

Dr. SAJIDA MUSHTAQ
(Ph.D. Zoology) HEC Approved Supervisor

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Name : **Sajida Mushtaq**
Father Name : Mushtaq Ahmad
Date of birth : 02 April, 1986
ID Card No. : 33202-9763677-2
Domicile : Jhang
Post PhD Experience : 10 Years, 06 Months Post PhD experience.
Permanent Address: Chah Sial wala, VPO Pakkay wala, Tehsil & District Jhang.
Postal address : Department of Zoology, Govt. College Women University Sialkot, Pakistan

POST PHD EXPERIENCE:

Designation	Experience		Institute/Universities
	From	To	
Assistant Professor	19 th May, 2014	18th May, 2015	G C Women University Faisalabad
Assistant Professor	20 th May, 2015	Till date	G C Women University Sialkot

QUALIFICATION:

Degree	Institute/Universities	Marks /Div/CGPA
Philosophy of Doctorate PhD (Zoolgy) 2013	University of Agriculture, Faisalabad	3.94/4.00
Master of Philosophy (M.Phil Zoology) 2009	University of Agriculture, Faisalabad	74.5% 3.57/4.00
Master of Science (M.Sc Zoology) 2007	University of Agriculture, Faisalabad	69.87% 1 st Div
Batcheler of Science B.Sc(Chem, Zool, Botany) 2005	University of Punjab, Lahore	60.6% 1 st Div
Intermediate F. Sc (Pre-medical) 2003	Board of Intermediate and Secondary Education Faisalabad	59.9% 2 nd Div
Matriculation 2001	Board of Intermediate and Secondary Education Faisalabad	78.8% 1 st Div
B.Ed (Science) 2007	Allama Iqbal Open University	74.0% 1 st Div

HONOURS AND AWARDS

- **Mentor in Women Empowerment and Mentoring Program** by NAHE (National Academy of Higher Education), Higher Education Commission (Jan-March 2025)
- **I Month training** on National Outreach Program for Higher Education Faculty **by NAHE, HEC**
- **HEC Approved Supervisor** (for MS and PHD Scholars)
- **Letter of Appreciation from Vice Chancellor, University of Agriculture, Faisalabad** (Submission of PhD Thesis in minimum time duration.
- **Indigenous fellowship** for PhD from HEC. PIN# 106-1564-BM6-129
- **Review Committee member of different Journals**
- **Associate Editor in** Pakistan Research Journal of Biological Sciences (PRBS)
- **Enlisted in Ranking for Scientist** by World Scientist and University ranking 2024
- **M.Sc and MPhil Thesis evaluation or Viva Examiner**

PROJECTS SUBMITTED

- Integrated Pest Management (IPM) Approach for Aphid Control: Incorporating Biological Control, Silver Nanoparticles, Chemical Control, and Molecular Docking Applications (**NRPU-2025**)
- Syrphids (Hoverflies) Diversity and potential as biological control against aphids for sustainable agro-ecosystem in Punjab, Pakistan. (**890,000 Scientific Committee Project Proposal, March, 2023**)
- Synergetic impact and eco-biological role of Syrphids (Hoverflies:Diptera) in selected agro-ecosystem of Punjab, Pakistan. (**4.98millions submitted in NRPU 2022**) at GCWUS
- Eco-biological role of Syrphids (Hoverflies: Diptera) to establish the synergies in selected agro-ecosystem of Punjab, Pakistan. (**9.14millions submitted in NRPU 2020**) at GCWUS
- Diversity and abundance of selected Dipteran Predators and their synergistic role in crop system of central Punjab, Pakistan. (**0.5 M \$ Submitted in HEC**) at GCWUF
- Diversity and relative abundance of selected invertebrate predators also the investigation of their predatory potential in crop systems of central Punjab, Pakistan. (**12, 000 \$, Submitted in IFS**). at GCWUF
- Diversity and relative abundance of Dipterans and their bioactivity with reference to ecosystem services in crop systems of central Punjab Pakistan (**10,000 \$, Submitted in ISESSCO**) at GCWUF

SERVICE ACTIVITIES At University Level

	Service Activity	From	To	Institute
	Hostel Warden FTZ, GCWUS (D/REG/Admn/25/416)	07-03-25	Till date	Govt. College Women University, Sialkot.
1	Members of Campus Management Committee (D/REG/Comm/25/412)	6-3-2025	Till date	Govt. College Women University, Sialkot.
2	Focal Person of Zoology	02-02-25	Till date	Govt. College Women University,

