

Curriculum Vitae

Dr. RABIA YAQOOB (PhD Zoology) HEC Approved Supervisor

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EDUCATION:

Ph.D Zoology	University of Sargodha	CGPA-3.31/4	2016
M.Phil Zoology	University of Sargodha	CGPA- 3.31/4	2012
M. Sc Zoology	University of Sargodha	CGPA- 3.26/4	2010
B. Sc (Zoology, Botany, Chemistry)	University of Sargodha	Division- 1 st	2008
Intermediate (Pre-medical)	B.I.S.E Sargodha Division-	Division- 2 nd	2006
Matriculation (Science)	B.I.S.E Sargodha Division-	Division- 1 st	2004

Title of PhD thesis: Anti-Inflammatory role of peptides extracted from venom of Buthid scorpions.

Title of MPhil thesis: Biochemical estimation of insecticide detoxifying enzymes among different populations of "*Bactocera dorsalis*" h. (diptera: tephritidae).

SKILLS and TECHNIQUES:

General MS-Office and Internet user, Excellent communication skills (reading writing and speaking) both in English and Urdu, SDS Gel Electrophoresis, Extraction of venom of spiders and scorpions, Protein estimation, Estimation of insecticide detoxifying enzymes, Bioassay (Microbial, Insect), Green synthesis of nanoparticles, Insect Rearing.

AWARDS and ACHIVEMENTS

- Awarded with Grant of Rupees 0.48 million from HEC for research project under SRGP
- HEC M. Phil leading to PhD Indigenous Scholarship
- 1st position in Zoology in B. Sc.

ADMINISTRATIVE EXPERIENCE

- Campus Coordinator, Student counselling center
- Academic Campus Coordinator (Zoology)
- Superintendent Girls Hostel
- Coordinator evening programs

- Member Departmental Board of Studies (Zoology)

RESEARCH and TEACHING EXPERIENCE

- Currently working as Associate Professor (TTS) at University of Education, Lahore, since, 17 April 2024.
- Six years and 4 Months Teaching and research experience as Assistant professor (TTS) at University of Education, Lahore (From 17 December 2017 to 16-04-2024).
- One Year-Teaching and Research experience as Assistant Professor at University of Education, Lower Mall Campus, Lahore under IPFP program of HEC.
- One Year-Teaching experience as visiting teacher at Department of Zoology, University of Sargodha.

RESEARCH SUPERVISED

(As Supervisor)

1. **Zaib un Nisa Hashmi** (2017-20), MS Thesis, Title: Evaluation of the insecticidal potential of some toxic plants against pests and predators of wheat crop.
2. **Wajahat Ali** (2021-23), MS Thesis, Title: Effect of ZnO Nano Particles Prepared from *Ocimum basilicum* (Basil) Leave Extract on Gut Inhabiting Bacteria of Thaila (*Catla catla*)
3. **Bilal Raza** (2021-23), MS Thesis, Title: Effect of Blue LED Light on Growth and Development of Chicken (*Gallus domesticus*).
4. **Muhammad Shoaib** (2021-23), MS Thesis, Title: Seasonal Variations in Diurnal Activities of Blackbuck (*Antelope cervicapra*).
5. **Irsalan Pervaiz** (2021-23), MS Thesis, Effect of ZnO Nano Particles Synthesized from *Ocimum basilicum* (Basil) Leave Extract on Sugarcane Pests.
6. **Muhammad Usama Jahangir** (2021-23), MS Thesis, Title: Effects of ZnO Nano Particles Synthesized from *Ocimum basilicum* (Basil) Leave Extract on Horticulture Pests.
7. **Muhammad Adnan** (2022-24). MS Thesis, Title: Evaluating the Silver Nanoparticles synthesized by Indian Chrysanthemum (*Chrysanthemum indicum*) as Potential Insecticidal agent.
8. **Zunaira Hussain** (2022-24). MS Thesis, Title: Study of Insecticidal Activity of Silver Nanoparticles Synthesized by Aak (*Calotropis procera*).
9. **Faiz Afzal** (2022-24). MS Thesis, Title: Evaluating the Synergistic Effect of Synthetic Insecticides and Silver Nanoparticles on Horticulture Insect Pests.
10. **Alia Sagheer** (2023-25) MS Thesis in process. Title: Effect of Zinc Oxide Nanoparticles on Stress Enzymes in Fruit Fly (*Drosophilla melanogaster*)
11. **Syed Haroon Haider** (2023-25) MS Thesis in process, Title: Effect of Silver Nanoparticles on Stress Enzymes in Fruit Fly (*Drosophilla melanogaster*)
12. **Mudassar Akbar** (2018-22) BS Thesis, Title: Efficacy of silver nanoparticles synthesized by China berry (*Melia azedarach*) leaf extract against gram negative bacteria
13. **Sayed Shabab Hussain** (2020-22), MSc Thesis, Title: China berry (*Melia azedarach*) mediated synthesis of silver nanoparticles and their characterization.
14. **Faiza Asrar** (2020-22), MSc Thesis, Title: Antibacterial activity of silver nanoparticles produced by China berry (*Melia azedarach*) leaf extract, against gram positive bacteria

