

## CV

**Personal Profile**

Name: **Dr. Muzafar Shah**  
 Qualification: PhD Zoology (Systematics)  
 Current Position: Assistant Professor, Centre for Animal Sciences & Fisheries (CAS&F), University of Swat, Pakistan.  
 Email: muzafar@uswat.edu.pk/ muzafarshah39@gmail.com  
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**Academics Qualification**

Title of the Degree	Year	University
Ph.D (Zoology: Systematics)	2015	Hazara University Mansehra, Pakistan & Richard Gilder Graduate School New York, USA
M. Phil (Zoology: Entomology)	2011	Hazara University Mansehra, Pakistan
M.Sc (Zoology: Parasitology)	2008	University of Peshawar, Pakistan

**Experience**

- **Assistant Professor**, Center for Animal Sciences and Fisheries, University of Swat, KP, Pakistan. **December 2, 2015 to till date.**
- **Assistant Professor**, Fatma-tu-Zuhra Post graduate Girls College Mansehra. **June 2014 to Nov. 2015.**
- **Research Associate**, American Museum of Natural History, Central Park at West 79<sup>th</sup> Street, 10024 NY, New York, USA. **June 2013- May 2014.**

**Research Projects**

- Estimation of Genetic diversity of Insects of Malakand Division, Pakistan. (2.5 Million). Funded by Higher Education Commission (**Completed**).
- Biosystematics of Wasp species (Hymenoptera: Vespidae) of Hazara Region, Pakistan. Funded by Higher Education Commission (**Completed**).
- Taxonomic and DNA barcoding of Vespidae fauna of Khyber Pakhtunkhwa. SRGP 0.5 million, Funded by Higher Education Commission (**Completed**).
- Nest architectural patterns of wasp species of Mansehra, Pakistan. Funded by Hazara University Mansehra, Pakistan.

**Collaboration for research work**

- American Museum of Natural History New York, USA.
- National Museum of Insect Sciences, NARC, Islamabad.
- Richard Gilder Graduate School, New York, USA.
- Centre for OMIC, Peshawar

**Membership Societies/ Editorial Board**

- International Society of Hymenoptera (ISH), USA
- Entomological Society of Washington (ESW), USA
- Brazilian Journal of Biology
- Metropolitan Society of Historian, New York (MSH), USA
- British Ecological Society Journals, London (BESJ). UK
- Zoological Society of Pakistan (ZSP), Pakistan.
- Board of Studies University of Swat, KP, Pakistan
- Board of Studies, University of Swabi, KP, Pakistan
- University of Sindh Journal of Animal Sciences, Pakistan
- Biologia Pakistan.
- Pakistan Journal of Zoology.

**List of M.Phil Students Supervised**

1. Iqbal Hussain (M.Phil) 2020.
2. Ahmad Ali (M.Phil) 2020
3. Rabia Qazi (M.Phil) 2019.
4. Hina Habib Sayed (M.Phil) 2019.
5. Anwar Sultana (M.Phil) 2018.

### List of PhD Students Under supervision

1. Kausar Saeed (PhD)
2. Israr Alam (PhD)
3. Anwar Sultana (PhD)

### MSc Student Supervised 45 Students supervised

### BS Student Supervised 40 students supervised

### List of Publication

S.No.

