

Curriculum Vitae

Name : **Dr. Sajid Abdullah**
Associate Professor,
Department of Zoology, Wildlife
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Research Expertise: Aquatic Toxicology and Freshwater Fisheries



ACADEMIC QUALIFICATIONS:

DEGREE	YEAR	MARKS/CGPA	INSTITUTION
Ph.D. (Zoology)	2007	1 st	University of Agriculture Faisalabad
M.Phil. (Zoology)	2003	3.63/4.00	University of Agriculture Faisalabad
M.Sc. (Zoology)	2000	3.41/4.00	University of Agriculture Faisalabad

Name of Supervisor: **Prof. Dr. Muhammad Javed**

Name of Institution: **University of Agriculture, Faisalabad**

Ph.D. Thesis Title: Studies on acute toxicity of metals to the fish viz. *Catla catla*, *Labeo rohita* and *Cirrhina mrigala*.

M.Phil Thesis Title: Studies on the growth performance of major carps under integrated semi-intensive culture system.

M.Sc Thesis Title: Bio-accumulation of zinc and iron in *Catla catla* from river Ravi.

PUBLICATIONS:

Book Chapters

1. Jamil M, **S Abdullah**, W Mustfa, M Faran, F Talib, T Ashiq, M Sayedh & U Khursheed, 2024. Advances in Vertebrate Pest Management. In: Zoology: Advancements and Research Trends (Ijaz MU, N Ehsan, M Imran & S Yousaf, eds): FahumSci, Lahore, Pakistan, pp: 305-311. ISBN: 978-627-7745-02-8. <https://doi.org/10.61748/Zool.2024/38>
2. Jamil M, **S Abdullah**, R Azmat, Bushra, M Faran, N Kanwal, A Ghafoor & F Shafique, 2024. Fisheries economics: Balancing profitability with conservation goals. In: Zoology: Advancements and Research Trends (Ijaz MU, N Ehsan, M Imran & S Yousaf, eds): FahumSci, Lahore, Pakistan, pp: 179-186. ISBN: 978-627-7745-02-8. <https://doi.org/10.61748/Zool.2024/23>
3. Dureshahwar, **S Abdullah**, A Abbas, A Shehzadi, N Aslam, U Farwa, F Ansir & S Ashiq, 2024. Human induced toxicological impacts on aquatic life. In: Zoology: Advancements and Research Trends (Ijaz MU, N Ehsan, M Imran & S Yousaf, eds): FahumSci, Lahore, Pakistan, pp: 140-147. ISBN: 978-627-7745-02-8. <https://doi.org/10.61748/Zool.2024/18>
4. Jamil M, **Abdullah S**, Iqbal R, Abbas A, Talib F and Mustafa S, 2024. Moringa oleifera as plant protein source in fish meal. In: Abbas RZ, Khan AMA, Qamar W, Arshad J and Mehnaz S (eds), **Complementary and Alternative Medicine: Botanicals/Homeopathy/Herbal Medicine**. Unique Scientific Publishers, Faisalabad, Pakistan, pp: 163-170. <https://doi.org/10.47278/book.CAM/2024.243>
5. Jamil M, **Abdullah S**, Abbas A, Ihsan F, Talib F and Mustafa S, 2024. Ameliorative effect of dietary turmeric supplementation in fish. In: Khan A, Mohsin M, Khan AMA and Aziz S (eds), **Complementary and Alternative Medicine: Chinese/Traditional Medicine**. Unique Scientific Publishers, Faisalabad, Pakistan, pp: 180-186. <https://doi.org/10.47278/book.CAM/2024.151>
6. Mina Jamil, **Sajid Abdullah**, Fatima Talib, Rabia Bashir, Naila Ghafoor, Khadija Javed, Umm E Ummara and Ayesha Ghafoor. 2023. Vibrionaceae and Fish Zoonosis. In: Altaf S, Khan A and Abbas RZ (eds), Book: **Zoonosis**, Published by Unique Scientific Publishers, Faisalabad, Pakistan, ISBN: 978-969-2201-13-1. Vol 4: 468-480.
7. Sana Aziz and **Sajid Abdullah**. 2021. Toxicity of metal oxide nanoparticles in freshwater fish. Edited by Kaushik Pal and Tean Zaheer. Book: **Nanomaterials in the Battle against Pathogens and Disease Vectors**. Published by Boca Raton CRC Press, Taylor and Francis Group. ISBN: 9781003126256. 277-301 pp.
8. Sana Aziz and **Sajid Abdullah**. 2021. Common bacterial diseases of fish: prevention and control strategies. Edited by Dr. Rao Zahid Abbas and Dr. Ahrar Khan. **Book: Veterinary Pathobiology and Public Health**. Unique Scientific Publisher. ISBN: 978-969-2201-00-1. 352-366 pp.

