

# CURRICULUM VITAE

## CHAND RAZA

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### Research Focus

My research focuses on understanding neural regeneration and degeneration to develop effective therapeutics using preclinical animal models and extracts from medicinal plants. During my PhD, I investigated traditional Chinese medicine and screened various compounds for their potential to promote neural regeneration. After completing my PhD, my research group began exploring the therapeutic potential of local medicinal plants to develop cost-effective treatments for neural impairments. Currently, we are evaluating these therapeutic effects at behavioral, histological, and mechanistic levels.

Degree	University	Year	cGPA
PhD (Biomedical Sciences)	City University of Hong Kong	2018	
M.Phil (Zoology)	GC University Lahore, Pakistan	2010	3.52
M.Sc (Zoology)	GC University Lahore, Pakistan	2006	3.24

### Experience

Current Position: Assistant Professor (Feb, 2018 – Continue)  
Previous Position: Lecturer (Jul, 2007 – Feb, 2018)  
Department: Department of Zoology  
Organization: GC University Lahore, Pakistan.

### Research Projects & Theses

#### **Therapeutic Potential of *Mentha piperita* in a Mouse Model of Parkinson's Disease (2023)**

Funded by ORIC–GC University Lahore (PKR 0.29 million)

Status: *Completed*

#### **Evaluation of the Regenerative Potential of *Azadirachta indica* in Mice Peripheral Nerve Regeneration (2019)**

Funded by ORIC–GC University Lahore (PKR 0.34 million)

Status: *Completed*

#### **Therapeutic Potential of Traditional Chinese Medicine in Peripheral Nerve Regeneration – PhD Thesis (2018)**

Department of Biomedical Sciences, City University of Hong Kong

Supervisor: Dr. Chi Him Eddie Ma, Associate Professor, Department of Biomedical Sciences

#### **Isolation and Estimation of Biodegradation Potential of Crude Oil–Contaminated Soil Microflora from OGDCL, Missa Kaswal, Pakistan – M.Phil Thesis (2010)**

Department of Zoology, GC University Lahore

Supervisor: Dr. Nusrat Jahan, Distinguished Professor, Department of Zoology

#### **Antimicrobial Activity of Organic Extracts of Turmeric (*Curcuma longa*) and Licorice (*Glycyrrhiza glabra*) Against Bacteria Isolated from Tannery Waste – M.Sc Dissertation (2006)**

GC University Lahore

Supervisor: Prof. Dr. Ashraf Mirza (Late), Retired Principal, M.A.O. College, Lahore