	department to deal with purchase matters (D/REG/FP/25/254)			Sialkot.
3	Member of Hostel Management Committee ((D/REG/Comm/25/66)	10-01-25	Till date	Govt. College Women University, Sialkot.
4	Convener/Focal Person <i>Dengue Management Committee</i> GCWUS	06-10-2023	Till date	Govt. College Women University, Sialkot.
5	Member of Preparation of 3 rd Cycle of Self- assessment Report at Department of Zoology	13-03-2023	Till date	Govt. College Women University, Sialkot.
4	Convener of Canteen Committee, GCWUS	27-01-22	Till date	Govt. College Women University, Sialkot.
5	Associate Editor of Pakistan Research Journal of Biological Department of Zoology, GCWUS	2020	Till date	Govt. College Women University, Sialkot.
6	Member of Departmental Research Program Committee'(DRPC)	04-12-2020	Till date	Govt. College Women University, Sialkot.
7	Member of Grievance Committee at GCWUS	22-01-2020	20-06-2020	Govt. College Women University, Sialkot.
8	Notified as member of visiting Appointment Committee for dept. of Zoology	20-01-2020	20-05-2020 Fall, 2021	Govt. College Women University, Sialkot.
9	HOD/Incharge Department of Zoology	05-11-2019	20-06-2020	Govt. College Women University, Sialkot.
10	Member of Board of Studies (BOS Department of Zoology) Subject Expert	2019	2022	University of Sialkot (USKT)
11	Member of Auditor/Assessment Team of Self-Assessment Report (SAR)	2018	2018	Govt. College Women University, Sialkot.
12	Self-Support Degree Program (SSDP) coordinator at department of Zoology	Sept, 2017	Till date	Govt. College Women University, Sialkot.
13	Departmental Incharge at Central Laboratory GCWUS	2017	Till Date	Govt. College Women University, Sialkot.
14	Viva Examiner for M.Sc and M.Phil thesis examination	2016	Till Date	University of Agriculture Faisalabad University of Sialkot
15	Member of Board of Studies (BOS Department of Zoology) since 2016 to 2020 GCWUS.	2016	2020	Govt. College Women University, Sialkot.
16	MS program Coordinator at Zoology department	2015	2018	Govt. College Women University, Sialkot.
17	Departmental Focal Person of Prime Minister Laptop distribution Scheme	2015	2018	Govt. College Women University, Sialkot

18	Coordinator of all Societies of GCWUS.	2015	2016	Govt. College Women University, Sialkot.
19	Coordinator for M.Phil and PhD program	May, 2014	May, 2015	Govt. College Women University, Faisalabad.
20	Member of Dengue Control Committee	May, 2014	May, 2015	Govt. College Women University, Faisalabad.
21	Member of inter-department programs organizing committee,	May, 2014	May, 2015	Govt. College Women University, Faisalabad.
22	Superintendent Fatima Hall (Girls Hostel)	18 th December 2014	18 th may, 2015	Govt. College Women University, Faisalabad.

SERVICE ACTIVITIES at Departmental level

Designation in Zoology Departmental Committees
<ul style="list-style-type: none"> ✚ <u>Member</u> of Zoological Society since 2022 ✚ <u>Member</u> of Discipline Committee at zoology department, GCWUS since 2022 ✚ <u>Convener</u> of Technical Committee for Equipment at zoology department, GCWUS since 2022 ✚ <u>Member</u> of Laptop Distribution Committee at department of Zoology 2023 ✚ <u>Member</u> of Chemical Committee at department of Zoology since 2022 ✚ <u>Member</u> of Departmental Fund Committee since 2021 ✚ <u>Convener</u> of Student Counselling Committee since 2022 ✚ <u>Convener</u> of Examination committee for Self-Support Degree Program (SSDP) Zoology since 2017 ✚ <u>Program Coordinator</u> Coordinate of Self Support Degree Program (SSDP) Zoology since 2017 ✚ <u>Member</u> of EHSAS Scholarship Committee ✚ <u>Convener</u> of Curriculum Committee since 2021 ✚ <u>LMS focal person</u> for SSDP Since 2017 ✚ <u>Timetable In charge</u> in SSDP Since 2017 ✚ <u>Member</u> of SAR Committee Since 2017

COURSES TAUGHT IN BS (hons) M.Sc and MS and PhD

- Research Methods in Entomology
- Synopsis and Research Methodology
- Advanced Analytical Techniques
- Principle in Animal Life I
- Principle in Animal Life II

- Animal form and function-I
- Animal form and function-II
- Introduction to Entomology
- Genetics
- Animal Behavior
- Environmental Biology
- Ecology
- Functional Animal Ecology
- Animal Diversity I
- Animal Diversity II
- Classification of insect pest of agriculture and pest management

RESEARCH ACTIVITIES

- 1) “Diversity and abundance of invertebrate fauna occurring on two wheat weeds *Chenopodium murale* and *Malva neglecta* ” (M.sc Thesis)
- 2) “Trophic status of fodder crops in district Faisalabad” (M.phil Thesis)
- 3) “Synergetic role of syrphids in crop system of Faisalabad” (PhD Thesis)

PhD Research Students Supervision as Supervisor-1/Supervisor-2

Sr.No.	Student's Name	Thesis Title	Year	Supervisor Category
1.	Ayesha Hafeez	Entomofaunal Diversity of Larval Parasitoids and Their Hosts in Heterogeneous Cultivated Vegetation of District Sialkot and DNA Barcoding of Selected Species.	2022 onward	Supervisor-2

MS RESEARCH STUDENTS SUPERVISED/CO SUPERVISED

MS Student Status	As Supervisor	As Co-Supervisor	Total
Complete	21	05	26
Continue	02	-	02

1. Suneela Nasrulla Reg# (15-M/GCW/ZOOL-01) Study of eco biology, diversity and relative abundance of insect fauna of maize and trifolium by using quadrat method from district Sialkot. (2019)
2. Saima Amin Bhutta (15-M/GCW/ZOOL-04). Effect of salting as ether extract and proteins of Rohu (*Labeo rohita*) and Mori (*Cirrhinus mirigala*) (2019)
3. Imza Rouf Butt Reg# (15-M/GCW/ZOOL-05). Effect of drying on protein Rohu (*Labeo rohita*) and Mori (*Cirrhinus mirigala*). (2019)

