M. Dawar, D. Muhammad, I. Ahmad Mian, W. Ali, S. Fahad, S. Saud, Z. Hayat, T. Nawaz, **S. A. Khan**, S. Alam, B. Ali, J. Banout, S. Ahmed, S. Mubeen, S. Danish, R. Datta, A. M. Elgorban & R Dewil. (2021). Heavy metals immobilization and improvement in maize (Zea mays L.) growth amended with biochar and compost. Scientific Reports. 11:18416. https://doi.org/10.1038/s41598-021-97525-8
25. Sadar Quaid, **Shah Alam Khan** , Ahmad-Ur-Rahman Saljoqi , Javid Khan and Imtiaz Khan (2019) Performance of different insecticides against tobacco cutworm, budworm and aphids vol. 15, No. 1, p. 499-505, International Journal of Biosciences (IJB)
    a. DOI: http://dx.doi.org/10.12692/ijb/15.1.
26. Khan., Z, **S. A. Khan**, N. Khan and N. Muhammad. (2019). "Efficacy of Aqueous Plant Extracts and Pesticide Against Okra Fruit Borer in Commercial Okra Cultivars". Acta Scientific Agriculture. 3.12: 81-84.
27. Nisar H, **Khan S. A**, Khan Z, AUR Saljoqi, Hussain S and Muhammad N. (2018). Relative susceptibility of four wheat cultivars against Angoumois grain moth Sitotroga cerealella (Olivier) (Lepidoptera: Gelechidae). Journal of Entomology and Zoology Studies 2018; 6(3): 379-382.
28. Muhammad. N and **S. A. Khan**. (2017). Categorization of commercial canola cultivars resistant to aphids (l. Erysimi k.) Through phenotypic characters. Proc. Pakistan conger. Zool., vol. 37, pp. 1-12
29. Khan, Z., **S. A. Khan**, H. Khan, N. Khan, K. Junaid and I. Khan. (2017). Seven Local Commercial Wheat Cultivars Tested for Resistance against Rhopalosiphum padi L. in Pakistan. Pakistan J. Zool., vol. 49(3), pp 793-799, DOI: http://dx.doi.org/10.17582/journal.pjz/2017.49.3.793.799
30. Junaid. K., **S. A. Khan** I. Ullah, S.R.A. and Z. Khan. (2016). Study on different Components of Resistance in Wheat Genotypes to Green Bug (Schizaphis graminum). Pak. J. Zool., 48(4), pp. 981-987
31. Sadar Quaid, **Shah Alam Khan**, Ahmad-Ur-Rahman Saljoqi, Javid Khan and Imtiaz Khan (2016) Performance of different insecticides against tobacco cutworm, budworm and aphids. International Journal of Biosciences. Vol. 15, No. 1, p. 499-505.
    a. Doi: http://dx.doi.org/10.12692/ijb/
32. Qamar Z., M. Naeem, **S. A. Khan** and S. Ahmad. (2016). Effect of Insecticides on the Population of Aphids, Natural Enemies and Yield Components of Wheat. Pak. J. Zool., 48(6), pp. 1839-1848
33. Wahid F, M. Sharif, S. Steinkellner. M. A. Khan, K.B. Marwat And **S. A. Khan**. (2016). Inoculation Of Arbuscular Mycorrhizal Fungi And Phosphate Solubilizing Bacteria In The Presence Of Rock Phosphate Improves Phosphorus Uptake And Growth Of Maize. Pak. J. Bot., 48(2): 739-747
34. Khan I., N. Qureshi, **S. A. Khan**, A. Ali, S. R. A. Shah and Z. Khan. and K. Junaid. (2016). Efficacy of Several Plant Extracts as Growth Inhibitors against Red Flour Beetle, Tribolium, castaneum Herbs (Coleoptera Tenebrionid Acta Zool. Bulg. 68 (3), 443-450
35. Khan, M. A., F. Wahid, Umme-Kulsoom, K. B. Marwat, B. Gul, M. Inayatullah, A.M. Khattak and **S.A. Khan**. (2015). Evaluating the threshold levels of neslia apiculata in wheat and Its effects on crop yield losses in swat valley of Khyber Pakhtunkhwa. Pak. J. Bot., 47(SI): 87-91