## Publications

1. Khan A, **Raza C\***, Zahid MT, Rehman HFu, Sharif S, Khan KU (2025) Scorpion (*Hottentotta tamulus*) venom pre-exposure delays functional recovery in mice following peripheral nerve injury. *PLoS One* 20(8): e0330600. <https://doi.org/10.1371/journal.pone.0330600>. (IF 2.6). W-Category. (Web of Science)
2. Anjum R, **Raza C\***, Faheem, M. Neuroprotective effects of *Morus alba* ethanolic extract against rotenone-induced neurodegeneration and motor impairments in mouse model. *Journal of Asian Natural Products Research*. (2025). Doi.org/10.1080/10286020.2025.2501024. (IF 1.5).
3. Anjum R, **Raza C\***, Faheem, M. Exploring the therapeutic potential of *Murraya koenigii*: a comprehensive study on the neuroprotective effects against rotenone-induced Parkinson's disease in mice. *Advances in Traditional Medicine*. (2025). Doi.org/10.1007/s13596-025-00837-7. (IF 1.8).
4. Anjum R, **Raza C**. Carvone: A bioactive monoterpene with diverse pharmacological applications. *Current Pharmacology Reports* (2025). DOI 10.1007/s40495-025-00402-5
5. **Raza C\***, Mohsin S, Faheem M, Hanif U, Alkhathlan HZ, Shaik MR, Riaz HA, Anjum R, Jurrat H, Khan M. In vivo study of *Moringa oleifera* seed extracts as potential sources of neuroprotection against rotenone-induced Neurotoxicity. *Plants* (2024). 13(11). DOI:10.3390/plants13111479. (IF 4.5) W-category. (Web of Science)
6. Anjum R, **Raza C\***, Faheem M, Ullah A, Chaudhry M. Neuroprotective potential of *Mentha piperita* extract prevents motor dysfunctions in mouse model of Parkinson's disease through anti-oxidant capacities. *PLoS ONE*. 19(4):e0302102. (2024) DOI: 10/1371/journal.pone.0302102. (IF 3.7). W-category. (Web of Science)
7. Naz R, Alfattah MA, Khormi MA, Abada E, Hanif U, **Raza C**, Liaqat I, Remesh M, El-Shabasy A. Neuropharmacological Potential of a Northern Maidenhair Fern (*Adiantum pedatum*) L. *International Journal of Pharmacology* (2024). 20(2), DOI:10.3923/ijp.2024.241.256. (IF 0.6) Y-category. Q4 journal
8. Hussain G, Akram R, Anwar H, Sajid F, Iman T, Han HS, **Raza C**, de Aguillar JLG. Adult neurogenesis: a real hope or a delusion? *Neural Regeneration Research* (2023). 19(1). DOI: 10.4103/1673-5374.375317. (IF 6.058) X-category. Q2 journal (Web of Science)
9. Liaqat I, Muhammad N, Ara C, Hanif U, Andleeb S, Arshad M, Aftab N, **Raza C**, Mubin M. Bioremediation of heavy metals polluted environment and decolorization of black liquor using microbial biofilms. *Molecular Biology Reports*. (2023). DOI: 10.1007/s11033-023-08334-3. (IF 2.68) W-category
10. Au NPB, **Raza C**, Kumar G, Asthana P, Tam WY, Tang KM, Ko CC, MA CHE. A small molecule M1 promotes optic nerve regeneration to restore target-specific neural activity and visual function” *Proceedings of the National Academy of Sciences*. 119 (44) e2121273119 (2022). (IF 12.78) W-category. Q1 journal (Web of Science)
11. Ashraaf S, Tahir HM, **Raza C**, Muzamil A, Chaudhary FA, Summer M, Ali A. Effect of Sericin and Curcumin mixture on hematological alternations associated with carrageenan induced paw edema in mice. *Punjab University Journal of Zoology*. Vol. 37, Iss.2, p121-128. (2022). X-category.
12. Ashraaf S, Tahir HM, **Raza C**, Awad EM, Ali S, Khan SY, Barisani-Asenbauer T. Synergistic effect of silk sericin and curcumin to treat an inflammatory condition. *Journal of Burn Care & Research*. doi.org/10.1093/jbcr/irac157 (2022). (IF 1.819) W-category. Q3 journal (Web of Science)
13. Hanif U, **Raza C**, Liaqat I, Rani M, Afifi SM, Esatbeyoglu T, Bahadur S, Shahid S. Evaluation of Safety of Stewart's Wood Fern (*Dryopteris stewartii*) and its Anti-Hyperglycemic Potential in Alloxan-Induced Diabetic Mice. *International Journal of Molecular Sciences*. 23(20), 12432; <https://doi.org/10.3390/ijms232012432> (2022). (IF 6.21) W-category. Q1 journal (Web of Science)
14. Akram R, Anwar H, Javed MS, Rasul A, Imran A, Malik SH, **Raza C**, Khan IU, Sajid F, Iman T, Sun T, Han HS, Hussain G. Axonal Regeneration: Underlying Molecular Mechanisms and Potential Therapeutic Targets. *Biomedicines* 2022, 10(12), 3186. (IF 5.612). W-category. Q2 journal (Web of Science)