- Naseer Ullah, Amir Said, Muzafar Shah, Muhammad Israr, Akhtar Rasool, Fazal Akbar, Munawar Saleem Ahmad, Shabir Ahmad, Sardar Azhar Mehmood, Hina Jabeen, Kausar Saeed, Muhammad Siraj. 202. Effect of different protein based feed on the growth of mahseer. *Brazilian Journal of Biology*, 2022, vol. 82, e243670.
1. Naem Ullah, Mian Adnan Kakakhel, Israr Khan, Liu Xi, Baljeet Singh Kalra, Tanweer Kumar, Habib Ahmad, Muzafar Shah, Chunjiang Zhang. 2021. Prevalence of active HCV infection and genotypic distribution among the general population of district Mardan, Pakistan. **Journal of Biology**. vol. 82. **Ref.: BJB-241110.**
  2. Naem Ullah, Mian Adnan Kakakhel, Israr Khan, Liu Xi, Baljeet Singh Kalra, Tanweer Kumar, Habib Ahmad, Muzafar Shah, Chunjiang Zhang. 2021. Serological Prevalence of Hepatitis B Virus (HBV) in Mardan district, Khyber Pakhtunkhwa, Pakistan **Journal of Biology**. vol. 82. **Ref.: BJB-241110.**
  3. Wali Khan, Sardar Azahar Mehmood, Shabir Ahmad, **Muzafar Shah** & Akhtar Rasool. 2021. Knowledge, attitude and practices regarding dengue and its vector among medical practitioners in Malakand region, Pakistan. **Journal of Biology**. vol. 82. **Ref.: BJB-241110.**
  4. Wali Khan, Muzafar Shah. 2021. The Evaluation of vegetables for soil transmitted helminths contamination in four districts of Malakand division: northwest Pakistan: Soil transmitted helminths contamination in vegetables. **Journal of Biology**. vol. 82. **Ref.: BJB-241110. Accepted**
  5. Wali Khan, Muzafar Shah. 2021. Cutaneous leishmaniasis Awareness, knowledge and practices among general population in rural and urban areas in Malakand region, Pakistan. **Journal of Biology**. vol. 82. **Ref.: BJB-241110.**
  6. Wali Khan, Muzafar Shah. 2021. Euphlyctis Cyanophlyctis (Schneider, 1799) Amphibia: Dicroglossidae in district Lower Dir, Pakistan. **Journal of Biology**. vol. 82. **Ref.: BJB-241110.**
  7. Luqman, Kausar Saeed, Khushi Muhammad, Munawar Saleem Ahmad, Fazal Akbar, Akhtar Rasool, Muhammad Israr, Hina Jabeen, Sardar Azhar Mehmood, Shabir Ahmad, Amir Alam, Sana Ullah, **Muzafar Shah**. 2021. Biodiversity of Orb-Web Spiders (Family: Araneidae) of Buner Valley, Pakistan. **Brazilian Journal of Biology**. vol. 82. **Ref.: BJB-238337.**
  8. Naseer Ullah, Ikram Ullah, **Muzafar Shah**, Muhammad Israr, Akhtar Rasool, Fazal Akbar, Munawar Saleem Ahmad, Shabir Ahmad, Sardar Azhar Mehmood, Hina Jabeen, Kausar Saeed, Muhammad Siraj. 2021. Comparative Brain Analysis of Wild and Hatchery Reared Mahseer (*Tor putitora*) Relative to their Body Weight and Length. **Brazilian Journal of Biology**. vol. 82. **Ref.: BJB-231509. Accepted**
  9. Iftikhar Hussain, Sardar Azhar Mehmood, **Muzafar Shah**, Shabir Ahmad, Mohammad Salim, Ahmad Hussain, Sajida Noureen, Dawood Ahmed, Muhammad Israr, Fazal Akbar, Akhtar Rasool, Hina Jabeen, Kausar Saeed, Sanaullah. 2021. Systematic analysis of leisler's bat *nyctalus leisleri* (kuhl, 1817) captured from FATA Region, Pakistan. **Brazilian Journal of Biology**. vol. 82. **Ref.: BJB-238337.**
  10. Ibrar Ullah, Sahib Gul Afridi, Asif Ullah Khan, Muhammad Israr, Anwar Ali, **Muzafar Shah**, Sulaiman Shams, Hina Jabeen, Akhtar Rasool, Fazal Akbar, Murad Ali Rahat, Muhammad Haris, Ayub Khan, Muhammad Siraj. 2021. PCR-RFLP Based genetic diversity of *Plasmodium vivax* genotypes in district Mardan, Pakistan. **Brazilian Journal of Biology**. vol. 82. **Ref.: BJB-241110.**
  11. **Muzafar Shah**, Sofia Kausar, Jawad Ali Mian, Naseer Ullah, Akhtar Rasool, Fazal Akbar, Muhammad Israr, Sardar Azhar Mehmood, Shabir Ahmad, Saira Bibi, Sultan Muhammad, Muhammad Siraj, Hina Jabeen, Muhammad Arshad Ali Khan, and Wali Khan. 2021. Bioaccumulation of heavy metals in the tissues of *Schizothorax plagiostomus* at river swat. **Brazilian Journal of Biology**. vol. 82. **Ref.: BJB-243633.**
  12. Murad Ali Rahat, Hakim Khan, Muhammad Ismail Khan, Muhammad Haris, **Muzafar Shah**, Muhammad Israr, Akhtar Rasool and Hina Jabeen. 2021. Episode of Hepatitis C Viral infection in the