(As CoSupervisor)

1. **Muhammad Saqib** (2021-23) MS/M.Phil Thesis, Title: Analysis of hematological indices in diabetic mice treated with zinc oxide (ZnO) nanoparticles synthesized from klonji (*Nigella Sativa*) and chicory (*cichorium intybus*) seed extract
2. **Muhammad Shafiq** (2021-23) MS/M.Phil Thesis, Title: Effect of zinc oxide nanoparticles synthesized from seed extract of chicory (*cichorium intybus*) and kalonji (*Nigella Sativa*) on srological parameters in diabetic mice
3. **Muhammad Shehzad** (2020-22), MS Thesis, Title: Antimicrobial Efficiency of Zinc Oxide Nanoparticles Synthesized by Using Leaves Extract of *Eucalyptus globulus* (Blue Gum)
4. **Muhammad Zain Hassan** (2020-22), MS Thesis, Title: Evaluation of antimicrobial activity of zinc oxide nanoparticles synthesized by using leaf extract of neem (*Azadirachta indica*)
5. **Sidra Abdullah** (2019-21). MS Thesis, Title: Exploring the antibacterial activity of silver nanoparticles by using amaltas (*Cassia fistula*).
6. **Zahid Hussain** (2019-21). MS Thesis, Title: Evaluation of antibacterial potential of silver nanoparticles synthesised by using leaf extracts of red gum (*Eucalyptus camaldulensis*).
7. **Azhar Iqbal** (2018-20), MS thesis, Title: Green synthesis, characterization and evaluation of antibacterial potential of Zinc oxide nanoparticles.
8. **Faryad Ali** (2017-19), MS Thesis, Title: Antibacterial Potential of Web Recovered from Genus Neoscona (Araneae: Araneidae)
9. **Muhammad Amjad** (2016-2018). MS Thesis submitted. Title: Antibacterial effect of venom and hemolymph of spiders.

RESEARCH PAPERS PUBLISHED

List of Publications in Journals Having IF (Impact Factor)/W Category

Sr #	Name of Author	Complete Name of Journal and Address with ISSN # (Print)	Title of Publication	Vol # & Pg #	Date Published	Impact Factor	Link
1	Dr. Sudhair Abbas Bangash Madeeha Arshad Rabia Yaqoob , et al.	Kurdish Studies ISSN: 2051-4883 (Print) ISSN 2051-4891 (Online)	Prevalence And Molecular Profiling Of Antibiotics Resistance Genes In Bacterial Isolates	Volume: 12, No: 5, pp 1152-1157	26 September 2024	W	https://www.hc.gov.pk/english/services/faculty/journals/Documents/HJRS%202023-24.pdf
2	Hira Khalid, Rabia Yaqoob et al	Frontiers in Environmental Science, section Toxicology, Pollution and the Environment	Sewage sludge induced effect on growth, enzyme inhibition and the genotoxicity can be ameliorated using wheat straw and biochar in <i>Pheretima posthuma</i> earthworms.	10:88-8394.	14 June 2022	4.6/W	https://hjrs.hec.gov.pk/index.php?r=site%2Fresult&id=880401#journal_result