4. **Anum Sarwar Reg# (15-M/GCW/ZOOL-07)** Study of eco biology , diversity and relative abundance of insect fauna of maize and Berseem by using sweep method from district Sialkot, (2019)
5. **Salma Khurshid (15-M/GCW/ZOOL-06).** Effect of selected preservatives on ether extract and protein content of Rohu (*Labeo rohita*) and Mori (*Cirrhinus mrigala*) (Co-Supervised) (2019)
6. **Amna Ghani Reg# (15-M/GCW/ZOOL-02).** Assessment of diversity and relative abundance of insect fauna associated with wheat crop by using sweep method in district Sialkot (Co-Supervised). (2019)
7. **Ujala Kainat. (15-M/GCW/ZOOL-10).** Effect of freezing on ether extract and protein contents of Rohu (*Labeo rohita*) and Mori (*Cirrhinus mrigala*) (Co-Supervised) (2019)
8. **Sobia Sadiq (15-M/GCW/ZOOL-10).** Estimation of diversity and relative abundance of insect fauna associated with *Triticum aestivum* (Wheat) by using quadrat method in district Sialkot (Co-Supervised) (2019)
9. **Omema Qadeer (16-M/GCW/ZOOL-01).** Determination of concentration of selected metals Cadmium and Lead and their effects on insect fauna of *Brassica* crop irrigated with Tanneries waste water in district Sialkot. (2020)
10. **Rafia Ashraf (16-M/GCW/ZOOL-03).** Diversity and relative abundance of insect fauna from Brassica crop along the concentration of Chromium and Nickel in them irrigated with tanneries effluents in district Sialkot (2021)
11. **Humaira Javaid (17-M/Zool/09).** Effect of Rosemary and Green tea on Protein and fat contents of Rohu (*Labeo rohita*) and Mori (*Cirrhinus mrigala*) (2020)
12. **Urooj Malik Reg#17-M/Zool/10.** Effect of Garlic and Cinamon on Protein and fat contents of Rohu (*Labeo rohita*) and Mori (*Cirrhinus mrigala*) (2021)
13. **Humma Mujahid Reg#18-M/Zool/013** Determination of relative abundance of lepidopterans (order: lepidoptera) of selected agro-ecosystems of upper punjab (2021)
14. **Fizza Ali Reg#18-M/Zool/006** Determination of diversity and relative abundance of braconid larval parasitoids (hymenoptera: braconid) of selected agro-ecosystems of district Sialkot (2021)
15. **Rukhsar Gillani 18-M/Zool/002** Diversity and Impact of Selected Organophosphates on Most Abundant Ants of Order Hymenoptera (2022)
16. **Nazish Kanwal Reg#19-M/Zool/005** Assessment of the Impact of Selected Natural and Synthetic Insecticides on Eco-biologr of Svrphids. (2022)

- 17. Manal Javed Reg#19-M/Zool/017** Determination of Impact of Selected Natural and Synthetic Insecticide on Lepidopteran populations in agro-ecosystem of Sialkot, Pakistan (2022)
- 18. Tasneem Kauser Reg#19-M/Zool/021** Determination of Diversity of Aphids Order: Homoptera in District Sialkot and Assessment Potential of Their Selected Natural Enemies (2022)
- 19. Rooha Farooq Reg#19-M/Zool/022** Diversity and Relative abundance of Spiders Order: Araneae in cropland of district Sialkot and their feeding potential of selected preys. (2022)
- 20. Maryam Taha Reg#19-M/Zool/023** An In-vitro Biochemical Approach to Study Therapeutic Effects of Rumex hastatus against Triclosan Mediated Reproductive Toxicity in Male Rats (Co-Supervised, 2022)
- 21. Wajeeha Tanveer Reg#20-M/Zool/016.** Insecticidal impact on order Orthoptera and its diversity from crops System of district Sialkot. (2023)
- 22. Wisha Reg#20-M/Zool/023** Impact of selected insecticide on Dipteran populations and their diversity in crop system of district Sialkot. (2023)
- 23. Nishat Zulf Reg#20-M/Zool/025** Diversity and impact of selected insecticides on order Hemiptera in selected crops of district Sialkot. (2023)
- 24. Zainab Ikram 2021-GCWUS-1869.** (MS-Zool-009) Diversity of order Diptera in crop system of district Sialkot and Impact of Acephate and Profenofos induced in selected species (Completed 31 May-2024)
- 25. Zainab 2021-GCWUS-1883.** . (MS-Zool-023) Impact of insecticidal exposure on selected species of order Coleoptera and its diversity in crop system of district Sialkot. (Completed 25 June-2024)
- 26. Momna. 2021-GCWUS-1884.** (MS-Zool-024) Impact of Acephate and Profenofoson exposure on selected species of order Homoptera and its diversity in crop system of district Sialkot. (Completed 31 May-2024)
- 27. Zainab Ishfaq Roll#09.** Impact of Lethal and Sub Lethal Concentrations of Weedicide (Atlantis) and Insecticide (Dichlorovus) on Coleopteran Fauna Associated with Crop System of District Sialkot (Continued)
- 28. Roshan saeed Roll#16.** Assessment of Nuclear Abnormalities of Selected Insecticide and Weedicidal Exposure on Abundant Hemipteran Species of Agroecosystem in District Sialkot (Continued)
- 29. Momna 18-B/Zool/128.** Toxicological Impact of Atlantis and Dichlorovus for Order Diptera from Wheat Crop and its Associated Weeds in Sialkot (Continued)