- people of Swat, Pakistan. **Journal of Biology**. vol. 82. Ref.: **BJB-241110**.
13. Saira Bibi, Muhammad Fiaz Khan, Aqsa Rehman, **Muzafar Shah**, Faisal Nouroz & Aneesa Nayab. **2020**. The complete mitochondrial genome of blue pansy, *Junonia orithya* (Lepidoptera: Nymphalidae: Nymphalinae) from Pakistan. **Mitochondrial DNA Part B Resources**, 5(3): 2143-2144. doi.org/10.1080/23802359.2020.1768912. **Date of Publication: May 27, 2020**
  14. Mehnaz Begum, Irum Bibi, Saira Bibi, Muhammad Fiaz Khan, **Muzafar Shah**, Nadia Bibi, Syed Waqar Hussain Shah. **2020**. Investigation of the complexation behavior of polyethylene oxide with surfactant ternary mixture: Conductometry. *Journal of Physical organic chemistry*. <https://doi.org/10.1002/poc.4173> **Date of Publication: December 09, 2020**
  15. Sardar Azhar Mehmood, Manawar Saleem Ahmad, Ahmed Zia, Shabir Ahmed, Muzafar Shah, Wali Khan and Waheed Ali Panhwar. **2020**. Molecular and Phylogenetic Analysis of Family Aeshnidae of Hazara Region, Pakistan. *International Journal of Agriculture and Biology*, 25:109-116. **Date of Publication: December 09, 2020**
  16. Saira Bibi, Muhammad Fiaz Khan, Shumaila Noreen, Aqsa Rehman, Nasir Khan, Sajid Mehmood and **Muzafar Shah**. **2020**. Morphological Characteristics of Native Chicken of Village Chhajjian, Haripur Pakistan. *Poultry Science*, 99(11): 5587-5597. **Date of Publication: November 20, 2020**
  17. Hina Habib Syed, **Muzafar Shah**, Shahid Sherzada and Masroor Elahi Babar. **2020**. Occurrence of Malaria in the Local Population of Swat Valley, Pakistan. **Pakistan Journal of Zoology**, 52(4):1615-1618. **Date of Publication: May 01, 2020**
  18. Naveed Akhtar, Riaz Muhammad, Kausar Saeed, Muhammad Fiaz Khan, **Muzafar Shah**, Jehan Zeb, Shahid Ahmad, Azam Jan Afridi and Aftab Hussain. **2018**. Distribution of Wild Mammalian Fauna of Mahaban and Malka Valley District Buner. **Pakistan Journal of Zoology**, 50(2):775-777. **Date of Publication: March 15, 2018**
  19. Nadia Saeed, Mian Sayed Khan, Habib Ahmad and **Muzafar Shah**, **2019**. Analysis and management of Phytonematodes associated with walnut (*Juglans regia* L.) In Hazara Division, Pakistan. **Punjab University Journal of Zoology**. 34(2): 191-195. **Date of Publication: December 24, 2019**
  20. Ahmed Zia, Iqtidar Hussain, Sardar Azhar Mehmood, Shabir Ahmad, **Muzafar Shah** and Abdul Rauf Bhatti. **2019**. Richness and Distribution of Odonata in Kurram District, Khyber Pakhtunkhwa. **Pakistan Journal of Agricultural Research**, 32(4):589-594. **Date of Publication: October 24, 2019**
  21. Sana Rafique, Hina Saqib, Khushi Muhammad, Nazia Akbar, Abdul Rauf, **Muzafar Shah**. **2018**. Outbreak of Dengue Fever in District Mansehra, Pakistan. **Punjab University Journal of Zoology**, 33(2): 99-102. **Date of Publication: August 04, 2018**