Research Articles

1. Kaynat Saeed, **Sajid Abdullah**, Shakeela Parveen, Muhammad Shahbaz. Determination of Optimal Dietary Tryptophan Requirements for the Fingerlings of *Labeo rohita*, *Cirrhinus mrigala*, and *Catla catla* to Study Growth and Hematological Parameters under Stress. American Journal of Psychiatric Rehabilitation. 28(1): 807-820. <https://doi.org/10.69980/ajpr.v28i1.197>
2. Mina Jamil, **Sajid Abdullah**, Shakeela Parveen, Muhammad Kashif. 2025. Toxicity Assessment of Synthetic Polycyclic Musk: Survival, Oxidative Stress and Histopathology of Freshwater Fish *Labeo rohita*. American Journal of Psychiatric Rehabilitation. 28(1): 548-560. <https://doi.org/10.69980/ajpr.v28i1.138>

3. Muhammad Atif Ali, **Sajid Abdullah**, Khalid Abbas, Muhammad Anjum Zia. 2025. Impact of Benzophenone UV Filter on Oxidative Stress Biomarkers and Antioxidant Defense in *Labeo rohita*. American Journal of Psychiatric Rehabilitation. 28(1): 541-547. <https://doi.org/10.69980/ajpr.v28i1.137>
1. N. N. . Kanwal, **S. . Abdullah**, S. Hayat, S. . Abbas, M. . Saqlain, Z. . Wasif, J. . Wakeel, & M. . Luqman , Trans.. (2025). Immunological and Hematological Responses of *Labeo rohita* under Starvation. Journal of Agriculture and Biology, 3(1), 248-255. <https://doi.org/10.55627/agribiol.003.01.1202>
2. Amjad, H., Abbas, K., **Abdullah, S.**, & Zia, M. A. (2025). Loss of Genetic Polymorphism in Hatchery Produced *Cirrhinus mrigala* as Revealed by Microsatellite Loci Analyses. Pak. J. Zool., 57(2): 851-859. <https://dx.doi.org/10.17582/journal.pjz/20211012081005>
3. Riaz, M., **Abdullah, S.**, Jamil, M., Rasheed, A., Sheikh, U., Fatima, M., ... & Aslam, K. (2025). Evaluation of toxic effects of benzophenone on histopathology of *Labeo rohita*. *Toxicology Reports*, 12, Article 101914. <https://doi.org/10.1016/j.toxrep.2025.101914> (**Impact factor = 1.7**) ISSN: 2214-7500
4. Naveed, M., Mateen, A., & **Abdullah, S.** (2024). Assessment of Partially Replacement of Fishmeal with *Lactobacillus plantarum* Fermented Soybean Meal, Probiotics in the Diet of *Oreochromis niloticus* on the Growth Profile, Enzymatic Indices and Immunity. *Pakistan Journal of Agricultural Sciences*, 61(2).
5. Mustafa, S., Khan, H. A., **Abdullah, S.**, & Arshad, M. 2024. Comparative Effectiveness of Repellents for Rose-Ringed Parakeet and House Crow at University of Agriculture, Faisalabad, Pakistan. Pak.J. Zool., pp:1-9.