- 30. Khadija** 2023-GCWUS-1842 Impacts of Extracts of Garlic (*Allium sativum*) and Neem (*Azadirachta indica*) on Bioactivities of Selected Species of Order Orthoptera.
- 31. Aqsa** 19-B/Zool/085 Effect of Garlic (*Allium sativum*) and Neem (*Azadirachta indica*) Extracts on Bioactivities of Selected Species of Order Lepidoptera.
- 32. Misbah Rehman** 2022-GCWUS-1980 Impact of *Pinus wallichiana* and *Pinus roxburghii* Essential Oil on Bioactivities of Selected Species of Cockroaches and Mosquitoes
- 33. Areej Nadeem** 19-B/Zool/063 Effect of Rosemary and Black-pepper Extracts on Ecological activities of Coleopteran beetles and their prey Aphids.

RESEARCH PUBLICATIONS

Impact Factor: 30.04

W Category	X category	Y category	ISSN # or Cong. Proceeding	Total
05	06	15	06	32

Sr. No	Author Reference	Title of Publication	Journal Name	Year/IF/Category
	Sadia Maalik, Ms Nehal Khalid, Dr. Sajida Mushtaq, Dr. Moazama Batool, Ayesha Hafeez, Nazia Ehsan, Naheed Bano:	"Diversity and relative abundance of Order Lepidoptera from agro-ecosystem of District Sialkot, Pakistan."	Zoo Botanica	Accepted
32	Ayesha Hafeez, Sadia Maalik, Sajida Mushtaq , Moazama Batool, Naheed Bano, Nazia Ehsan	Laboratory Rearing of Herbivore Larva of <i>Spodoptera Frugiperda</i> (Order: <i>Lepidoptera</i>) to Assess Yield Loss of Economically Important Crops	Journal of Zoology and Systematics 3(1),36-46 https://doi.org/10.56946/jzs.v3i1.575	Y category 10 February 2025 (ISSN: 3005-8309)
31	Moazama Batool, Howaina Asghar, Qurat-ul-Ain, Sheeza Bano, Sadia Maalik, Sajida Mushtaq , Mamoona Mahmood	Therapeutic Effect of Dietary Turmeric (<i>Curcuma longa</i>) on Growth Performance, Hematology Profile and Immunity Parameters of Common Carp (<i>Cyprinus carpio</i>)	Journal of Zoology and Systematics 3(1), 27–35. https://doi.org/10.56946/jzs.v3i1.554	Y category 30th January 2025 (ISSN: 3005-8309)
30	Sadia Maalik, Sajida Mushtaq , Naheed Bano, Moazama Batool, Ayesha Hafeez	Diversity and relative abundance of braconids (Hymenoptera) among selected crops of District Faisalabad, Pakistan	WORLD JOURNAL OF BIOLOGY AND BIOTECHNOLOGY Y Vol:09 Page: 13	2024 (Y Category) ISSN: 1810-2719

			https://doi.org/10.3386/5/wjb.009.01.1125	
29	Sadia Maalik, Sajida Mushtaq , Qurat ul Ain, Moazama Batool, Naheed Bano, Ayesha Hafeez	LIFE TABLE ANALYSIS AND EXTENT OF DAMAGE CAUSED BY SPODOPTERA EXIGUA (NOCTUIDAE: LEPIDOPTERA), A SERIOUS PEST	Journal of Zoo Biology 07 (01) 2024. 35-41 DOI: 10.33687/zoobiol.007.01.5103	ISSN 2706-9761(online) 2706-9753(Print) Published 02 August, 2024
28	Meerub Sarfraz Bhatti, Mamoon Mahmood, Moazama Batool, Qurat-UL-Ain, Sajida Mushtaq, Sadia Maalik,	Pomegranate: Systematic effect on fish and its applications in aquaculture (Review Article)	Bioscientific Review a review. BioSci Rev. 2024;6(4):67-85. https://doi.org/10.32350/bsr.64.i	Published 15 Nov, 2024
27	Asma Waheed Qureshi, Huma Nazir, Shafia Arshad, Sajida Mushtaq , Madiha Mahmud	ISOLATION & EVALUATION OF PROTEASE PRODUCING BACTERIA FROM SOIL SAMPLES OF DISTRICT MARDAN, PAKISTAN	<i>European Chemical Bulletin. 13(Regular Issue 06), 88-103</i> DOI: 10.53555/ecb/2024.13.06.13	Y category , (Hungary) July, 2024 ISSN: 2063-5346
26	WAJEEHA TANVEER, SAJIDA MUSHTAQ, NIMRA IJAZ, MOAZAMA BATOOL, SADIA MAALIK	AMAZON RAINFOREST WILDFIRES: CAUSES AND IMPACT ON MAMMALIAN AND AVIAN DIVERSITY	UNIVERSITY OF SINDH JOURNAL OF ANIMAL SCIENCES DOI: https://doi.org/10.57038/usjas.v8i01.6962 8(1); 59-69	Y category , Vol.8 June, 2024 ISSN (P): 2521-8328 ISSN (E): 2523-6067
25	Bakhtawar Soomro, Shakeel Ahmed Memon, Sajida Mushtaq and Sadia Maalik	Incidence of Cestode Parasites and Assessment of Histopathological Alterations in the Intestine of Domestic Pigeons (<i>Columba livia domestica</i>) in District Hyderabad, Sindh, Pakistan	MARKHOR THE JOURNAL OF ZOOLOGY Vol 5(1) Page; 45-50 DOI: https://doi.org/10.54393/mjz.v5i01.91	Y category , March, 2024 ISSN (P): 2790-4377,
24	Qurat Ul Ain, Sarmed Frog Arshad, Muhammad Omer Iqbal, Naheed Bano, Sabahat Irfan, Sadia Maalik, Sajida Mushtaq , M.	Efficacy and Mechanism of Jasminum Sambac gel for musculoskeletal injuries	American Journal of Translational Research Vol: 16(5) https://e-	30 May, 2024 IF. 3.402 ISSN No. 1943-8141