  22. Nadia Saeed, Mian Sayed Khan, Habib Ahmad, Muhammad Abdullah and **Muzafar Shah**. **2018**. Management of Plant Parasitic Nematodes Associated with Walnut (*Juglans regia* L.) by using Organic Amendments. **Pakistan Journal of Zoology**, 50(4):1-3. **IF.0.799**. **Date of Publication: May 24, 2018**
  23. Muhammad Ather Rafi, James M. Carpenter, Muhammad Qasim, Anjum Shehzad, Ahmed Zia, Muhammad Rafique Khan, Muhammad Ishaque Mastoi, Falak Naz, Muhammad Ilyas, **Muzafar Shah** & Abdul Rauf Bhatti. **2017**. The Vespidae fauna of Pakistan. *Zootaxa*, 4362 (1): 01-28. **IF. 0.973**. **Date of Publication: 2017**
  24. Hina Habib Sayed and **Muzafar Shah**, **2020**. Expression of Malaria in Swat Valley, Pakistan. *Pakistan Journal of Zoology*. DOI: <https://dx.doi.org/10.17582/journal.pjz/20190410130418>. **Date of Publication: July 17, 2020**
  25. Ahmad Sadiq, **Muzafar Shah** and Amir Alam. **2020**. HBA1C as a dual marker for the detection of lipid profile and cardiovascular disease in Type-II diabetic subjects. *Pakistan Journal of Zoology*. Accepted. DOI: <https://dx.doi.org/10.17582/journal.pjz/20190911090946>. **Date of Publication: July 09, 2020**
  26. Muhammad Zubair, Habib Ahmad, Brain E. Hemphil, Muhammad Tariq, **Muzafar Shah**, **2020**. Identification of Genetic Lineage of Peshawar and Nowshera tribes through Dental Morphology. *Pakistan Journal of Zoology*. DOI: <https://dx.doi.org/10.17582/journal.pjz/20190927080941>. **Date of Publication: July 27, 2020**
  27. Iftikhar Hussain, Sardar Azhar Mehmood, **Muzafar Shah**, Mohammad Salim, Shabir Ahmed, Sana Ullah, Sidra Batool, Nadia Saeed and Khalid Usman. **2020**. Morphometric and Phylogenetic Analysis of Short-Nosed Fruit Bat *Cynopterus sphinx* (Vahl, 1797) Captured from FATA Regions, Pakistan. *Pakistan Journal of Zoology*. DOI: <https://dx.doi.org/10.17582/journal.pjz/20190410130412>. **Date of Publication: July 13, 2020**
  28. Murad Ali Rahat, Adil Shah Khan, Romana Bibi, Muhammad Haris, Fazal Akbar, **Muzafar Shah**, Akhtar Rasool, Muhammad Israr. **2020**. Monozygotic and Dizygotic Twins Differences in Fingerprint Patterns of Swat District. *Adv. Life Sci.* 7(4): 232-236. **Date of Publication: August 31, 2020**
  29. **Muzafar Shah**, Mian Sayed Khan, Muhammad Ather Rafi and Habib Ahmed and James M. Carpenter. **2017**. Phylogenetic reconstruction of *Ropalida brevita* (Vespidae: Polistinae) using 12S rRNA and Cytochrome oxidase 1(Co1) genes. *Pakistan Journal of Zoology*, 49(4):1535-1537. **IF.0. 799** **Date of Publication: July 12, 2017**
  30. **Muzafar Shah**, Mazhar Ali, Sardar Azhar Mehmood, Shabir Ahmad, Khushi Muhammad, Israr Alam, Kausar Saeed. **2018**. A Report on Incidence of Malarial Disease in Local Population of Barikot, Swat. **Punjab University Journal of Zoology**, 33(1): 54-56. **Date of Publication: May 15, 2018**