36. **Khan S. A**., J.C. Reese, C. Predeesh, M. Murugan and Y. Hayat. (2015). Categories Of Resistance In Wheat To Green Bug Schizaphis, graminum (Rondani) Through A Novel Technique Direct Current Electrical Penetration Graph (DC-EPG). Pak. J. Bot., 47(Si): 307-312
37. Qamar Z., M. Naeem, S. Ahmad and **S. A. Khan.** (2015). Seedling Bulk Test (Mass Screening) Of Fifty Wheat Genotypes Against Schizaphis graminum (Rondani) (Aphididae: Hemiptera) J. Ent And Zoo. 3(6): 360-365
38. Shah S. R. A., **S. A. Khan**, K. Junaid, S. Sattar, M. Zaman, N. Saleem And M. Adnan. (2015). Screening Of Mustard Genotypes For Antixenosis And Multiplication Against Mustard Aphid, Liphaphis erysimi (Kalt) (Aphididae: Homoptera). J. Ent And Zoo. 3(6): 84-87
39. Shah S. R. A., **S. A. Khan**, A. U. R. Saljoqi, K. Junaid, I. Khan, M. Zaman, F. Said, M. Adnan And N. Saleem. (2015). Assessment Of The Varietal Preference And Resistance Against Liphaphis erysimi (K.) In Segregating Mustard Genotypes Under Agro-Ecological Conditions Of Peshawar, Pakistan. J. Ent And Zoo. 3 (5): 100-103
40. **Khan S. A**., M. Marimuthu, C. Predeesh, Lina M. Aguirre-Rojas, John C. Reese And C. Michael Smith. (2015). Electrical Penetration Graph Recording Of Russian Wheat Aphid (Hemiptera: Aphididae) Feeding On Aphid-Resistant Wheat and Barley. J. Economic. Entomology.108 (5):2465-2470
41. Qamar Z., S. I. Rondon, M. Naeem, **S. A. Khan**, A. Goyer, S. V. Vleet and M. K. Corp. (2015). Categorization of Putative Factors Against Rhopalosiphum padi (L.) (Heteroptera: Aphididae). J. Economic Entomology. 1–6
42. Zahid, M., Salman M, A.Farid, **S.A. Khan** and K.Habib. (2015). Control for Managing Peach Flat-Headed Borer, Sphenoptera dadkhani (Oben.) (Coleoptera: Buprestidae). Pakistan J. Zool., vol. 47(6), pp. 1771-1776.
43. Zahid, M., M.Salman, **S.A. Khan** and I.Ullah. (2015). Surveillance and Control of Peach Flat-Headed Borer, Sphenoptera Dadkhani (Oben.) in Plum Orchards of Khyber Pakhtunkhwa, Pakistan SJA 31(1):30-36
44. Arif M, M. T. Jan, I.A. Mian, **S.A. Khan**, P. Hollington And D. Harris. (2014). Evaluating the Impact of Osmopriming Varying with Polyethylene Glycol Concentrations And Durations On Soybean. Int. J. Of Agri & Bio. 16 (2): 359–364
45. Kamran K., G. D. Khan, S. U. Din, **S. A. Khan** And W. Ullah. (2014). Evaluation of Different Wheat Genotypes Against Rice Weevil (Sitophilus oryzae (L.) (Coleopteran: Curculionidae) J. Of Bio Agric. And Healthcare. 4(8): 2224-2228
46. Hafiz F. A., A. Bibi, M. Ahmad, M. Junaid, A. Ali, S. Hussain, **S. A. Khan** and S. Alam. (2014). Characterization of The Causal Organism of Blackleg and Soft rot Of Potato, And Management of The Disease with Balanced Fertilization. Pak. J. Bot., 46 (6): 2277-2284
47. Hafiz F. A., M. Junaid, M. Ahmad, A. Bibi, A. Ali, S. Hussain, **S. A. Khan** And J. A. Shah. (2013). Molecular and Pathogenic Diversity Identified Among Isolates of Erwinia Carotovora sub-Species Atroseptica Associated With Potato Blackleg And Soft Rot. Pak. J. Bot., 45(3): 1073-1078
48. Predeesh C, J. C. Reese, **S. A. Khan**, D. Wang, W. Schapaugh, And L. R. Campbell. (2013). Feeding Behavior Comparison Of Soybean Aphid Hemiptera: Aphididae) Biotypes On Different Soybean Genotypes. J. Economic. Entomology. 106 (5): 2234-2240
49. N. Khan, Hashmatullah, K. Naveed, Z. Hussain and **S. A. Khan**. (2012). Assessment of Allelopathic Effects Of Parthenium (Parthenium hysterophorus.) Plant parts on Seed germination and seedling growth of wheat (Triticum estivum L.). Pak. J. Weed Sci. Res. 18 (1): 39-50.
50. N. Khan, N. W. **Khan, S. A**. Khan, M. A. Khan And K. B. Marwat. (2012). Combined Effect Of Nitrogen Fertilizers And Herbicides Upon Maize Production In Peshawar. J. Of Animal And Plant. Sci, 22 (2): Page: 12-17