15. Liaqat I, Durrani AI, Zafar U, Rubab S, Faheem M, Mubin M, **Raza C**, Aftab N. Role of modified diet and gut microbiota in metabolic endotoxemia in mice. *Arch Microbiol.* (2021). Doi:10.1007/s00203-021-02491-4. (IF 2.552) X-category. Q4 journal (Web of Science)
16. Butt SA, Tahir HM, Ali S, Tariq M, Hassan A, Summer M, **Raza C**, Khan SY. Evaluation of anti-scorpion (*Hottentota tamulus*) venom potential of native plants extracts using mice model. *Toxin Reviews.* (2021). <https://doi.org/10.1080/15569543.2021.1933533>. (IF 3.84) Y-category. Q3 journal (Web of Science)
17. Tariq M., Tahir HM, Butt SA, Ali S., Ahmad AB, **Raza C**, Summer M, Hassan A. and Nadeem J. Silk derived formulations for accelerated wound healing in diabetic mice. *PeerJ.* (2021). 9:e10232 <http://doi.org/10.7717/peerj.10232>. (IF 3.061)W-category. Q2 journal (Web of Science)
18. **Raza C.**, Riaz HA, Anjum R. & Shakeel NA. Repair Strategies for injured peripheral nerve: Review. *Life Sciences.* 243(2020). doi.org/10.1016/j.lfs.2020.117308. (IF 5.037)
19. Tahir HM., Jabeen P., **Raza C.** & Ali S. Silk of spider and *Bombyx mori*: An overview. *Punjab University Journal of Zoology.* 2019. 34(2):221-229. (IF 0.126)
20. **Raza C.**, Anjum R., & Shakeel NA. Parkinson's disease: Mechanisms, translational models and management strategies. *Life Sciences.* 226 (2019): 77-90. (IF 5.037)
21. Yaqub A., Faheem I., Anjum KM., Ditta SA., Yousaf MZ., Tanvir F. & **Raza C.** Neurotoxicity of ZnO nanoparticles and associated motor function deficits in mice. *Applied Nanoscience.* 2019. doi.org/10.1007/s13204-019-01093-3. (IF 3.674)
22. Li, YF., Z, PP., Yan, SJ., Xu, JY., Niaz, SI., **Raza, C.**, Ma, CHE., Lin, YC., Li, J. and Liu, L. 2017. Atranones with enhancement neurite outgrowth capacities from the crinoid-derived fungus *Stachybotrys chartarum* 952. *Tetrahedron.* 73(2017): 7260-7266. (IF 2.379)
23. **Raza, C.**, Liaqat, S., Bashir, S., Naseer, M. and Ishrat, N. Characterization of Crude Oil Contaminated Soil Bacteria and Laboratory-scale Biodegradation Experiments. *Biologia-Pakistan.* 2011. 57(1&2): 47-54.
24. **Raza, C.**, Bilal, A. and Jahan, N. Evaluation of Biodegradation Potential of Bacteria in Crude Oil Contaminated Soil. *Biologia-Pakistan.* 2010. 56(1&2): 77-86.

#### Journal Article Reviewed

Reviewed Research / Review articles of, *Progress in Neuro-Psychopharmacology & Biological Psychiatry, Experimental and Therapeutic Medicine, Neural Regeneration Research, Bosnian Journal of Basic Medical Sciences, Neurodegenerative Disease management, Health Services Insights, Frontiers in Bioscience, Environmental Science and Pollution Research, Gene, Phytotherapy Research.*

#### Book Chapters:

1. Iram Liaqat, Shiza, **Chand Raza**, Saiqa Andleeb, Sher Zaman Safi, Muhammad Arshad. Pioneering Lipase Applications in Textile Manufacturing. In book: *Enzymes in Textile Processing: A Climate Changes Mitigation Approach*. DOI 10.1007/978-981-97-8058-7\_10.

#### Published Abstracts

1. **C. Raza**, K.S.Y. Leung. & C.H.E. Ma. Antrodia cinnamomea promotes neuritogenesis in mouse primary dorsal root ganglia neurons. Program#:209.01/A26. Society for Neuroscience. November 15-19, 2014. Washington, DC. (Poster presentation)
2. **C. Raza**, K.S.Y. Leung. & C.H.E. Ma. Antrodia cinnamomea promotes functional recovery after sciatic nerve crush injury in mice. Session#:406.05/I28. Society for Neuroscience. October 17-21, 2015. Chicago, IL. (Poster presentation)
3. **C. Raza**, K.S.Y. Leung. & C.H.E. Ma. Targeted delivery of Antrodin B-loaded poly (lactic-co-glycolic acid) nanoparticles to neurons promotes functional recovery after peripheral nerve injury. Poster#: P39. Neuroscience Symposium May 18, 2016. The University of Hong Kong, Hong Kong. (Poster presentation)