31. Bashir Ahmad, Wali Khan, Samina Yasmin, Sardar Azhar Mehmood, Shabir Ahmed, Sanjota Nirmal Das, **Muzafar Shah** and Ruhoollah Iqbal. **2020**. Prevalence of intestinal protozoans parasites of household dogs and risk perception of their Zoonosis in District Swabi, Pakistan. *Bioscience Research*. 17(3): 2223-2232. **Date of Publication: September 20, 2020**
32. Sardar Azhar Mehmood, Ahmad Zia, Shabir Ahmed, **Muzafar Shah**, Irfanullah. **2020**. Seasonal abundance and distribution of dragonflies in upper Siran valley of District Mansehra Pakistan. *Brazilian Journal of Biology*, <https://doi.org/10.1590/1519-6984.231538>. **Date of Publication: 2020**
33. Shabir Ahmed, Syed Ahmad Zia, Sardar Azhar Mehmood, Waheed Ali Panhwar, Wali Khan, **Muzafar Shah**. **2020**. Change in melate dehydrogenase and alpha amylase activities in *Rubus fruticosus* and *Valeriana jatamansi* treated granary weevil, *Sitophilus granaries*. *Brazilian Journal of Biology*, <https://doi.org/10.1590/1519-6984.226952>. **IF.1.266. Date of Publication: 2020**
34. Wali Khan, Sardar Azahar Mehmood, Shabir Ahmad, **Muzafar Shah** & Akhtar Rasool. **2020**. Roosting ecology and morphometric analysis of *Pteropus giganteus* (Indian flying fox) in lower Dir, district, Pakistan. *Brazilian Journal of Biology*, <https://doi.org/10.1590/1519-6984.221935>. **IF.1.23 Date of Publication: 2020**
35. Kausar Saeed, Sharjeel Ahmad Shehzad, Ghazanfar Mujtaba, **Muzafar Shah**, Israr Alam. **2018**. Exploring the ladybird beetle of (Coleoptera: Coccinilidae) of District Mardan, *Pro.Pak. J. Zoology*. **(HEC Recognized)**
36. Mehran Yousafzai, Kausar Saeed, **Muzafar Shah**, Israr Alam. **2018**. Exploring the wild mammalian Diversity of District Tor Ghar, Khyber Pakhtunkhwa, Pakistan. *Pro.Pak. J. Zoology*. **(HEC Recognized)**
37. **Muzafar Shah**, James M. Carpenter, Mian Sayed Khan, Muhammad Ather Rafi, Habib Ahmad and Bakhtiar Muhammad. **2014**. *Rhynchium quinquecinctum* mitochondrial gene for 12s ribosomal RNA, sequence. Locus 16622. Accession no. LCO16622; NCBI, USA.
38. **Muzafar Shah**, James M. Carpenter, Mian Sayed Khan, Muhammad Ather Rafi, Habib Ahmad and Bakhtiar Muhammad. **2014**. *Delta conoideum* mitochondrial gene for 16s ribosomal RNA, sequence. Locus 16623. Accession no. LCO16623; NCBI, USA.
39. **Muzafar Shah**, James M. Carpenter, Muhammad Shahid Nadeem, Adrien Perrad and Khushi Muhammad. **2014**. *Delta dimidiatipenne* 12s, mRNA, Battagram, Pakistan, complete cds. GenBank, Accession no. LCO09425; NCBI, USA. **(HEC Recognized)**
40. **Muzafar Shah**, James M. Carpenter, Mian Sayed Khan, Muhammad Ather Rafi, Habib Ahmad and Bakhtiar Muhammad. **2014**. *Anterhynchium abdominale* mitochondrial gene for 12s ribosomal RNA, sequence. Locus 16621. Accession no. LCO16621; NCBI, USA. **(HEC Recognized)**
41. **Muzafar Shah**, James M. Carpenter, Mian Sayed Khan, Muhammad Ather Rafi, Habib Ahmad and Bakhtiar Muhammad. **2014**. *Delta esuriens* mitochondrial gene for 16s ribosomal RNA, sequence. Locus 16624. Accession no. LCO16624; NCBI, USA.
42. Farzana Perveen and **Muzafar Shah**. **2013**. Nest architectural patterns of by three wasp species (*Vespa velutina*, *Polistes flavus* and *Sceliphron formosum*) with reference to their behavior. *International Journal of Insect Sciences*, 5: 1-8. (doi: 10.4137/IJIS.S10737). **(HEC Recognized)**
43. Iftikhar Hussain, **Muzafar Shah**, Mian Sayed Khan and Muhammad Saqlian. **2013**. Prevalence of Hepatitis C Patients in Parachinar, FATA, Pakistan. *Int. J. of Bio*, 3(4): 142-154. **(HEC Recognized)**
44. Naseer Ullah, Mian Sayed Khan and **Muzafar Shah**. **2013**. Infestation of helminthes parasite in sheep, *Ovis aries* (L.) in District Peshawar, Pakistan. *Int.J.Bio*, 3(2):28-34. **(HEC Recognized)**
45. Sher Shah, Khan Sher, **Muzafar Shah** and Ahmad Hussain. **2013**. Socioeconomic and Biological conditions of Saif-ul-Malook National Park, Pakistan. *Journal of Biodiversity and Environmental Sciences*, 3(3):21-29. **(HEC Recognized)**