	Naeem, Imran ahmad Khan, Ahsan Anjum, M.Usman, M. Asif Raza		century.us/files/ajtr/16/5/ajtr0154736.pdf	
23	Muhammad Ramzan, Ghulam Murtaza, Sadia Maalik. Sajida Mushtaq , Waqar Majeed, Khaoula Elhadeif, Amor Hedfi, Manel Ben Ali and Naureen Rana	Age-stage two sex life table of an alarming quarantine pest, <i>Togoderma granarium</i> on stored products	Journal of Zoological Systematics and Evolutionary Research Vol:2024 Pages:10 https://doi.org/10.1155/2024/8896414	4 January 2024 IF: 2.42 W category ISSN : 0947-5745
22	Suneela, Sajida Mushtaq , Sadia Maalik, Asma Waheed Qureshi, Moazama Batool	Insect Faunal Diversity and Relative Abundance, Associated with <i>Trifolium alexandrinum</i> (Berseem) in District Sialkot, Pakistan	BIOLOGIA 69(2):40-47. http://dx.doi.org/10.17582/journal.Biologia/2023/69.2.40.47	2023 ISSN: 0006-3096
21	Moazama Batool, Rabia Khalid, Qurat Ul Ain, Sadia Maalik, Sajida Mushtaq , Mamoonah Mahmood	Evaluation of Serum Biochemical Parameters of <i>Cirrhinus Mirigala</i> under acute exposure of Arsenic	Journal of Zoology and Systematics Vol 1(2): 22-30 https://doi.org/10.56946/jzs.v1i2.220	2023 (Y Category) ISSN: 3005-8309.
20	Sajida Mushtaq , Sadia Maalik, Shahnaz Akhtar Rana, Waqar Majeed and Nazia Ehsan	Developmental analysis and predatory potential of <i>Eupeodes Corollae</i> (Fabricius,1794)(Diptera : Syrphidae) against aphids: A Practical approach of biological control.	Pakistan Journal of Agriculture Sciences 60(1):185-191 DOI: 10.21162/PAKJAS/23.3	2023 IF: 0.856 X category ISSN:0552-9034
19	Moazama Batool, Hijab Tariq, Huma Naz, Sajida Mushtaq, Sadia Maalik and Mamoonah Mahmood	Arsenic Induced Toxic Impacts on the Growth Performance and Haematological Aspects of Rahu (<i>Labeo rohita</i>)	Pakistan Research Journal of Biological Sciences Vol: 2 Page: 1-15 https://www.gcwus.edu.pk/prjbs/	2023 ISSN No. 3005-6845
18	Nazish Kanwal,*,Sajida Mushtaq, Sadia Maalik, Razia Ishaq.	DIVERSITY OF SYRPHID FLIES IN DISTRICT SIALKOT	Pakistan Research Journal of Biological Sciences Vol: 2 Page: 36-41 https://www.gcwus.edu.pk/prjbs/	2023 ISSN No. 3005-6845
17	Tasneem Kauser, Sajida Mushtaq , Sadia Maalik,	Diversity of Aphids and Assessment of their Natural	. <i>Proceeding of Pakistan Congress of Zoology</i>	2023 PK ISSN: 1013-346