6. Kanwal N, S Aziz, **S Abdullah**, MS Ali and N Ahmad, 2024. Studies on the changes in antioxidant enzyme activity induced by parathion in *Hypophthalmichthys molitrix*. Continental Vet J, 4(1): 40-45.
7. Shakeela Manzoor, Sana Aziz, **Sajid Abdullah** and Muhammad Sarfraz Ali. 2024. Effect of nickel oxide nanoparticles on antioxidant enzyme system and hematology of *tilapia*. Pak.J. Zool., pp:1-4. (**Impact Factor= 0.687**)
8. Hina Amjad, Khalid Abbas, **Sajid Abdullah**, Muhammad Anjum Zia. 2023. Loss of Genetic Polymorphism in Hatchery Produced *Cirrhinus mrigala* as Revealed by Microsatellite Loci Analyses. Pak. J. Zool., pp:1-9. (**Impact Factor= 0.687**)
9. Sana Aziz, **Sajid Abdullah**. 2023. Evaluation of toxicity induced by engineered CuO Nanoparticles in fresh water fish, *Labeo rohita* Turkish J. Fish. Aquat. Sci. 23(8): (**Impact Factor =1.464**)
10. Sana Aziz, Nazia Ehsan, Fariha Latif, Muhammmad Sarfraz Ali, **Sajid Abdullah**. 2023. Comparison of biodiversity and abundance of earthworms in maize croplands irrigated with sewage and canal water of district Faisalabad, Pakistan. J. Bioras. Manag. 10(1): 156-164. (**Impact Score =**)
11. Amara Akhtar, **Sajid Abdullah**, Abdul Mateen, Muhammad Anjum Zia, 2023. Impact of different percentages of animal and plant-based dietary lipids on the weight gain, total length, fork length, and serum metabolites of *cirrhinus mrigala*. J. Xi'an Shiyu Univ. Nat. Sci. Ed. 3(66): 150-158. (**Impact Factor =0.38**)
12. Amara Akhtar, **Sajid Abdullah**, Arifa Mehreen, Muhammad Ahmed Saqib, Qurat-ul-ane Gillani, Muhammad Anwar Iqbal, Qurat-ul-ain Ahmad and Muhammad Tahir. 2022. Influence of Animal and Plant Source Dietary Lipids on The Growth Performance And Proximate Composition Of Major Carps. J.P.S.P., 6(12): 485-508. (**Impact Score =8.0**)
13. Huma Naz, **Sajid Abdullah**, Khalid Abbas, Laiba Shafique, Qingyou Liu and Peng Zhu. 2022. Comparative study: antioxidant enzymes, DNA damage and nuclear abnormalities in three fish species *cirrhina mrigala*, *catla catla* and *labeo rohita* exposed to insecticides mixture (endosulfan + chlorpyrifos + bifenthrin). Pak. J. Agri. Sci., 59(2):295-301. (**Impact Factor =0.856**)
14. Shanza Ahmed, Abdul Mateen, **Sajid Abdullah** and Muhammad Hamid Bashir. 2022. Efficacy of green synthesized silver Nanoparticles against *Tetranychus urticae* Koch (Acari: Tetranychidae). Pak. J. Agri. Sci., Vol. 59(4):635-642. (**Impact Factor= 0.856**)