4. **C. Raza**, C.H.E. Ma. Naringin enhances intrinsic growth capacity of axotomized neurons and functional recovery in mice. *BMS Research Gala*. 2017. Abstract No. 26. Hong Kong Science Park, Hong Kong. (Poster presentation)
5. **Raza C.**, Anjum R., Faheem, M. & Hussain, N. Anti-oxidant capacities of *Moringa oleifera* rescue rotenone-induced Parkinson's disease in mice. Poster #:107. International conference on Recent Innovation in Molecular Sciences November 06-08, 2019. University of the Punjab, Lahore, Pakistan. (Poster presentation)
6. Rasheed H., Jurrat H. & **Raza C.** Promoting effects of *Azadirachta indica* on mice peripheral nerve regeneration. 3<sup>rd</sup> International conference on Innovative Biological and Public Health Research. November 13-14, 2019 at GC University Lahore, Pakistan. (Oral presentation)
7. Anjum R., **Raza C.** & Faheem M. *Moringa oleifera* induced neuroprotection reduces the rotenone-induced motor impairments in mouse model of Parkinson's disease. 3<sup>rd</sup> International conference on Innovative Biological and Public Health Research. November 13-14, 2019 at GC University Lahore, Pakistan. (Oral presentation)
8. Shakeel, NA., Tahir HM. & **Raza C.** *In vivo* studies of Silk Fibroin and Chitosan blend for functional peripheral nerve regeneration in albino mice. 3<sup>rd</sup> International conference on Innovative Biological and Public Health Research. November 13-14, 2019 at GC University Lahore, Pakistan. (Oral presentation)
9. Rida, Afzal S., Faheem M. & **Raza C.** Bisphenol-A delays the sensory functional recovery following peripheral nerve injury in mice. 3<sup>rd</sup> International conference on Innovative Biological and Public Health Research. November 13-14, 2019 at GC University Lahore, Pakistan. (Oral presentation)
10. Afzal S., Rida. & **Raza C.** Neuroprotective capacities of *Moringa oleifera* augment peripheral nerve regeneration in mice. 3<sup>rd</sup> International conference on Innovative Biological and Public Health Research. November 13-14, 2019 at GC University Lahore, Pakistan. (Oral presentation)
11. Asthana, P., Au, N.P.B., **Raza C.** & Ma C.H.E. Targeting mitochondrial dynamics as a therapeutic intervention to promote axonal regeneration. Presented at SfN Global Connectome (Virtual Event) held on 11-13 January, 2021.
12. Jurrat H. & **Raza C.** Regenerative capacities of *Azadirachta indica* extract augment functional recovery following nerve injury in mice. Virtual presentation at 1<sup>st</sup> International Brain and Biosciences Conference held at Government College University Faisalabad on 18-19 May, 2023.
13. Maqbool M. & **Raza C.** Protective potential of *Mentha arvensis* extracts on rotenone induced motor deficits in mice. Virtual presentation at 1<sup>st</sup> International Brain and Biosciences Conference held at Government College University Faisalabad on 18-19 May, 2023.
14. Afzal S. & **Raza C.** *Mucuna pruriens* augments impaired sensory and motor functional recovery following peripheral nerve injury. Virtual presentation at 1<sup>st</sup> International Brain and Biosciences Conference held at Government College University Faisalabad on 18-19 May, 2023.
15. Mushtaq A., Kanwal S., Khan A. & **Raza C.** Preventive effect of *Adiantum raddianum* extract on memory impairment and neuroprotection in mouse model of Alzheimer's disease. 5<sup>th</sup> International conference on Innovative Biological and Public Health Research. October 11-12, 2023 at GC University Lahore, Pakistan. (Oral presentation)
16. Khan A., Khan KU., **Raza C.** & Zahid M.T. The influence of scorpion venom intoxication on sensory functional recovery of peripheral nerve regeneration in mice and hematological perspectives. 5<sup>th</sup> International conference on Innovative Biological and Public Health Research. October 11-12, 2023 at GC University Lahore, Pakistan. (Oral presentation)
17. Farooque, T. **Raza C.** & Khan A. Extract from a culinary herb (*Anethum graveolens*) protects rotenone inflicted mouse model of Parkinson's disease from motor dysfunctions through antioxidant based neuroprotective potential. 5<sup>th</sup> International conference on Innovative Biological and Public Health Research. October 11-12, 2023 at GC University Lahore, Pakistan. (Oral presentation)