### Published National/ International Proceedings

1. **Muzafar Shah**, Farzana Perveen and Mian Sayed Khan, **2012**. Comparative study of three wasp (*Polistes flavous*, *Vespa velutina* and *Sceliphron formosum*) of Mansehra, Pakistan. *Pakistan Journal of Zoology*, Ent-23. **(HEC Recognized)**
2. Farzana Perveen and **Muzafar Shah**. **2012**. Nest architectural patterns of by three wasp species (*Vespa velutina*, *Polistes flavus* and *Sceliphron formosum*) with special reference to their parental care. *Pakistan Journal of Zoology*. **(HEC Recognized)**
3. **Muzafar Shah**, Mian Sayed Khan, Muhammad Ather Rafi, James M. Carpenter. **2016**. Taxonomic study of wasps species (hymenoptera: Vespidae) from Hazara Region, Khyber Pakhtunkhwa, Pakistan. *Pakistan Journal of Zoology*. **(HEC Recognized)**

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4. **Muzafar Shah**, Mian Sayed Khan and Habib Ahmad. **2016**. Incidence of tuberculosis in hospitalized patient in DHQ hospital Dir Upper, Pakistan. *American Journal of Advance Microbiology*. **(HEC Recognized)**
5. **Muzafar Shah**, James Michael Carpenter, Mian Sayed Khan and Muhammad Ather Rafi. **2015**. Diversity of *Polistinae* in Mansehra, Pakistan. *Journal of Zoological Studies: Springer link*. **(HEC Recognized)**
6. Fahim Raz Ahmed, Shabir Ahmed and **Muzafar Shah**. **2015**. Molecular Characterization of Waziri sheep breed of Wana, South Waziristan Agency (FATA). *Proceeding Pak. J. Zoology*, 1-65. **(HEC Recognized)**
7. Shabir Ahmed, Sardar Azhar Mehmood and **Muzafar Shah**. **2015**. Incidence of Dengue fever in District Head Quarter Hospital (DHQ) Mansehra. *Proceeding Pak. J. Zoology*.1-65. **(HEC Recognized)**
8. Imran Barki, Shabir Ahmed and **Muzafar Shah**. **2015**. Molecular Characterization of Waziri sheep breed of Wana, South Waziristan Agency (FATA). *Proceeding Pak.J. Zoology*, 1-65. **(HEC Recognized)**
9. Naveed Anjum, Sardar Azhar Mehmood and **Muzafar Shah**. **2015**. Prevalence of tuberculosis in District Dir Upper, Khyber Pakhtunkhwa. *Proceeding Pakistan Journal of Zoology*, 1-65. **(HEC Recognized)**
10. Raza Khan, Shabir Ahmed and **Muzafar Shah**. **2015**. Molecular Characterization of Balhesh sheep breed of Wana, South Waziristan Agency (FATA). *Proceeding Pakistan Journal of Zoology*, 1-65. **(HEC Recognized)**
11. Sajjad Hussain, Sardar Azhar Mehmood and **Muzafar Shah**. **2015**. Study of wasp fauna of Dir Lower District. *Proceeding Pakistan Journal of Zoology*, 1-65. **(HEC Recognized)**
12. Khalid Usman Khattak, Bakhtiar Muhammad, **Muzafar Shah**, Ahmad Jama, Mazhar Ali, Sundus Zahid, Nehafta Bibi, Sehrish Javid and Khalid Pervaiz. **2015**. Assessment of water quality parameters in river Kabul Khyber Pakhtunkhwa, Pakistan. *Proceeding Pakistan Journal of Zoology*. **(HEC Recognized)**
13. Zafar Iqbal, Khalid Usman Khattak, **Muzafar Shah**, Ahmad Jamal, Sundus Zahid, Nehafta Bibi, Sehrish Javid, Mazar Ali and Khalid Pervaiz. **2015**. Identification of fish fauna in river Swat at District Charsadda, KP, Pakistan. *Proceeding Pak. J. Zoology*. **(HEC Recognized)**