15. Mamona Jabeen, Sumra Naz, Hina Amjad, Khalid Abbas, **Sajid Abdullah**, Muhammad Anjum Zia, Taqwa Safdar and Muhammad Sarfraz Ahmad. 2022. DNA markers based genetic polymorphism in natural populations of *Channa marulius*. Pak. J. Zool., pp:1-7. (**Impact Factor= 0.687**)
16. Ammara Akhtar and **Sajid Abdullah**. 2022. Studies on the Growth Performance and Feed Conversion Ratio of *Catlacatla* Fed with Different Levels of Animal and Plant based Dietary Lipids. Annals of R.S.C.B., 26(1) : 1841 – 1857. (**Impact Factor= 0.90**)
17. Muhammad Mudassar Shahzad, Iram Liaquat, Syed Makhdoom Hussain, Majid Hussain, Zawar Hussain, Asma Chaudhary, **Sajid Abdullah**, Syed Zakir Hussain Shah, Nisar Ahmad, Khalil Ahmad khan, Sana Bashir and Muhammad Tahir Rafique. 2022. Effects of dietary phytase (PHY) levels on nutrient digestibility, mineral absorption and growth performance of *Oreochromis niloticus* fingerlings fed Moringa based diets. Pak. J. Agri. Sci., Vol. 59(2):269-278. (**Impact Factor= 0.856**)
18. Sana Aziz, **Sajid Abdullah**, Fariha Latif and Hafeez Anwar. 2022. Evaluation of waterborne zinc oxide nanoparticles induced toxicity in bighead carp, *Hypophthalmichthys nobilis*. J. Anim. Plant Sci., 32(5):1299-1305. (**Impact Factor= 0.570**)
19. Sana Aziz, **Sajid Abdullah**, Hafeez Anwar and Fariha Latif. 2022. DNA Damage and Oxidative Stress in Economically Important Fish, Bighead Carp (*Hypophthalmichthys nobilis*) Exposed to Engineered Copper Oxide Nanoparticles. Pak. Vet. J., 42(1):1-8. (**Impact Factor= 1.803**)
20. Huma Naz, **Sajid Abdullah**, Tanveer Ahmed, Khalid Abbas, Muhammad Umer Ijaz, S. Kumar, M. A. Hassan and S. Q. A. Shah. 2022. Toxicity, oxidative stress and genotoxicity: lethal and sub-lethal effects of three different insecticides mixtures on *Cirrhina mrigala*. J. Anim. Plant Sci., 32(1):256-265. (**Impact Factor= 0.570**)
21. Amara Akhtar and **Sajid Abdullah**. 2021. Effect Of Animal And Plant Based Dietary Lipids On Growth (Weight Gain) And Serum Metabolites Of Labeo Rohita (Rohu). Webology (ISSN: 1735-188X) 18 (3): 925-935. (**Impact Factor= 1.565**)
22. Huma Naz, **Sajid Abdullah**, Tanveer Ahmed, Khalid Abbas, Muhammad Umar Ijaz, Muhammad Adeel Hassan and Muhammad Anjum Zia. 2021. Thermal stability of purified superoxide dismutase from liver of commercially valuable fish, *Labeo rohita* Exposed to Pb+Cr mixture. Pak. J. Agri. Sci., 58(4):1191-1196. (**Impact Factor= 0.856**)
23. Muhammad Yasin, Hammad Ahmad Khan, **Sajid Abdullah** and Mansoor Hameed. 2021. Impact of climate changes on the diurnal behaviour of some passerines in some selected habitats of central Punjab, Pakistan. Pak. J. Agri. Sci., 58(4):1177-1184. (**Impact Factor= 0.856**)
24. Sana Aziz, **Sajid Abdullah**, Hafeez Anwar, Fariha Latif, Warda Mustfa. 2021. Effect of engineered nickel oxide nanoparticles on antioxidant enzymes in freshwater fish, *Labeo rohita*. Pak. Vet. J., 41(3):424-428. (**Impact Factor= 1.803**)
25. Nuzhat Naseem, **Sajid Abdullah** and Sana Aziz. 2021. Effect of phytase supplemented diet on whole body proximate composition of *Labeo rohita* fingerlings. Pak. J. Zool., pp:1-4. (**Impact Factor= 0.687**)
26. Aliya Munir, **Sajid Abdullah**, Huma Naz, Khalid Abbas, Tanveer Ahmed and Zahid Farooq. 2021. Tissue-Specific Response of Peroxidase Activity in *Channa striata* under Acute Exposure of Pesticides (Deltamethrin + Endosulfan) Mixture. Punjab Univ. J. Zool., 36(2) 147-151. (**Impact Factor= 0.50**)
27. Moazama Batool, **Sajid Abdullah**, Huma Naz, Mubashar Hussain, Sadia Maalik,