3	H. M. Tahir , , R. Yaqoob et al	Journal of Animal and Plant Sciences 1018-7081	Anti-bacterial Potential of silk recovered from <i>Erovia eccelsa</i> (Simon, 1889) Spider	Vol.2 9 No.2 pp.62 5-628	April 2019	0. 407	https://www.hc.gov.pk/english/services/faculty/journals/Pages/Research/International.aspx Sr# 6211
4	R. Yaqoob et al	Journal of Animal and Plant Sciences 1018-7081	Anti-inflammatory role of peptides isolated from venom of <i>Androconus finitimus</i> (Pocock, 1897)	29(1) :, Page: 334- 342	Febru ary 2019	0.40 7	https://www.hc.gov.pk/english/services/faculty/journals/Pages/Research/International.aspx Sr# 6211
5	Hafiz Muha mmad Tahir, Rabia Yaqoob et al	Journal of Insect Science 1536-2442	Effect of Pesticides on Biological Control Potential of <i>Neoscona theisi</i> (Araneae: Araneidae)	19(2) : 17; 1–6	March 2019	1.32 5	https://www.hc.gov.pk/english/services/faculty/journals/Pages/Research/International.aspx Sr# 4693
6	Hafiz Muhammad Tahir, Rabia Yaqoob, et al	International Journal of Agriculture and Biology 1560-8530	Evaluation of venom peptides of two jumping spider species (Araneae: Salticidae) for use as insecticide	20: 2423 – 2427	June 2018	0.32 1	https://www.hc.gov.pk/english/services/faculty/journals/Pages/Research/International.aspx Sr # 4464
7	Hafiz M. Tahir, Rabia Yaqoob, et al	Acta Zoologica Bulgarica 0324-0770	Silk of spider <i>Pholcus phalangioides</i> (Araneae: Pholcidae) (Fuesslin, 1775) spider as antibacterial agent.	70 (4), 593- 598	Dece mber 2018	0.28	https://www.hc.gov.pk/english/services/faculty/journals/Pages/Research/International.aspx Sr # 10115
8	H. M. Tahir, R. Yaqoob et al	Journal of Animal and Plant Sciences 1018-7081	Evaluation of wound healing potential of spider silk using mice model.	27(6) : 2017, Page: 1896- 1902	Dece mber 2017	0.40 7	https://www.hc.gov.pk/english/services/faculty/journals/Pages/Research/International.aspx Sr# 6811
9	H.M. Tahir.....R . Yaqoob	African Entomology 1021-3589	Toxicity and resistance of American cockroach, <i>Periplaneta americana</i> L. (Blattodea: Blattidae) against malathion	25(2) , 361- 366	Septe mber 2017	0.5	https://www.hc.gov.pk/english/services/faculty/journals/Pages/Research/International.aspx Sr # 9169