14. Nazakat Saleem, Zaigham Hassan, Khalid Usman Khattak, **Muzafar Shah**, Ahmad Jamal, Sundus Zahid, Nehafta Bibi, Sehrish Javid, Sehrish and Khalid Pervaiz. **2015**. Identification of fish fauna of Sarki lawagher Dam Karak KP, Pakistan. *Proceeding Pakistan Journal of Zoology*. **(HEC Recognized)**
15. Karimullah, Bakhtiar Muhammad, Nazir Ahmad, Khalid Usman Khattak, **Muzafar Shah**, Ahmad Jamal, Mazhar Ali, Sundus Zahid, Nehafta Bibi, Sehrish Javid and Khalid Pervaiz. **2015**. Analysis of Heavy Metals in River Swat KP, Pakistan. *Proceeding Pak. J. Zoology*. **(HEC Recognized)**
16. Gulshan Bibi, Zeshan Niaz, Khalid Usman Khattak, **Muzafar Shah**, Ahmad Jamal, Mazhar Ali, Sundus Zahid, Nehafta Bibi, Sehrish Javid and Khalid Pervaiz. **2015**. Antimicrobial activity of Ginger; *Zinbiber officinale* (Roscoe, 1807). *Proceeding Pakistan Journal of Zoology*. **(HEC Recognized)**
17. Sardar Azhar Mehmood, Mian Sayed Khan, Ahmed Zia, Muhammad Ather Rafi, **Muzafar Shah**, Shabir Ahmad and Sajid Mehmood, **2015**. Diversity of Dragonflies dwellers of the upper siren valley in Mansehra, *Proceeding Pak. J. Zoology*. **(HEC Recognized)**

### Conferences /Seminars/ Workshops Attended

1. Organized one-day International Seminar on “Amphibians & Reptiles” at Centre for Animal Sciences & Fisheries, University of Swat on September 19, 2019.
2. (Zoology 39<sup>th</sup> Pakistan Congress of Zoology (International) Organized by Department of Zoology, Islamia College University Peshawar & Zoological Society of Pakistan. March 4<sup>th</sup> to 6<sup>th</sup> 2019.
3. 38th Pakistan Congress of Zoology (International) Organized by Department of Zoology, University of the Punjab, Lahore. **February 27<sup>th</sup> to 1<sup>st</sup> March 2018**.
4. 2nd International Conference on innovative biological and public health research (IBPHR- 2017). Organized by Department of Zoology, GC University Lahore. **December 6-7<sup>th</sup>, 2017**.
5. One day Workshop on Biosafety and Biosecurity for Scientists. Organized by Center for Biotechnology & Microbiology, University of Swat, Swat. **November 14, 2017**.
6. Third International symposium on conservation issues of edible wild resources of Hindukush Himalayas of Pakistan. Organized by Islamia College University Peshawar. **July 22-24, 2017**.
7. 1<sup>st</sup> national conference on emerging trends in bioinformatics & biosciences. Organized by Department of bioinformatics, Hazara University Mansehra, Pakistan. **July 20-22, 2017**.
8. One day seminar on motivations and leadership. Organized by Center for Animal Sciences & Fisheries, University Swat. **April 27, 2017**.
9. Three days workshop on rule of law. Organize by Center for Research and Security Studies Islamabad. **March 10-12, 2017**.
10. 37<sup>th</sup> Zoological Congress of Pakistan, organized by Department of Zoology, GC University Faisalabad. **February 28-March 2, 2017**.
11. Three days symposium on weeds organized by Deptt of Agriculture SBB University Sheringal Dir Upper, **August 19-21, 2016**.
12. Three days symposium on weeds organized by Deptt of Agriculture SBB University Sheringal Dir