51. I, Ullah, G. Saqib, M. Ayub, Khan, S. Anwar and **S.A. Khan**. (2012). Response of common buckwheat to nitrogen and phosphorus fertilization. Sarhad J.Agric. 28 (2):171-178
52. Khan, M. J., M. T. Jan, F. Ullah, **S. Alam** and A. U. Jan. (2011). The effect of using waste water for tomato. Pak. J. Bot., 43 (2): 1033-1044
53. M. Murugan; **Khan S.A**; S. Starkey and CM Smith. (2010). Variation of resistance in Barley against biotype of the Russian Wheat Aphid, Diuraphis noxia biotypes. J. Economic Entomology: 103 (3) 938-948.
54. **S. A. Khan**, M. Murugan, S. Starkey, A. Manley and CM Smith. (2009). Categories and inheritance of resistance in wheat against Russian Wheat Aphid, Diuraphis noxia". Journal of Economic Entomology. 102 (4) 1654-1662.
55. **Khan, S. A.** N. Hussain, Farmanullah and Hayat, Y. (2007). Screening of wheat genotypes for resistance against cereal aphid.Sarhad Journal of Agriculture. 23 (2):427-434.
56. **Khan, S. A**., N. Hussain, Farmanullah, Hayat, Y. and Shahid, S. (2007). Natural enemies of cereal aphids in NWFP of Pakistan. Sarhad Journal of Agriculture. 23 (2):435-439.
57. **Khan, S. A**. Farmanullah, N. Hussain, AUR. Saljoki, Hayat, Y.and Shahid, S. (2006). Distribution pattern of cereal aphids in wheat growing areas of the NWFP Pakistan. Sarhad Journal of Agriculture. 22 (4):656-659.
58. Saljoki, AUR, M,Khan; **S. A. Khan** and Said, R. (2007). Effect of six plant extracts on Rice weevil Sitohilus oryzae in stored wheat grain. Pakistan journal of biological sciences. 1(2):1-5.
59. Saljoki, AUR, Said, R. N Husain and **S. A. Khan**. (2007). Insect pest of canola crop other than aphid. SJA. 1(2):1-5.
60. Alam S.S. Mushraf, M., **S. A. Khan**. A. Usman Mia I. A. and Naveedullah. (2007). Variation in garlic varieties for reaction to natural infection of Puccnia porri wint and Alternaria porri clif at Swabi, NWFP. Sarhad Journal of Agriculture. 23 (1):149-152.
61. Musharaf. A,.Alam S. S., **S. A. Khan**, A.Usman and David, C (2007). Export of the HR eliciting proteins Harpines of the maize pathogen Erwinia stewartia species-specific but is independent of the growth temperature. Pakistan of Biological science 10 (1):117-121
62. Ishrat, N., M. Ahmad, **S.A. Khan**, M. Tahir, F. Raziq. (2007). Control of Root and callor Rot disease, A serious threat to chillis production in NWFP. Sarhad Journal of Agriculture. 23 (2): 451-453.
63. Mansoor, K.K. A Q. Mughal, Liaqat, A. Jamal **S. A. Khan.** and M.Z. Khan. (2007). Economic evaluation of deep tillage practices under maize fallow rotation. Sarhad Journal of Agriculture. 23 (2):365-370.
64. Naimatullah, K. F. Ullah, K. Usman, **S.A. Khan**. (2007). Growth and yield related chactristics of improved commercial cotton cultivars. Sarhad Journal of Agriculture. 23 (2):261-263.
65. Naimatullah, K. F. Ullah, K. Usman, **S.A. Khan**. (2007). Performance of selected cotton cultivars for yield and fiber related parameters. Sarhad Journal of Agriculture. 23 (2): 257-259.
66. **Khan S.A**. N. Hussain, Saljoki, AUR and Hayat Y. (2006). Resistance of maize variety 'Jalal' against corn leaf aphid R. maidis, its impacts on density and effect on yield and yield components. Journal of Biological Sciences.1 (2):30-34.
67. Khan, N., G. Hassan, K. Naveed, **S. A. Khan** and Z. Hanif. (2006). Effect of Maize (Zae mays) planting densities on various growth parameters of Barnyard grass (Echinochlo crusgalli) and maize. Int. J. Biol. Biotech. 14(1):123-128,
68. Musharraf, M. S. S. Alam, **S. A. Khan** and N. Ahmad. (2006). Evaluation of wheat germplasm against yellow Rust (puccinia striformis F.sptritici) under natural conditions. Journal of Agriculture. 22 (4):661-665.
69. Anis, UR. **S. A. Khan**, R. Shah. W. Hassan and A. Rauf. (2000). Efficacy of an insect growth inhibitor (IGI) against Helicoverpa armigera (Hubner) (Lepidoptera: Noctuid) on potato in Nowshera, NWFP. Sarhad Journal of Agriculture. 16 (1):81-83.