- Sajida Mushtaq, Tanveer Ahmed and Laiba Shafique. 2021. Evaluation of Growth Performance and Bioaccumulation Pattern of Metals in Catfish Species, *Channa marulius* and *Wallago attu* under Cadmium and Chromium Toxicity. Punjab Univ. J. Zool., 36(2):125-130. (**Impact Factor= 0.50**)
28. Abeera Razzaq, **Sajid Abdullah**, Huma Naz, Khalid Abbas, Laiba Shafique and Qingyou Liu. 2021. Micronuclei Assay: A suitable tool for evaluating the heavy metal induced genotoxicity in Fish, *Labeo rohita* Pakistan J. Zool. pp:1-4. **Impact Factor (0.687)**
 29. Fatima Tufail, **Sajid Abdullah**, Huma Naz, Khalid Abbas, Tanveer Ahmed and Muhammad Umar Ijaz. 2020. Partial purification and kinetic characterization of renal catalase from carnivorous fish, *Channa striata* exposed to pesticides mixture Deltamethrin+Endosulfan. Pak. J. Agri. Sci., 56(5):1287-1291. (**Impact Factor= 0.748**)
 30. Sadia Kanwal, Khalid Abbas, Tanveer Ahmed, **Sajid Abdullah**, Huma Naz, Muhammad Anjum Zia and Zaheer Ahmed. 2020. Description of isolated bacterial pathogens from diseased *Cirrhinus mrigala*. Aquac. Res., 52(5): 2130-2137. **Impact factor (1.748)**.
 31. Qaisra Siddique, **Sajid Abdullah**, Huma Naz, Khalid Abbas and Laiba Shafique. 2020. Changes in glutathione S-Transferase activity and total protein contents of *Labeo rohita*. Punjab Univ. J. Zool., 35(1). 25-29. (**Impact Factor= 0.50**)
 32. Sana Aziz, **Sajid Abdullah**, Khalid Abbas and M. Anjum Zia. 2020. Effect of engineered zinc oxide nanoparticles on freshwater fish, *Labeo rohita*: Characterization of ZnO nanoparticles, Acute Toxicity and Oxidative Stress. Pak. Vet. J., 40(4):479-483. **Impact Factor (1.17)**.
 33. Tehreem Usman, **Sajid Abdullah**, Huma Naz, Khalid Abbas, Labia Shafique and Qaisra Siddique 2020. Acute toxic effect of technical grade insecticides on behavior, catalase activity and total protein contents of fish *Ctenopharyngodon idella*. Pakistan J. Zool. 52(5): 2023-2026. **Impact Factor (0.687)**
 34. Amina Malik, **Sajid Abdullah**, Huma Naz, Khalid Abbas, Tanveer Ahmed, Wardha Hassan and Qaisra Siddique. 2019. Total protein contents analysis in muscle of Indian Major Carps. Univ. Sindh J. Anim. Sci. 3(2): 1-4.
 35. Hamda Azmat, Muhammad Javed, and **Sajid Abdullah**. 2019. Effects of sub-lethal exposure of aluminium on growth and metal accumulation patterns in Indian major carps. J. Anim. Plant Sci., 29(6):1770-1774. **Impact Factor (0.481)**
 36. Rimsha Naz, Syed Shafat Hussain, Naunain Mehmood, **Sajid Abdullah**, Sana Malik, Iqra Munawar and Sadaf Dogar. 2019. Determination and impact of heavy metals in Common Mayna (*Acridothores tristis*) of District Faisalabad. J. Bio. Envi. Sci., 14 (6): 234-240.
 37. Huma Naz, **Sajid Abdullah**, Khalid Abbas, Muhammad Rizwan Tariq, Laiba Shafique and Ghazala Nazeer. 2019. Comet Assay: Quantification of Damaged DNA in *Catla catla* Exposed to Endosulfan+Chlorpyrifos. Punjab Univ. J. Zool. 34(1): 85-88.
 38. Fatima Tufail, **Sajid Abdullah**, Huma Naz, Khalid Abbas and Laiba Shafique. 2019. Purification and Kinetic Characterization of Hepatic Catalase from Carnivore Fish, *Channa striata* Exposed to Agrochemicals (Endosulfan+deltamethrin). Punjab Univ. J. Zool. 34(1):79-84.
 39. Huma Naz, **Sajid Abdullah**, Khalid Abbas, Wardha Hassan, Moazama Batool, Shakeela Parveen, Sadia Maalik and Sajida Mushtaq. 2019. Toxic effect of insecticides mixtures on antioxidant enzymes in different organs of fish *Labeo rohita*. Pakistan J. Zool. 51(4): 1355-1361. **Impact Factor (0.924)**
 40. Huma Naz, **Sajid Abdullah**, Khalid Abbas and Muhammad Anjum Zia. 2019. Thermodynamic characterization of kidney superoxide dismutase from *Labeo rohita*