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- Upper, **August 19-21, 2016.**
13. Three days symposium on biodiversity of Swat, organized by Center for Biodiversity, University of Swat. **May 22-24 2016.**
  14. 36<sup>th</sup> Zoological Congress of Pakistan, organized by Department of Zoology, University of Sind. **February 16-18<sup>th</sup>, 2016.**
  15. 35<sup>th</sup> International Zoological Congress organized by The Zoological Society of Pakistan in Marine Sciences Department, University of Karachi. **March 1-4<sup>th</sup>, 2015.**
  16. 1<sup>st</sup> International Symposium on The Himalayas of Pakistan: Resources and Conservation Issues: Organized by Department of Genetics, Hazara University, Mansehra. **Nov. 27-30, 2014.**
  17. Two days intensive course “Epidemiological Research and Data analyses” for Research Scholar, Organized by Department of Zoology, Hazara University, Mansehra. **August 26-27, 2014.**
  18. One day Seminar on “Phylogenetic study of the Arthropods” Organized by Metropolitan Society of Historians, Richard Gilder Graduate School, American Museum of Natural History, Central Park at West 79<sup>th</sup> Street, 10024 NY, New York, USA. **March 10, 2014.**
  19. One day Seminar on “ Raising awareness and encouraging students for research on zoonotic and environmentally transmitted diseases and response” Organized by Relief International of Pakistan in Hazara University, Mansehra. **July 4<sup>th</sup>, 2013.**
  20. 2<sup>nd</sup> One day conference on “The Thyroid Gland: understanding basic and clinical aspects” Organized by Department of Zoology, Hazara University, Mansehra. **May 24<sup>th</sup>, 2013.**
  21. 33<sup>rd</sup> International Zoological Congress Organized by Pakistan National History Museum, Islamabad, Pakistan. **April 2-4<sup>th</sup>, 2013.**
  22. 32<sup>nd</sup> International Zoological Congress Organized by G.C University, Lahore, Pakistan. **March 6-8<sup>th</sup>, 2012.**
  23. DNA Bar-Coding: A promising tool for species identification and biodiversity digitization. Organized by NIBGE Faisalabad, Pakistan. **January, 30<sup>th</sup> 2012.**
  24. 31<sup>th</sup> International Zoological Congress Organized by University of AJK, Muzaffarabad, Pakistan. **April 19-21<sup>th</sup>, 2011.**
  25. Three day International Seminar “Basic techniques in Research, Dissertation and paper writing in Life Sciences” Organized by Department of Zoology Hazara University, Mansehra. **July 27-29<sup>th</sup>, 2010.**
  26. One day “National Seminar Enhancement of Natural Beauty through Conservation of Animals and Birds” Organized by Department of Zoology Hazara University, Mansehra, Pakistan. **June 4<sup>th</sup>, 2009.**
  27. 26<sup>th</sup> International Zoological Congress Organized by University of the Punjab, Pakistan. **April 3-7<sup>th</sup>, 2006.**
  28. Three day workshop on Diarrhea Disease in public health in District Buner, Pakistan. Organized by United Nation Organization (UNO), **1997.**