18. Kanwal S., Mushtaq A., Khan A. & **Raza C.** Preventive effect of *Eurale ferox* extract on memory impairment and neuroprotection in mouse model of Alzehiemer disease. 5<sup>th</sup> International conference on Innovative Biological and Public Health Research. October 11-12, 2023 at GC University Lahore, Pakistan. (Oral presentation)
19. Zahra G. **Raza C.** & Khan A. Investigation of promoting effects of *Acorus calamus* extracts on mice peripheral nerve regeneration. 5<sup>th</sup> International conference on Innovative Biological and Public Health Research. October 11-12, 2023 at GC University Lahore, Pakistan. (Poster presentation)

#### Thesis Supervised

Program	Students	Status
PhD Zoology	01	Completed
	01	In Progress
MPhil Zoology	17	Completed
	07	In Progress
BS Zoology	20	Completed
	05	In Progress

#### Presentations/Conference Participation

2023	Poster presentation “Investigation of promoting effects of <i>Acorus calamus</i> extracts on mice peripheral nerve regeneration.” at 2-days international conference on Innovative Biological and Public Health Research, held at GC University Lahore, Pakistan. Dated: October 11-12, 2023. (Presented by MPhil Scholar, Gulshan Zahra & got 3 <sup>rd</sup> Best Poster Presentation Award)
2023	Oral presentation “Preventive effect of <i>Eurale ferox</i> extract on memory impairment and neuroprotection in mouse model of Alzehiemer disease” at 2-days international conference on Innovative Biological and Public Health Research, held at GC University Lahore, Pakistan. Dated: October 11-12, 2023. (Presented by MPhil Scholar, Shaista Kanwal)
2023	Oral presentation “Extract from a culinary herb ( <i>Anethum graveolens</i> ) protects rotenone inflicted mouse model of Parkinson’s disease from motor dysfunctions through antioxidant based neuroprotective potential” at 2-days international conference on Innovative Biological and Public Health Research, held at GC University Lahore, Pakistan. Dated: October 11-12, 2023. (Presented by MPhil Scholar, Taha Farooque)
2023	Oral presentation “The influence of scorpion venom intoxication on sensory functional recovery of peripheral nerve regeneration in mice and hematological perspectives” at 2-days international conference on Innovative Biological and Public Health Research, held at GC University Lahore, Pakistan. Dated: October 11-12, 2023. (Presented by PhD Scholar, Abbas Khan)
2023	Oral presentation “Preventive effect of <i>Adiantum raddianum</i> extract on memory impairment and neuroprotection in mouse model of Alzheimer’s disease” at 2-days international conference on Innovative Biological and Public Health Research, held at GC University Lahore, Pakistan. Dated: October 11-12, 2023. (Presented by MPhil Scholar, Anum Mushtaq)
2023	Oral presentation “ <i>Mucuna pruriens</i> augments impaired sensory and motor functional recovery following peripheral nerve injury” at 1 <sup>st</sup> International Brain and Biosciences Conference held at Government College University Faisalabad on 18-19 May, 2023. (Presented by MPhil Scholar, Sidra Afzal)
2023	Oral presentation “Protective potential of <i>Mentha arvensis</i> extracts on rotenone induced motor deficits in mice” at 1 <sup>st</sup> International Brain and Biosciences Conference held at