10	Hafiz Muhammad Tahir....., Rabia Yaqoob, et al	Archives of Insect Biochemistry and Physiology 0739-4462	Insecticide Resistance In the Ground Spider, <i>Pardosa sumatrana</i> (THORELL, 1890; ARANEAE: LYCOSIDAE).	Volume 93, Issue 1 Pages 55-64	September 2016	1.530	https://www.hec.gov.pk/english/services/faculty/journals/Pages/Research/International.aspx Sr # 5019
11	Zafar Iqbal Khan, , Rabia Yaqoob, et al	Environmental Earth Sciences 1866-6280	Assessment of toxicological health risk of trace metals in vegetables mostly consumed in Punjab, Pakistan	75, 433 (2016).	24 February 2016	1.569	https://www.hec.gov.pk/english/services/faculty/journals/Pages/Research/International.aspx Sr# 1445
12	Rabia Yaqoob et al	Pakistan Journal of Zoology 0030-9923	Optimization of the Conditions for Maximum Recovery of Venom from Scorpions by Electrical Stimulation	48(1), pp. 265-269	January 2016	0.49	https://www.hec.gov.pk/english/services/faculty/journals/Pages/Research/International.aspx Sr # 6882
13	Zafar Iqbal Khan, Rabia Yaqoob, et al	Human and Ecological Risk Assessment: An International Journal 1080-7039	Risk assessment of heavy metal and metalloid toxicity through a contaminated vegetable (<i>Cucurbita maxima</i>) from wastewater irrigated area: A case study for a site-specific risk assessment in Jhang, Pakistan.	22:1, 86-98,	October 2015	1.560	https://www.hec.gov.pk/english/services/faculty/journals/Pages/Research/International.aspx Sr # 5082
14	Hafiz Muhammad Tahir, Rabia Yaqoob, et al	Pakistan Journal of Zoology 0030-9923	Seasonal Dynamics of Spiders and insect Pests in Citrus Orchards of District Sargodha, Pakistan	Vol. 47(6), pp. 1673-1681	December 2015	0.47	https://www.hec.gov.pk/english/services/faculty/journals/Pages/Research/International.aspx Sr # 6938
15	Rabia Mishal, Rabia Yaqoob et al	Pakistan Journal of Zoology 0030-9923	Haematological Effects of <i>Odontobuthus odonturus</i> (Arachnida: Buthidae) Venom in Albino Mice.	Vol. 47(5), pp. 1213-1218,	October 2015	0.47	https://www.hec.gov.pk/english/services/faculty/journals/Pages/Research/International.aspx Sr # 6938
16	Rabia Yaqoob et al	Pakistan Journal of Zoology	Susceptibility of Adult <i>Bactocera dorsalis</i> (Diptera: Tephritidae)	Vol. 47(1), pp.	February 2015	0.47	https://www.hec.gov.pk/english/services/faculty/journals/Pages/Research/International.aspx

		0030-9923	to Commonly Used Chemical Insecticides.	280-282,			ty/journals/Pages/Research/International.aspx Sr # 6938
17	Hafiz Muhammad Tahir, Rabia Yaqoob et al	Pakistan Journal of Zoology 0030-9923	Potential Use of Venom of <i>Odontobuthus odonturus</i> (Arachnida: Buthidae) as Bio-pesticide Against <i>Rhopalosiphum erysimi</i> .	47(1), pp. 37-40,	February 2015	0.47	https://www.hc.gov.pk/english/services/faculty/journals/Pages/Research/International.aspx Sr # 6938
18	Hafiz Muhammad Tahir,..... Rabia Yaqoob , et al	Pakistan Journal of Zoology 0030-9923	Susceptibility of <i>Culex quinquefasciatus</i> (Diptera: Culicidae) to Deltamethrin in District Sargodha.	46(1), pp. 275-278	February 2014	0.4	https://www.hc.gov.pk/english/services/faculty/journals/Pages/Research/International.aspx Sr # 10323
19	Sajida Naseem, Rabia Yaqoob	Pakistan Journal of Zoology 0030-9923	Effect of Chlorpyrifos on the Activities of Non-specific Esterases in <i>Musca domestica</i> L.,	45(6), pp. 1771-1772	December 2013	0.4	https://www.hc.gov.pk/english/services/faculty/journals/Pages/Research/International.aspx Sr# 9970
20	Sajida Naseem, Rabia Yaqoob et al	Jokull Journal 0449-0576	Malathion resistance in <i>Musca domestica</i> (Diptera: Muscidae) in district Sargodha, <u>Pakistan</u>	Vol 63, No. 7; 447-465	July 2013	1	https://www.hc.gov.pk/english/services/faculty/journals/Pages/Research/International.aspx Sr #6466