70. Ali, A. Farmanullah and **S. A. Khan**. (1999). Efficacy of various insecticides and trap heights in Methyl Eugenol baited traps against fruit flies. Sarhad Journal of Agriculture. 15 (6): 590-594.
71. **Khan, S. A**. N. Hussain, I. A. Khan, M. Khan and M Iqbal. (1998). Study on weed control in maize crop. Sarhad Journal of Agriculture. 14 (6):581-586.

MEMBERSHIP IN DIFFERENT UNIVERSIY COMMMITTEES

1.	Invitation to Capitalization of Experience (CapEx) Workshop- Resource Efficient Food Production in Pakistan (Re-Food Project)	Member	22.01.2025
2.	Scrutiny Committee Meeting	Member	28.01.2026
3.	Appellate Committee Meeting	Convener	10.03.2026
4.	All Chairman Meetings of Faculty of Crop Protections Sciences	Convener	07.04.2026
5.	Meeting of the Board of Faculty	Convener	21.04.2026
6.	Streeting Committee Meeting	Member	06.05.2026
7.	Short brief for the Vice Chancellor Visit to Amir Muhammad Khan Campus/ Research Farm Mardan	Member	08.05.2026
8.	Time Barred Committee Meetings	Convener	13.05.2026
9.	Meeting of the Committee on Draft Conflict of interest policy	Convener	13.05.2026
10	National Security & Strategic Leadership Workshop	Member	18.05.2026
11	Meeting to Review the Seniority list of Ministerial staff	Convener	11.06.2026
12	Meeting to Brainstorm and design a full proposal of MS and Ph.D Program in Forestry	Convener	06.08.2026
13	Meeting of the E-Khuli Kacherhris	Member	13.08.2026
14	Faculty Admission Committee Meetings	Convener	20.08.2026
15	Meeting for Finalization of NAVTTC Training Courses	Member	04.09.2026
16	Go Green Advisory Committee	Member	15.09.2026
17	Meeting of Advance Studies & Research Board	Member	17.09.2026
18	Board od Studies Meeting	Member	18.09.2026
19	Meeting of the Syndicate	Member	18.09.2026
20	Academic Council Meeting	Member	22.09.2026
21	Meeting of Institutional Quality Circle	Member	22.09.2026
22	Construction of Link Roads from University Road to Ring Road, Northern Sections	Convener	02.10.2026
23	Food Safety and Scientific Experts Committee	Member	06.10.2026