exposed to the mixture of lead and chromium. Pakistan J. Zool. 51(3):1105-1112.
Impact Factor (0.924)

41. **Sajid Abdullah**, Abdul Mateen, Khalid Abbas, Huma Naz, Wardah Hassan and Saliha Anum. 2018. Changes in Glutathione S- Transferase activity in fish *Channa striata* exposed to different aquatic pollutants (heavy metals and pesticides mixture). Pakistan J. Zool. Suppl. Ser. (13). 42-47. **Impact Factor (0.776)**
42. Nadia Nazish, Khalid Abbas, **Sajid Abdullah** and Muhammad Anjum Zia. 2018. Microsatellite diversity and population structure of *Hypophthalmichthys molitrix* in hatchery populations of Punjab. Turkish J. Fish. and Aquat. Sci., 18(9):1113-1122. **(Impact factor = 1.46)**
43. Samreen Gull, **Sajid Abdullah**, Huma Naz and Khalid Abbas. 2018. Chromium Induced Elevated Glutathione S-transferase Activity in *Cirrhina mrigala*: Response of GST activity in fish. Proc. Pak. Acad. of Sci.: B. Life Environ. Sci., 55(4):49-54. **(Impact factor = 0.11)**
44. Moazama Batool, **Sajid Abdullah**, Muhammad Umer Ijaz, Safina Kousar, Mehroz Fatima, Rahila Ilyas, Faiza Ambreen and Komal Tayyab Mughal. 2018. Heavy metals (cadmium and lead) induced oxidative stress in *Channa marulius* and *Wallago attu* during acute toxicity experiments. Pakistan J. Zool. Suppl. Ser. (13). 74-79. **Impact Factor (0.776)**
45. Nida Ismat, **Sajid Abdullah**, Khalid Abbas, Abdul Mateen, Wardha Hassan, Huma Naz and Syeda Andleeb. 2018. Studies on the Activity of Digestive Enzymes in *Labeo rohita* Fingerlings Fed with Formulated Feeds. Pakistan J. Zool. Suppl. Ser. (13). 233-237. **Impact Factor (0.776)**
46. Anum Rafique, **Sajid Abdullah**, Khalid Abbas, Huma Naz and Wardha Hassan. 2018. Purification and Partial Characterization of Superoxide Dismutase from kidney of *Hypophthalmichthys molitrix* under Exposure of Metals Mixture. Pakistan J. Zool. 50(3): 831-836. **Impact Factor (0.776)**
47. Sana Rana, **Sajid Abdullah**, Huma Naz and Khalid Abbas. 2018. Characterization of Catalase from Carnivorous Fish, *Channa striata* Exposed to Binary Insecticide Mixture (Deltamethrin+Endodulfan). Pak J Agri. Sci., 31(4) : 368-374. **Impact Factor (0.618)**
48. Wardah Hassan, **Sajid Abdullah**, Muhammad Afzal and Mumtaz Hussain. 2018. Assessment of acute metals toxicity in *Catla catla* through hematological and biochemical blood markers. Pak. J. Agri. Sci., Vol. 55(2), 449-454. **Impact Factor (0.618)**
49. Hamda Azmat, Muhammad Javed, **Sajid Adbullah**, Arshad Javid and Syed Makhdoom Hussain. 2018. Growth response of major carps reared under chronic stress of chromium. J. Anim. Plant Sci., 28(2): 604-609. **Impact Factor (0.407)**
50. Yasmeen Batool, **Sajid Abdullah**, Huma Naz and Khalid Abbas. 2018. Sub-Lethal Effect of Waterborne Cadmium Exposure on Glutathione-S-Transferase and Total Protein Contents in Liver of Carnivorous Fish, *Wallago attu*. Pak. Acad. Sci. 55(2): 21-25.
51. Nadia Nazish,, Khalid Abbas, **Sajid Abdullah**, and Muhammad Anjum Zia. 2018. Microsatellite diversity and population structure of *Hypophthalmichthys molitrix* in hatchery populations of Punjab, Turkish Journal of Fisheries and Aquatic Sciences, 18, 1113-1122. **(Impact Factor= 0.553)**
52. Zeenat Bano, **Sajid Abdullah**, Waqas Ahmad, Muhammad Anjum Zia and Wardah Hassan. 2017. Assessment of Heavy Metals and Antioxidant Enzyme in Different Organs of Fish from Farm, Hatchery and Indus River of Pakistan. Pakistan J. Zool., 49(6), 2227-2233. **Impact Factor (0.632)**
53. Huma Naz, **Sajid Abdullah**, Khalid Abbas and Muhammad Anjum Zia. 2017. Pesticides mixture toxicity; effects on superoxide dismutase activity in Indian major carps. Pak. J. Agri. Sci., Vol. 54(3), 607-611 **Impact Factor (0.677)**