List of Publications in Journals without IF (Impact Factor)/W Category

1. Prevalence of Diabetes Mellitus in the Human Population of Bahawalpur, Punjab, Pakistan. Muhammad Khalid, Saif ur Rehman, Ahmad Ali, Sheikh Muhammad Azam, **Rabia Yaqoob**, Syed Muhammad Faraz Shah, Azam Ali, Mahjabeen Zohra, Shaikh Muhammad Abdullah, Muhammad Imran, Muhammad Imran Tousif. (2021). FRONTIERS IN CHEMICAL SCIENCES, 2(2), 207-214.
2. Prevalence of Hepatitis B & C in Bahawalpur Region, Punjab, Pakistan (2021). Muhammad Khalid, Saif ur Rehman, Ahmad Ali, Sheikh Muhammad Azam, **Rabia Yaqoob**, Muhammad Faizan, Shoaib Hassan, Abir Ishtiaque, Azam Ali, Muhammad Imran Tousif, Muhammad Mateen Tahir. FRONTIERS IN CHEMICAL SCIENCES, 2(2), 175-182. <https://doi.org/10.52700/fcs.v2i2.23>
3. Effects of Se nanoparticles supplementation on growth performance, hematological parameters and nutrient digestibility of Labeo rohita fingerling fed sunflower meal based diet. N. Ahmad, S. M. Hussainb, S. M. Azam, **R. Yaqoob** et al., Brazilian Journal of Biology, 2024, vol. 84, e253555 | <https://doi.org/10.1590/1519-6984.253555>
4. Role of Non-specific esterases in the incidence of breast cancer in different age groups. Bano, Hafiz Muhammad Tahir, Aroosa Rasheed, Muhammad Arshad, Shafaat

- YarKhan & **Rabia Yaqoob**, 2017. 63 (2), 131-134. Y. category. December 2017.
5. Partial characterization of venom from common buthid scorpions (Scorpion: Buthidae) of District Sargodha, Pakistan. **Rabia Yaqoob**, Hafiz Muhammad Tahir, Aroosa Rasheed, Khizar Simiullah, Khanum Zahra, Muhammad Mohsin Ahsan & Sajida Naseem. 2017. BIOLOGIA (PAKISTAN) 63 (1), 13-19. **Z Category**.
 6. DNA barcoding of araneid (Arachnida: Araneae) spiders from citrus orchards of district Sargodha. Sajida Naseem, Hafiz Muhammad Tahir, Muhammad Ashfaq, Naima Atif Jamil and **Rabia Yaqoob**. 2016. International Journal of Agriculture and applied science. 8(1): 82-88. **Z Category**.
 7. Toxic effect of malathion on insect pollinators visiting marigold flowers. Zafar Iqbal Khan, Hafiz Muhammad Tahir, Salma Begum, Kafeel Ahmed, Saira Batool, **Rabia Yaqoob** & Ijaz Rasool Noorka.. *Biologia (Pakistan)* 2016, 62 (1). 1-7. **Z Category**.
 8. Comparing the efficiency of Taq DNA polymerase and PuRe Taq Ready-To-Go PCR beads in amplifying 12S and 16S ribosomal genes. Hafiz Muhammad Tahir, **Rabia Yaqoob**. *Punjab University Journal of Zoology*. Vol. 31 (1), pp. 013-015, 2016
 9. Antifungal potential of silk recovered from *Neoscona theisi* (Araneae: Araneidae) (Short communication). Hafiz Muhammad Tahir, Arooj Zaheer, **Rabia Yaqoob**. *Punjab University Journal of Zoology*, Vol. 30(2), pp. 081-083, 2015
 10. Effects of Insecticides on Predatory performance of Spiders. Hafiz Muhammad Tahir, **Rabia Yaqoob**, Sajida Naseem. *Biologia (Pakistan)*. June, 2015, 61 (1), 127-131. **Z Category**.
 11. Toxicity and Avoidance Behaviour of *Coccinella septempunctata* (Coleoptera: Coccinellidae) Against Deltamethrin. Hafiz Muhammad Tahir, **Rabia Yaqoob**, Usman Akhtar, Kafeel Ahmed, Maria Sharif, *Biologia (Pakistan)* 60 (2), 305-307. 2014. **Z Category**.
 12. Susceptibility of *Culex quinquefasciatus* (Diptera: Culicidae) to malathion in Sargodha district, Pakistan, Hafiz Muhammad Tahir, Kishwar Hussain, Azhar Abbas Khan, Sajida Naseem, Hamza Tanveer Malik, Abida Butt, **Rabia Yaqoob**, *Open Journal of Animal Sciences* 3 (04), 1 2013 2013/10/15. **(International)**
 13. Susceptibility of *Musca domestica* (Diptera: Muscidae) to λ -Cyhalothrin and Chlorpyrifos in Sargodha District. Sajida Naseem, Hafiz Muhammad Tahir, **Rabia Yaqoob** & Raheela Mustafa. (2011). *Biologia (Pakistan)*. 57(1&2): 105-110. **Z Category**.