- Government College University Faisalabad on 18-19 May, 2023. (Presented by MPhil Scholar, Maria Maqbool)
- 2023 Oral presentation “Regenerative capacities of *Azadirachta indica* extract augment functional recovery following nerve injury in mice” at 1<sup>st</sup> International Brain and Biosciences Conference held at Government College University Faisalabad on 18-19 May, 2023. (Presented by MPhil Scholar, Husna Jurrat)
- 2021 Oral presentation “*Mucuna pruriens* extract mediates functional recovery in mice following sciatic nerve crush injury” at 2-days international conference on Innovative Biological and Public Health Research, held at GC University Lahore, Pakistan. Dated: December 07-08, 2021. (Presented by MPhil Scholar, Sidra Afzal)
- 2021 Oral presentation “*Azadirachta indica* extract enhance functional recovery and extent of neuromuscular junctions re-innervation in mice following sciatic nerve injury” at 2-days international conference on Innovative Biological and Public Health Research, held at GC University Lahore, Pakistan. Dated: December 07-08, 2021. (Presented by MPhil Scholar, Husna Jurrat)
- 2021 Oral presentation “*Moringa oleifera* seed extracts impart neuroprotection through antioxidant means in rotenone-induced Parkinson disease mouse model” at 2-days international conference on Innovative Biological and Public Health Research, held at GC University Lahore, Pakistan. Dated: December 07-08, 2021. (Self-presented)
- 2021 Oral presentation “Seed extracts of *Moringa oleifera* protects mice against rotenone-induced Parkinson disease motor impairments” at 2-days international conference on Innovative Biological and Public Health Research, held at GC University Lahore, Pakistan. Dated: December 07-08, 2021. (Presented by MPhil Scholar, Sehrish Mohsin)
- 2021 Paper presentation “Targeting mitochondrial dynamics as a therapeutic intervention to promote axonal regeneration” at SfN Global Connectome (Virtual event). January 11-13, 2021. (Presented by Pallavi Asthana)
- 2019 Oral presentation “Neuroprotective capacities of *Moringa oleifera* augment peripheral nerve regeneration in mice” at 2-days international conference on Innovative Biological and Public Health Research, held at GC University Lahore, Pakistan. Dated: November 13-14, 2019. (Presented by MPhil Scholar, Sidra Afzal)
- 2019 Oral presentation “Bisphenol-A delays the sensory functional recovery following peripheral nerve injury in mice” at 2-days international conference on Innovative Biological and Public Health Research, held at GC University Lahore, Pakistan. Dated: November 13-14, 2019. (Presented by MPhil Scholar, Sidra Afzal)
- 2019 Oral presentation “*In vivo* studies of Silk Fibroin and Chitosan blend for functional peripheral nerve regeneration in albino mice” at 2-days international conference on Innovative Biological and Public Health Research, held at GC University Lahore, Pakistan. Dated: November 13-14, 2019. (Presented by MPhil Scholar, Noor ul Ain)
- 2019 Oral presentation “*Moringa oleifera* induced neuroprotection reduces the rotenone-induced impairments in mouse model of Parkinson’s disease” at 2-days international conference on Innovative Biological and Public Health Research, held at GC University Lahore, Pakistan. Dated: November 13-14, 2019. (Presented by MPhil Scholar, Rabia Anjum)
- 2019 Oral presentation “Promoting effects of *Azadirachta indica* on mice peripheral nerve regeneration” at 2-days international conference on Innovative Biological and Public Health Research, held at GC University Lahore, Pakistan. Dated: November 13-14, 2019. (Presented by MPhil Scholar, Husna Jurrat)

2019	Presented poster entitled “Anti-oxidant capacities of <i>Moringa oleifera</i> rescue rotenone-induced Parkinson’s disease in mice” at 3-days international conference on Recent Innovation in Molecular Sciences, held at University of the Punjab, Pakistan. Dated: November 06-08, 2019. (Presented by MPhil Scholar, Rabia Anjum)
2018	Presented poster entitled “ <i>Moringa oleifera</i> as biopesticide” at One day workshop on Insecticide resistance and possible solutions, held at GC University Lahore, Pakistan. Dated: October 10, 2018. (Presented by MPhil Scholar, Sidra Afzal)
2017	Presented poster entitled “Naringin enhances intrinsic growth capacity of axotomized neurons and functional recovery in mice” at BMS Research Gala 2017, Hong Kong Science & Technology Park, Hong Kong. Dated: June 05, 2017. (Self-presented)
2016	Presented poster entitled “Targeted delivery of antrocin B-loaded poly(lactic-co-glycolic acid) nanoparticles to neurons promotes functional recovery after peripheral nerve injury” at Neuroscience Symposium 2016 held at The University of Hong Kong, Hong Kong. (Self-presented)
2015	Presented poster entitled “ <i>Antrodia cinnamomea</i> promotes functional recovery after sciatic nerve crush injury in mice” at <i>Society for Neuroscience</i> 2015 held at Chicago, IL, USA. (Self-presented)
2014	Poster accepted entitled “ <i>Antrodia cinnamomea</i> promotes neuritogenesis in mouse primary dorsal root ganglia neurons” at <i>Society for Neuroscience</i> 2014 held at Washington DC, USA. (Self-presented)