	Moazama Batool, Naheed Bano and Wishia Jaffar	Enemies in District Sialkot, Punjab, Pakistan	Vol:41 Page:01-08 http://zsp.com.pk/PRO2023.pdf ol., 41, pp 00-00, 2023.	
16	Sadia Maalik, Sajida Mushtaq , Noreen Rana, Nazia Ehsan Naheed Bano and aisha hafeez	Estimation of diversity and relative abundance of lepidopteran fauna from cropland ecosystem from district Faisalabad, Pakistan	Journal of Agricultural Research 60(4) 303-313 10.58475/2022.60.4.1842	December,2022 (Y Category) ISSN: 0251-0480
15	Huma Aslam, Sajida Mushtaq, Sadia Maalik, Naheed Bano, Emad M. Eed, Amir Bibi, Ayesha Tahir, Iram Ijaz, Samina Tanwir and AmanyS. Khalifa	Exploring the effect of Jasmonic Acid for Aphid Control for improving the yield of Triticum aestivum varieties	PeerJ 2022 DOI 10.7717/peerj.14018 doi: 10.7717/peerj.14018 . eCollection.	27 October,2022 IF: 3.061 W category ISSN; 2831-6223
14	Asma Asghar; Hafiza Muhammad Imran; Naheed Bano; Sadia Maalik; Sajida Mushtaq; Asim Hussain; Sunita Varjani; Lotfi Aleya; Hafiza M. N. Iqbal; Muhammad Bilal	SARS-COV-2/COVID-19 scenario,epidemiology,adaptive mutations, and environmental factor.	Environmental Science and Pollution Research 29(46):69117-69136. doi: 10.1007/s11356-022-22333-0	4.23(W Category) October, 2022
13	Muhammad Yaseen, H A Khan, W. Majeed, Sajida Mushtaq, A. Hedfi, Sadia Maalik, M. Ben Ali, S. Mustafa, S. Kanwal and S. Tahreem	Investigation of roost composition of passerine birds in different environmental condition	Brazilian Journal of Biology. Volume 82. e263354. https://doi.org/10.1590/1519-6984.263354	X category (1.32) IF ISSN: 1519-6984 04 May, 2022
12	Arbab Yaseen, Muhammad Jala Arif, Waqar Majeed, Emad M.ed, Muhammad Naeem, Sajida Mushtaq , Safi Ur Rehman amar, Kiaenat Nazir	“Determination of the hormoligosis of organophosphate insecticides against Phenacoccus Solenopsis (Hemiptera: Pseudococcidae): Possible control of insecticide resistance development”	Brazilian Journal of Biology vol. 82, e263354 https://doi.org/10.1590/1519-6984.261971	X category (1.32) IF ISSN: 1519-6984 04 May, 2022
11	Sadia Maalik, Sajida	Approximation of agricultural	Journal of	2022

	Mushtaq , Moazama Batool, Nazia Ehsan, Naheed Bano and Ayesha Hafeez	loss caused by pernicious larvae of <i>Helicoverpa armigera</i> (Noctuidae; Lepidoptera) by analysis of feeding potential on selected plants	Entomological Research 46 (1) : 24-27 (2022) DOI : 10.5958/0974-4576.2022.00003.2	Y category ISSN: 2522-6746
10	Ayesha Asghar, Omema Qadeer, Sajida Mushtaq, Sadia Maalik, Waqar Majeed, Naheed Bano, Shahla Nargis	Assessment of insects diversity with the influence of industrial pollutants in agricultural zones of district Sialkot	<i>Biodiversitas Journal of Biological Diversity</i> Volume 23(4) Page: 2047-2053 https://doi.org/10.13057/biodiv/d230440	4, April 2022 Y category IF=1.04627 ISSN; 1412-033X
9	Muhammad Naeem, Saba Manzoor, Mashhud-ul-Hasan Abid, Muhammad Burhan Khan Tareen, Mirza Asad, SAJIDA MUSHTAQ, Nazia Ehsan, Dua Amna, Baojun Xu*, Abu Hazafa	Proteases as Emerging Biocatalysts to Meet the Current Challenges of Biomedical Therapies and Recent Developments: An Updated Review	<i>Journal of Fungi</i> 2022 8, 109. https://doi.org/10.3390/jof8020109 https://www.mdpi.com/journal/jof	jof-1508214 (W category) 5.72IF ISSN: 2309-608X 24 January, 2022
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Muhammad Umer Ijaz, Nazia Ehsan, Muhammad Imran	Warda Mustafa, Muhammad Tahir, Nazia Ehsan, Shahaba	Advancements and Research Trends	Invasive Species and Invertebrate Pests: Challenges in Conservation	978-627-7745-02-08 Page# 229-238 https://doi.org/10.61748/Zool.2024/29	FAHUM An Academic Publisher

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57. Maalik, S., S. A. Rana. N. Rana, **S. Mushtaq** and T. Ruby. 2011. Relative abundance and role of braconid larval parasitoids in containing lepidopteran populations in district Faisalabad. 31st pak. Congress of zoology (international) held on 19-21 March, at University of Azad Jammu and Kashmir, Muzafarabad.
58. Abbas, M. N., S. A. Rana, N. Rana, M. Shahid, T. Ruby, **S. Mushtaq** and S. Maalik. 2011. Chemical evaluation associated weed seeds frequently mixed with wheat grains at harvest. 31st pak. Congress of zoology (international) held on 19-21 March, at University of Azad Jammu and Kashmir, Muzafarabad.
59. **Mushtaq, S.** S. A. Rana and N. Rana. 2010. Trophic status of fodder crops in district Faisalabad. 30th Pakistan Congress of Zoology held at University of Agriculture, Fsd. on 2 -4 March, 2010.

WORKSHOP/TRAINING/SEMINARS ORGANIZED/ATTENDED

53 Certification

1. Certificate of Participation in **CALLIGRAPHY WORKSHOP** with Bin Qulander organized by Fine Art Department in Collaboration with ORIC GCWUS on 22nd April, 2025 at University Auditorium.
2. Training attended as **Program Team Member on Program Review for Effectiveness and Enhancement (PREE)** dated 17-03-2025. At Syndicate Room GCWUS.
3. **Mentor in Women Empowerment and Mentoring Program** by NAHE (National Academy of Higher Education), Higher Education Commission (Jan-March 2025)
4. **Webinar (ID-205-437-723. Resource person Fabio De Bello) attended entitled as Author Workshop: Publishing Open Access with Wiley-HEC dated on Wednesday 8th January 2025 (At 2:00-3:00pm)PKT**
1. Successful Completion Certificate of one **Month training** on National Outreach Program for Higher Education Faculty **by NAHE, HEC in** Collaboration with Government College Women University Sialkot from 11 November to 06 December 2024
2. Certificate of **Organizing Member** of "Awareness seminar on Fund raising Campaign on Hemophilia" held on 05 December 2024 under Blood Doner and Health Society, at Government College Women University Sialkot.
3. **Organized** a Poster Competition on "Life Below Water" (SDG-14) as a **organizing Committee** held on 3rd December 2024 at Department of Zoology at GCWUS.