REVIEW PAPERS PUBLISHED

1. Applications of spider venom in medical science and agriculture. Hafiz muhammad tahir, Arooj Zaheer, **Rabia Yaqoob**, Abdul Khaliq & Khanum Zahra. 2016 *Biologia (Pakistan)* 2016, 62 (1). **Z Category**.

ABSTRACTS PUBLISHED

1. Antibacterial Effect of venom and hemolymph of spider. Abstract no PO50. In Abstract book of "3rd international conference on innovative biological and public health research (IBPHR 2019). Organized by Department of Zoology, GCU
2. Sajida Naseem, Hafiz Muhammad Tahir and **Rabia Yaqoob**. Investigation of possible mechanism of insecticide resistance in housefly (*Musca domestica* L.). PC-29, Abstracts of 32nd Pakistan congress of zoology
3. Hafiz Muhammad Tahir, **Rabia Yaqoob** and Sajida Naseem. Potential use of *Calotropis procera* (gentianales: asclepiadaceae) to control *Musca domestica* (L.). PC-23, Abstracts of 32nd Pakistan congress of zoology

4. **Rabia Yaqoob**, Hafiz Muhammad Tahir, Shafaat Tar Khan and Sajida Naseem. Insecticide resistance in *Bactocera zonata* (Diptera: tephritidae) in district Sargodha, Pakistan. PC-63, Abstracts of 33rd Pakistan congress of zoology.
5. Sajida Naseem, Hafiz Muhammad Tahir, **Rabia Yaqoob** and Raheela Mustafa. Susceptibility of *Musca domestica* (Diptera: Muscidae) to λ -cyhalothrin and chlorpyrifos in Sargodha district. PC-62, Abstracts of 33rd Pakistan congress of zoology.
6. Naseem, S., Tahir, H. M., **Yaqoob, R** and Mustafa, R. Estimation of insecticide detoxifying enzymes in malathion resistant houseflies from Sargodha district. CBGP-147, Abstracts of 34th Pakistan congress of zoology.
7. Tahir, H. M., Nazarat, I., Naseem, S. and **Yaqoob. R.** Seasonal dynamics of Insect Pests and their Predators in Citrus Orchards of District Sargodha, Pakistan, Book of Abstracts. IPM innovation in Europe Poznan, Poland.

BOOK PUBLISHED

- Insecticide resistance in *Bactocera dorsalis* H. (Diptera:Tephritidae): Insecticide Resistance in Fruit Flies. Hafiz Muhammad Tahir and Rabia Yaqoob. Publisher: LAPLAMBERT Academic Publishing (April 23, 2015). ISBN-13: 978-3659698897

CONFERENCE PRESENTATIONS

- Oral presentation on “Insecticide resistance in *Bactocera zonata* (Diptera: tephritidae) in district Sargodha, Pakistan.” in 33rd Pakistan Congress of Zoology (International) held on 2-4 April, 2013 at Pakistan Museum of Natural History, Islamabad PMAS Arid Agriculture University, Rawalpindi.
- Antibacterial Effect of venom and hemolymph of spider. Abstract no PO50. In Abstract book of “3rd international conference on innovative biological and public health research (IBPHR 2019). Organized by Department of Zoology, GCU.
- Anti-inflammatory role of peptides extracted from venom of buthid scorpions. Abstract ID: O-193. In 5th International conference on Applied Zoology (ICAZ-2020-22). Organized by The Applied Zoological Society of Pakistan.