#### Scholarships, Grant & Award

2023	3 <sup>rd</sup> Best Poster Presentation Award at 5 <sup>th</sup> international conference on “Innovative Biological and Public Health Research IBPHR-23” organized at Government College University Lahore, Pakistan. October 11-12, 2023.
2016	Best Poster Presentation Award at <i>Neuroscience Symposium 2016 “Nature and Nurture in Brain Functions”</i> from Hong Kong Society of Neurosciences. May 18, 2016.
2016	HEC Partial Support for PhD Studies Abroad. Awarded on April 26, 2018.
2015	Conference Grant for <i>Society for Neuroscience</i> 2015 participation from UGC-Hong Kong
2013-16	UGC-Funded PhD Scholarship from Hong Kong Government. Duration: September 2013 to August 2016.

#### Courses Designed (Approved)

Level	Course Title
MPhil Zoology	Pathobiology of Neurodegenerative Diseases (Cr. Hr. 3)
MPhil Zoology	Nervous System: Structure & Function (Z-7241) (Cr. Hr. 3)
PhD Zoology	Neurological Disorders and Neural Regeneration (Cr. Hr. 3)
PhD Zoology	Biomaterials and Applications. (Cr. Hr. 3)

#### University Level Administrative Responsibilities

2022	Director / In-charge “International Students Office” of GC University Lahore.
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#### Departmental Responsibilities

2024	In-charge “Non-Teaching Staff” of Department of Zoology, GC University Lahore
2021	Departmental Focal Person for online admissions (Undergraduate class)
2020-22	Information Technology (IT) coordinator, Department of Zoology, GC University Lahore
2018-20	In-charge Departmental Time Table
2018-22	In-charge Animal Housing Facility, GC University Lahore.

#### External Examiner

2019	BS (Hons) Zoology, NICAAS College, Rahim Yar Khan (GCU Lhr. affiliated)
2019	BSc Zoology, University of Azad Jammu & Kashmir
2019	BS (Hons) Zoology, Gabriel College Mandi-bahauddin (GCU Lhr. affiliated)

2018 BSc Zoology, University of Azad Jammu & Kashmir  
 2018 BS (Hons) Zoology, University of the Punjab Lahore

#### **Membership in Organization**

2025 Co-Advisor “**Society of Molecular Biosciences**”  
 2024 Advisor “**Zoological Society at GC University Lahore**”  
 2015 Member of “**Society for Neuroscience**”.  
 2014 Member of “**Society for Neuroscience**”.  
 2010 Founder Fellow of “**Pakistan Wildlife Foundation**”.  
 2009 Life Fellow of “**Pakistan Fisheries Society**”.  
 2004-06 Member of “**Biological Society**” of GCU Lahore, Pakistan”.  
 2002-04 Finance Secretary of “**Kinsfolk**” a biological students organization at Govt. College  
 Gujranwala, Pakistan.