Ph.D. Scholars Supervised/mentored

S.No	Name of Scholar	Year	Status	Degree Status
1.	Mr. Qamar Zeb	2016	Major Supervisor	Completed
2.	Mr. Zafarullah	2020	Major Supervisor	Completed
3.	Mr. Noor Muhammad	2021	Major Supervisor	Completed
4.	Mr. Khwaja Junaid	2023	Major Supervisor	Completed
5.	Miss. Hina Nisar	2023	Major Supervisor	Completed
6.	Mr. Sarir Ahmad	2022	Co-Supervisor	Completed
7.	Mr. Saeed Khan	2021	Major Supervisor	Thesis stage
8.	Mr. Syed Rizwan Shah	2020	Co-Supervisor	Thesis stage
9.	Mr. Riaz ul Haq	2021	Co-Supervisor	Thesis stage
10.	Mr. M. Shehzad Khan	2022	Co-Supervisor	Research stage
11	Mr. Imtiaz Khan	2022	Co-Supervisor	Completed

MS/M.Phil. Students Supervised:

S. No	Name of Scholar		Status	Degree Status
1.	Mr. M. Naveed Shah	2008	Major Supervisor	Completed
2.	Mr. Qazi Jabir Alam	2009	Major Supervisor	Completed
3.	Mr. Nasir-ud-Din	2009	Major Supervisor	Completed
4.	Miss. Aneela Kanwal	2011	Major Supervisor	Completed
5.	Mr. Zafarullah	2012	Major Supervisor	Completed
6.	Mr. Muhammad Salman	2013	Major Supervisor	Completed
7.	Mr. Kamran Khan	2014	Major Supervisor	Completed
8.	Mr. Khwaja Junaid	2014	Major Supervisor	Completed
9.	Mr. Rizwan Ali Shah	2014	Major Supervisor	Completed
10.	Mr. Nasir Muhammad	2015	Major Supervisor	Completed
11.	Mr. Sohaib Durrani	2015	Major Supervisor	Completed
12.	Miss. Hina Nisar	2016	Major Supervisor	Completed
13.	Mr. Atif Ali	2016	Major Supervisor	Completed

14.	Mr. Sadar Quaid	2016	Major Supervisor	Completed
15.	Mr. Shehryar Khan	2019	Major Supervisor	Completed
16.	Mr. Inzimam-Ul-Haq	2020	Major Supervisor	Completed
17.	Miss. Sehrish Tariq	2021	Major Supervisor	Completed
18.	Mr. Ihsan-Ul-Haq	2021	Major Supervisor	Completed
19.	Mr. Ubaid Hussain	2021	Major Supervisor	Completed
20.	Zunash Khan	2021	Major Supervisor	Completed
21.	Mr. Hamad Akhtar	2022	Major Supervisor	Completed
22.	Mr. Shah Rukh	2022	Major Supervisor	Completed
23.	Mr. Misbah-Ud-Din	2022	Major Supervisor	Completed
24.	Miss. Amina Gul	2022	Major Supervisor	Completed
25.	Miss. Ayesha Israr	2023	Major Supervisor	Completed
26.	Miss. Farishta	2023	Major Supervisor	Completed
27	Namat Gul	2023	Major Supervisor	Completed
28.	Mr. Mustafa	2023	Major Supervisor	Completed
29.	Mr. Ijaz Ahmad	2023	Major Supervisor	Completed
30.	Mr. Khadim Hussain	2022	Major Supervisor	Completed
31	Abdullah Khan	2023	Major Supervisor	Completed
32.	Mr. Saquib Marwat	2024	Major Supervisor	Completed
33.	Mr. Muhammad Javed	2022	Major Supervisor	Completed
34.	Mr. Muhammad Hussain	2022	Major Supervisor	Synopsis
35.	Mr. Bilal Khan	2022	Major Supervisor	Synopsis