4. **Organized** a Poster Competition on "**Life on Land**" (SDG-15) as an **organizing Committee Member** held on 3rd December 2024 at the Department of Zoology at GCWUS.
5. Certificate of **Organizing Member** of "**Awareness seminar on SHRIMP FARMING**" held on 03 December 2024 at Government College Women University Sialkot.
6. Certificate of **Organizer of Awareness campaign Anti-Dengue Walk and Awareness on "Collaborative and Comprehensive Approaches Towards Dengue Management"** held on 06 November 2024 at Government College Women University Sialkot.
7. Certificate of **Organizer of Two Days Hands on Training on "Handling of Laboratory Animals in Biomedical Research"** held on 15-16 October 2024 at Government College Women University Sialkot.
8. Certificate of **Organizing Member** of "**Awareness seminar on Breast Cancer**" held on 25 October 2024 at Government College Women University Sialkot.
9. One Day International Seminar attended entitled as '**Trans-Disciplinary Research in Sustainable Development**' held on 21 August 2024. at Government College Women university Sialkot in Collaboration with Azerbaijan Technical University, Baku.
10. Certificate of **Organizing Member** of "**Awareness seminar on Diabetes**" held on 05 December 2023 at Government College Women University Sialkot.
11. Certificate of **Organizing Member** of "**Awareness seminar on AIDS**" held on 05 December 2023 (in celebration of World AIDS Day) at Government College Women University Sialkot.
12. Certificate of **Organizing Member** of seminar entitled "**Toxicity in Blue Life**" held on 28th November 2023 (in celebration of World Fisheries Day) at Government College Women University Sialkot.
13. Certificate of **Organizing Member** of seminar entitled "**Seminar on Breast Cancer Awareness**" held on 1st November 2023 organized by Blood Doner and Health Society in Collaboration with Directorate of Students Affairs Government College Women University Sialkot,
14. Certificate of **Organizing Member** of Awareness seminar entitled "**Conjunctivitis Pink Eye Infection**" held on 18 October 2023 at Government College Women University Sialkot.
15. One Day Training attended On **ENDNOTE (Software)** organized by Department of Zoology, 3rd April, 2023 in Video Conference Room at Government College Women University Sialkot.
16. One Day Training attended as Assessment Teams (AT) member, organized by QEC on Wednesday, 29th March 2023 in Video Conference Room of the Government College Women

University, resource person was Director QEC, Dr. Dawar Hameed Mughal from the University of Veterinary & Animal Sciences (UVAS), Lahore.

17. Certificate as **Member of organizing committee in Seminar on Thalassemia** held on 14 December 2022 at Government College Women University Sialkot, organized by Zoological Society, Blood Doner Society and Director Student Affair
18. Certificate of organizer in celebration of **“World Fisheries Day”** entitled as **“RECENT TRENDS IN FISHERIES AND AQUACULTURE”** held on 30th November 2022 at Government College Women University Sialkot.
19. Certificate of short training of **"Atomic Absorption Spectrometer (AAS)"** at central research lab held on 23rd November 2022 at Government College Women University Sialkot.
20. Certificate as organizing member in Seminar entitled **"Emergence of antibiotic Resistance in World"** held on 24th October 2022 at Government College Women University Sialkot.
21. Certificate of organizing member in Seminar entitled **"Breast Cancer Awareness"** held on 18th October 2022 at University Auditorium, Government College Women University Sialkot organized by **Health and Blood Doner Society in collaboration with DSA**, Social work society and Pink Ribbon Youth Program by HEC, GCWUS.
22. One day Seminar entitled **“Awareness Seminar on Dengue Prevention and Control”** held on 2nd July, 2022 organized by Dengue Management Committee, GC Women University Sialkot.
23. One day Seminar entitled **“Current trends in Aquaculture Technologies”(Hybrid Mode)** held on 4th July, 2022 organized by Ghazi University , D. G. Khan
24. Two Week training **“Professional Development of Faculty 2022**, from **June 20, 2022 to July 1, 2022** organized by GC Women University Sialkot, funded by Higher Education commission.
25. Attended one hour online training session entitled **"Publishing your Research and innovations with IEEE: Choices and Procedures”** held on 20th April, 2022 **certificate #IEEE220420157**
26. Attended one hour online training session entitled **"Literature Review with IEEE Xplore Digital Library”** held on 6th April, 2022 **certificate #IEEE220406182**
27. Attended Two day webnair entitled **"Promoting Research Excellence in Academics across Pakistan"** on 1st & 2nd Feb, 2022 11:00 AM to 2:00Pm Islamabad, Karachi, Tashkent
28. One Day Seminar entitled **"Covid-19 and Vaccination Campaign in Itly at Glance"** on 22nd November, 2021 at GC Women University Sialkot.
29. Certificate to attend One Day Seminar entitled **"Food Safety & Hygiene Practices"** on 15th October 2021 at organized by Pakistan Scientific and Technological Information Center (PASTIC) Quid-e-Azam University campus Islamabad. **(webinar)**.