54. Naheed Bano, Muhammad Afzal, **Sajid Abdullah** and Muhammad Shahid 2017. The Potential Use of Citric Acid for the Improvement in Growth of *Labeo rohita*, Int. J. Agric. Biol., 19(2): 363-366. **Impact Factor (0.822)**
55. Anjum Zia M., Qurat-ul-Ain, **Abudullah S.**, Abbas Kh, Ahmed I. 2017. Sublethal impacts of heavy metals on antioxidant enzymes and biochemical parameters in rohu (*Labeo rohita*) Iran J. Fish. Sci., 16(2): 668-683. **Impact Factor (0.446)**
56. Tanveer Ahmed, **Sajid Abdullah**, Khalid Abbas and Muhammad Anjum Zia. 2016. Catalase enzyme response to chronic Pb+Cd metal mixture exposure, its purification and partial characterization from the kidney of freshwater fish, *Oreochromis niloticus*. Pakistan J. Zool., 48(6), 1733-1740. **Impact Factor (0.580)**
57. Tanveer Ahmed, **Sajid Abdullah**, Khalid Abbas, Muhammad Anjum Zia, Nadia Nazish, Syed Zakir Hussain Shah and Syed Muhammad Aun Naqvi. 2016. Purification and partial characterization of liver catalase from control and Pb+Cd metal mixture stressed *Oreochromis niloticus*. Pak. J. Agri. Sci., 53(2): 431-437. **Impact Factor (0.609)**
58. Mirfa Murtaza, **Sajid Abdullah**, Wardha Hassan, Khalid Abbas, Huma Naz and Muhammad Anjum Zia. 2016. Studies on amylase and lipase activity in fish fed with diet containing different feed ingredients. Punjab Univ. J. Zool., 31(2): 165-169.
59. Wardha, H, **S. Abdullah**, K. Abbas, M. Batool and S. Yaqub. 2015. The effect of sub-lethal level of dietary copper and cadmium on the growth performance and oxidative stress in *Cirrhina mrigala*. Pak. J. Agri. Sci., Vol. 52(3), 789-794 **Impact Factor (0.597)**
60. Sultana, F., K. Abbas, Z. Xiaoyun, **S. Abdullah**, I. Qadeer and Razi ul Hussain. 2015. Microsatellite markers reveal genetic degradation in hatchery stocks of *Labeo rohita*. Pak. J. Agri. Sci., 52(3), 775-781. **Impact Factor (0.597)**
61. Ahmad, T., S. M. A. Naqvi, **S. Abdullah**, K. Abbas, S. Z. H. Shah and M. A. Zia. 2015. Comparative proximate body composition of wild captured and farm cultured *Cirrhinus mrigala*. Pak. J. Agri. Sci., 52(1), 203-207. **Impact Factor (0.597)**
62. Gull-e-Faran, Muhammad Anjum Zia, Muhammad Shahid and **Sajid Abdullah**. 2015. Improved streptokinase production; UV irradiation of *Streptococcus equisimilis*. Professional Med. J. 22(5): 656-663.
63. Batool, M., **S. Abdullah** and K. Abbas. 2014. Antioxidant enzymes activity during acute toxicity of chromium and cadmium to *Channa marulius* and *Wallago attu*. Pak.J.Agr.Sci, 51(4): 1117-1123. **Impact Factor (1.25)**
64. Batool, M., **S. Abdullah** and M. Javed. 2014. Behavioral intoxication of *Channa marulius* and *Wallago attu* during acute exposure of Cadmium and Copper. Pak. j. life soc. Sci., 12(1): 7-15.
65. Ameer, F., M. Javed, S. Hayat and **S. Abdullah**. 2013. Growth responses of *catla catla* and *labeo rohita* under mixed exposure of dietary and water-borne heavy metals viz. Cu, Cd and Zn. J. Anim. Plant Sci., 23(5):1297-1304. **Impact Factor**
66. Nazish, N., M. Noureen, A. Mateen and **S. Abdullah**. 2012. Effect of feed supplementation in growth response of carps under the influence of ammonium nitrate. I.J.Vet.Sci., 1(1): 17-20.
67. Shafiq, A., **S. Abdullah**, M. Javed, S. Hayat and M. Batool. 2012. Effect of combined exposure of water-borne and dietary nickel on the growth performance of *Cirrhina mrigala*. J. Anim. Plant Sci., 22(2): 425-430. **Impact Factor**
68. Hussain, M., S.M. Hussain, M. Afzal, A. Javid, **S. Abdullah**, S.A. Raza and M. Iqbal. 2011. Effect of low level of mineral phosphorus and medium level of nitrogen on planktonic productivity and increase in fish production. J. Anim. Plant Sci., 21(4):642-645. **Impact Factor**
69. Hussain, S.M., M. Javed, M. Afzal, **S. Abdullah**, A. Javid, T. Javid. M. Hussain and S.A. Raza. 2011. Growth performance of metal mixture stressed *Catla catla* in semi intensive pond culture system. Int. J. Agric. Biol., 13(6): 996-1000. **Impact Factor**