BSc (Hons) Students Supervised

S. No	Name of scholar	Year	Status	Degree status
1	Mr. Gul Muhammad	2007	Major Supervisor	Completed
2	Mr. Kamran khan	2011	Major Supervisor	Completed
3	Mr. Rizwan Ali shah	2011	Major Supervisor	Completed
4	Mr. Aftab Ali	2012	Major Supervisor	Completed
5	Mr. Shah Nawaz	2012	Major Supervisor	Completed
6	Mr. Suhaib Durrani	2012	Major Supervisor	Completed
7	Mr. Muhammad Arif khan	2013	Major Supervisor	Completed
8	Mr. Noor Elahi	2015	Major Supervisor	Completed
9	Mr. Naqeeb Ullah	2015	Major Supervisor	Completed
10	Mr. Shah Muhammad	2015	Major Supervisor	Completed
11	Mr. Saddam Ali	2016	Major Supervisor	Completed

12	Mr. Ashfaq Ahmad	2016	Major Supervisor	Completed
13	Mr. Obaid Ullah	2016	Major Supervisor	Completed
14	Mr. Sajjad Mehmood	2016	Major Supervisor	Completed
15	Mr. Asif Iqbal	2016	Major Supervisor	Completed
16	Miss. Nayab	2016	Major Supervisor	Completed
17	Mr. Muhammad Zahid	2016	Major Supervisor	Completed
18	Mr. Sayyad Taimoor	2016	Major Supervisor	Completed
19	Mr. Inzamam Ul Haq	2016	Major Supervisor	Completed
20	Mr. Misbah Ud Din	2018	Major Supervisor	Completed
21	Mr. Muhammad Malook	2018	Major Supervisor	Completed
22	Mr. Muhammad Asad	2017	Major Supervisor	Completed
23	Mr. Yasir Khan	2018	Major Supervisor	Completed
24	Mr. Israr Ullah	2018	Major Supervisor	Completed
25	Mr. Ijaz Ahmad	2019	Major Supervisor	Completed
26	Mr. Muhammad Javid	2019	Major Supervisor	Completed
27	Mr. Shehzad Ahmad	2019	Major Supervisor	Completed
28	Mr. Muhammad Hussain	2019	Major Supervisor	Completed
29	Mr. Khadim Hussain	2019	Major Supervisor	Completed
30	Mr. Sana Ullah	2019	Major Supervisor	Completed
31	Mr. Adnan Khan	2021	Major Supervisor	Completed
32	Miss. Aysha Israr	2021	Major Supervisor	Completed
33	Mr. Abdullah	2021	Major Supervisor	Completed
34	Mr. Riaz Ahmad	2021	Major Supervisor	Completed
35	Mr. Abdur Rahman	2021	Major Supervisor	Completed
36	Mr. Muhammad Hassan	2021	Major Supervisor	Completed
37	Mr. Hamza Khan	2021	Major Supervisor	Completed
38	Mr. Muhammad Zubair	2021	Major Supervisor	Completed
39	Mr. Hazrat Ali Khan	2021	Major Supervisor	Completed
40	Mr. Muhammad Arif	2021	Major Supervisor	Completed

41	Miss. Shehla Akbar	2021	Major Supervisor	Completed
42	Mr. Shahbaz Khan	2021	Major Supervisor	Completed
43	Mr. Waheed Ullah	2021	Major Supervisor	Completed
44	Mr. Shahid Iqbal	2021	Major Supervisor	Completed
45	Mr. Abu Huraira	2021	Major Supervisor	Completed
46	Miss. Farishta Nooreen	2021	Major Supervisor	Completed
47	Mr. Muhammad Zubair	2022	Major Supervisor	Completed
48	Miss. Bushra Ghaffar	2022	Major Supervisor	Completed
49	Mr. Saqib Ali shah	2022	Major Supervisor	Completed
50	Mr. Azam Khan	2022	Major Supervisor	Completed
51	Mr. Fahim Ullah	2022	Major Supervisor	Completed
52	Miss. Saiqa Khattak	2022	Major Supervisor	Completed
53	Miss. Asia Bibi	2022	Major Supervisor	Completed
54	Mr. Zia Ullah	2022	Major Supervisor	Completed
55	Mr. Suliman	2022	Major Supervisor	Completed