#### **Conferences, Symposia, Seminars and Trainings Attended**

2023 Participated and organized 5<sup>th</sup> international conference on “Innovative Biological and Public Health Research” as Focal Person, held on October 11-12, 2023 at Government College University Lahore, Pakistan.  
 2023 Participated in One-Day Workshop on “A journey of science, from research to publication”, held on May 09, 2023 at Government College University Lahore, Pakistan.  
 2023 Participated in Three Days Training Workshop on “Sericulture Skill Development and Income Generation Opportunities for Students” held at Government College University Lahore on May 02-04, 2023  
 2023 Participated in one-day seminar on “Fisheries & Aquaculture” held at Government College University Lahore, Pakistan on February 14, 2023.  
 2022 Participated in “International Conference on Fisheries and Aquaculture” held at Government College University Lahore, Pakistan on 23-24 Nov, 2022.  
 2022 Participated in one-day seminar “Importance of Intellectual Property Rights in Academia” held on September 22, 2022 at Government College University Lahore, Pakistan.  
 2022 Participated in “Two Days Workshop on Gene Expression and Protein Profiling” organized by Department of Zoology, GCU Lahore on September 08-09, 2022.  
 2022 Participated in “Two Days Workshop on Gene Cloning” organized by Department of Zoology, GCU Lahore on August 25-26, 2022  
 2022 Participated in “Two days basic hands on skill development training workshop in proteomics” organized by Department of Zoology, GCU Lahore on August 04-05, 2022  
 2022 Participated in “Two Days workshop on DNA Isolation and PCR” organized by Department of Zoology, GCU Lahore on June 16-17, 2022  
 2021 Participated in “One Week Training Workshop on Fauna Study” organized by Department of Zoology, GCU Lahore from October 21, 2021  
 2021 “4<sup>th</sup> International conference on Innovative Biological and Public Health Research (IBPHR-2021)” held on December 07-08, 2021 at GC University Lahore, Pakistan.  
 2020 “Bio-control Training Workshop (International)” held on August 20-22, 2020 at GC University Lahore by IOBC and GCU Lahore, Pakistan.  
 2020 “International Online Symposium on Fisheries and Aquaculture” held on August 12-14, 2020. Organized by Department of Zoology, GC University Lahore, Pakistan.  
 2019 “World Fisheries Day 2019” held on November 22, 2019 at GC University Lahore, Pakistan.  
 2019 “Workshop/Training on how poor posture challenges in individual’s performance at all levels and its management” held on November 15, 2019 at GC University Lahore, Pakistan.



- 2019 “3<sup>rd</sup> International conference on Innovative Biological and Public Health Research (IBPHR-2019)” held on November 13-14, 2019 at GC University Lahore, Pakistan.
- 2019 “National Workshop on Bioinformatics and Statistical Data Analysis” held on March 12, 2019 at GC University Lahore, Pakistan.
- 2019 “2<sup>nd</sup> International Seminar on Fisheries and Aquaculture” held on February 1, 2019 at GC University Lahore, Pakistan.
- 2018 “Insecticide Resistance and Possible Solutions” held on October 18, 2018 at GC University Lahore, Pakistan.
- 2018 “3<sup>rd</sup> International Conference on Bio-Sciences 2018” held on May 9-10, 2018 at GC University Lahore, Pakistan.
- 2017 2<sup>nd</sup> International conference on “Innovative Biological and Public Health Research (IBPHR-2017)” held on December 6-7, 2017 at GC University Lahore, Pakistan.
- 2016 “Neuroscience Symposium 2016 & Annual Scientific Conference of The Hong Kong Society of Neuroscience” held on May 18, 2016 at The University of Hong Kong, Hong Kong.
- 2015 “fNIRS Brain Imaging Workshop” held on June 12, 2015 at The Hong Kong Polytechnic University, Hong Kong.
- 2015 “Society for Neuroscience” held on October 17-21, 2015 at Chicago, IL, USA.
- 2013 “From Gene Hunting to Genomic Medicine: A Celebration with Lap-Chee Tsui and Friends” held on December 13-14, 2013 at The University of Hong Kong.
- 2011 “Biosafety Training Workshop for Young Scientists” held on July 09, 2011 at The University of Lahore.
- 2011 “Wildlife Talks-01” held on May 04, 2011 at Department of Zoology, University of Punjab, Quaid-e-Azam Campus Lahore.
- 2010 “Professional Competency Enhancement Program for Teachers (PCEPT)” held on May 17 to Jun 17, 2010 in Noon-Meem Rashid Seminar Hall, GC University Lahore.
- 2010 “All Pakistan Congress of Zoology” held on March 2-4, 2010 at University of Agriculture Faisalabad.
- 2010 “Digital Cartography” held on Jan 04-09, 2010 at Department of Geography, GC University Lahore.
- 2009 4th National Symposium on Fisheries held on March 18-19, 2009 by Punjab Fisheries Board in GOR-1, Lahore.
- 2009 HRDC Cycle IV training by QEC, GC University, Lahore.
- 2005 3rd National Symposium on Fisheries held on April 25-26, 2005 at GC University, Lahore.