30. Attended 5th International **webinar** entitled **“Prospects of Agriculture Development for Pakistan in the context of CPEC”** held on October 13, 2021 (11:30amPST) organized Faculty of Veterinary and Animal Sciences MNS-University of Agriculture Multan.
31. Certificate to attend one day seminar entitled **“Global Importance of Parasite Disease Epidemiology and Drug Resistance in Animals and Humans”** Held on 2nd April, 2021 organized by Zoological Society, GC Women University Sialkot. (**webinar**)
32. One Day Online training entitled **“Elsevier-HEC Workshop on Journal indexing in Scopus”** on Thursday 21 January, 2021, at Higher Education Commission of Pakistan.
33. One Day Seminar entitled **“Awareness regarding COVID-19”** held on February, 2020 organized by Department of Zoology GC Women University Sialkot.
34. Certificate of PRESENTATION in 1st Multidisciplinary National Conference (MEET-2020) held on March 4, 2020. At UNIVERSITY OF JHANG.
35. **Organized** One Day seminar entitled **“Potential of Fisheries in Pakistan”** held on November 29, 2019 by department of Zoology, at GC Women University Sialkot.
36. **Speaker** in One Day seminar entitled **“Dengue Awareness”** held on October 09, 2019 organized by Dengue Society in collaboration with Zoological society at GC Women University Sialkot.
37. One Day Training entitled **“Academic Programs and Teaching: Innovate to Lead”** held on March 02, 2019 organized by Quality Enhancement cell at GC Women University Sialkot.
38. Organized one day training entitled **“BIOSAFETY PRACTICES IN LABORATORY”** held on April 12, 2018 in collaboration with National Academy of Young Scientists (NAYS) at GC Women University Sialkot.
39. Participated in one day training entitled **“Entrepreneurial Mindsets”** held on March 27, 2018 at GC Women University Sialkot.
40. One day training/workshop entitled **“Bioassay for exploration of bioactivities”** held on March, 2018 at University of Agriculture Faisalabad.
41. One day training entitled **“Managing E-Resources”** held on April 24, 2017 at GC Women University Sialkot.
42. Walk by Department of Zoology entitled as **World Fisheries Day** held on 23 Nov, 2017 at GC Women University Sialkot.
43. One day Seminar organized by Department of Zoology entitled as **“RECENT RESEARCH TRENDS IN BIOLOGICAL SCIENCES ”** held on 29 March, 2017 at GC Women University Sialkot
44. A one day training workshop on **“USE OF TURNITIN AND DIGITAL LIBRARY”** on July, 2017. At GC Women University Sialkot.

45. Seminar organized by Department of Zoology entitled as “**Measures regarding prevention and control of *Naegleria fowleri* (Brain eating amoeba) in Punjab.**” held on 16 March, 2016 at GC Women University Sialkot.
46. A training workshop entitled “**Research Proposal Writing: Pre and post challenges**” on December 18, 2015. At GC Women University Sialkot.
47. Hands-on Training Workshop on “**PUBLISH YOUR RESEARCH IN HIGH IMPACT FACTOR JOURNALS**” on November 28, 2015. At Institute of Geology, Punjab University, Lahore.
48. Certificate of active Participation in one day National seminar titled “**FUNCTIONAL FOODS; RECENT APPROACHES TOWARDS HUMAN HEALTH**” on December 04, 2014. At department of Home Economics and Food Sciences, GC Women University, Faisalabad.
49. Participation in one day Symposium titled “**CHEMICAL APPROACHES TO COPE THE ENVIRONMENTAL HAZARDS**” on 20th Nov, 2014. At Department of Chemistry, GC Women University, Faisalabad.
50. Certificate of active Participation in seminar titled “**Social Mobilization and communication for Dengue Epidemic**” on November 10, 2014. At department of Zoology, GC Women University, Faisalabad.
51. Award Certificate for participation in National Nanotechnology training workshop on “**ADVANCED CHARACTERIZATION TECHNIQUES AND PRACTICAL APPLICATIONS OF NANOMATERIALS**” dated October 27-29, 2014 at NIBGE.
52. Five day International Training workshop “**SPECIES DISTRIBUTION MODELING TECHNIQUES**” on April 10-14, 2012 at University of Agriculture, Faisalabad.
53. Certificate of 8th **NATIONAL TRAINING COURSE ON MOLECULAR TECHNIQUES IN BIOTECHNOLOGY** on April 12-16, 2010. At National Institute for Biotechnology and Genetic Engineering
54. Certificate of **Active participation as member of organizing committee** of 30th (International) Congress Pakistan congress of Zoology on March 2-4, 2010. At University of Agriculture, Faisalabad.

HONORARY CONTRIBUTION IN RESEARCH OR ACADEMIA

- **Article Reviewer of Journal of Experimental Agriculture International**
 Manuscript Title: **Pest complex of Brinjal crop (*Solanum melangena* L.): Pest management with botanicals comparing Insecticide (Imidacloprid- 17.8 SL)**
 Manuscript Number: **Ms_JEAI_128137**
- Journal of Advances in Biology & Biotechnology.

- Manuscript Title: **Impact of sequential pest management strategies on *Coccinella septempunctata* Linnaeus, 1758 (Coccinellidae: Coleoptera) in okra cultivation**

Manuscript Number: **Ms_JABB_127903**