70. **Abdullah, S.**, M. Javed, S. Yaqub and N.Ahmad. 2011. Metals bioaccumulation paterrens in major carps during acute toxicity tests. *Int. J. Agric. Biol.*, 13(5):756-760. **Impact Factor**
71. Hussain, S.M., M. Javed, S. Asghar, . Hussain, **S. Abdullah**, S.A. Raza and A. Javid. 2010. Studies on growth performance of metal mixture stressed *Cirrnina mrigala* in earthen ponds. *Pak.J.Agr.Sci*, 47(3): 263-270. **Impact Factor**
72. Rauf, A. M. Javed, M. Ubaidullah and **S. Abdullah**. 2009. Assesment of heavy metals in sediments of the river Ravi, Pakistan. *Int. J. Agric. Biol.*, 11(2): 197-200 **Impact Factor**
73. Naz, S. M. Javed, S. Hayat. **S. Abdullah**, M.Bilal and T. Shaukat. 2008. Long term effect of lead (Pb) toxicity on the growth performance, nitrogen conversion ratio and yield of major carps. *Pak.J.Agr.Sci.*, 45(3):53-58.
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84. **Abdullah, S.** and M. Javed and A. Iram. 2003. Bioaccumulation of iron in *Catla catla* from river Ravi. *I. J. P. Sci.*, 2 (1): 54-58.
85. Aima, I., M. Javed and **S. Abdullah**. 2003. Relationships between physico-chemistry of water and metals toxicity in river Ravi. *I. J. P. Sci.*, 2 (1): 5-9.
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Conference Proceedings/Abstracts

1. Syeda Dua Zainab Shirazi, **Sajid Abdullah**, Mina Jamil, Sana Aziz. 2023. Evaluation of toxic effects of dioxin on hematology and serum biochemistry of grass carp. 6th International Conference on Applied Zoology (ICAZ-2023), The Applied Zoological Society of Pakistan & Department of Zoology, Government College University, Faisalabad, December 18-19, 2023 (O-35/ICAZ-2023).
2. Nayab kanwal, **Sajid Abdullah**, Mina Jamil. 2023. Studies on the changes in antioxidant enzyme activity induced by parathion in *Hypophthalmichthys molitrix*. 6th International Conference on Applied Zoology (ICAZ-2023), The Applied Zoological Society of Pakistan & Department of Zoology, Government College University, Faisalabad, December 18-19, 2023 (O-36/ICAZ-2023).
3. Sana Aziz, **Sajid Abdullah**, Rahat Andleeb, Nisar Ahmad Bhatti, Sidra Abbas, Mina Jamil. 2023. Evaluation of the toxicity induced by waterborne copper oxide nanoparticles

- (CuO-NPs) in Silver carp. 6th International Conference on Applied Zoology (ICAZ-2023), The Applied Zoological Society of Pakistan & Department of Zoology, Government College University, Faisalabad, December 18-19, 2023 (O-57/ICAZ-2023).
4. Amna Abbas, **Sajid Abdullah**, Dureshahwar, Kaynat Saeed, Mina Jamil. 2023. Effect of Organophosphate Pesticide on Glutathione S-transferase activity of *Labeo rohita*. 6th International Conference on Applied Zoology (ICAZ-2023), The Applied Zoological Society of Pakistan & Department of Zoology, Government College University, Faisalabad, December 18-19, 2023 (O-33/ICAZ-2023).
 5. Rana Aafaq Ahmad, **Sajid Abdullah**, Kaynat Saeed. 2023. Effect of Induced Pyrethroid on the Blood Parameters of *Cyprinus carpio*. 6th International Conference on Applied Zoology (ICAZ-2023), The Applied Zoological Society of Pakistan & Department of Zoology, Government College University, Faisalabad, December 18-19, 2023 (P-02/ICAZ-2023).
 6. Dureshahwar, **Sajid Abdullah**, Shamir tayab hussain babar, and Muhammad Naveed. 2023. Toxicological Relevance of Diazinon (Organophosphate) on the Immune Competency of Major Carp. 6th International Conference on Applied Zoology (ICAZ-2023), The Applied Zoological Society of Pakistan & Department of Zoology, Government College University, Faisalabad, December 18-19, 2023 (P-22/ICAZ-2023).
 7. Sana Aziz, **Sajid Abdullah**, Fayyaz Rasool, Danish Riaz. 2023. Assessment of zinc oxide nanoparticles induced toxicity in *Oreochrome niloticus*. International Fisheries and Aquaculture Conference (IFAC-2023). Institute of Zoology, University of the Punjab, Lahore. February 8-9, 2023 (IFAC-2023-FHD-P06).
 8. Mina Jamil, **Sajid Abdullah**, Sana Aziz. 2023. Ecotoxicological impact of benzophenone-type uv filters as a sunscreen ingredient on *Labeo rohita*. International Fisheries and Aquaculture Conference (IFAC-2023). Institute of Zoology, University of the Punjab, Lahore. February 8-9, 2023 (IFAC-2023-FHD-P36).
 9. Rabia Ehsan, **Sajid Abdullah**, Sana Aziz, Mumaiza Mumraiz, Quratulain Sattar and Hafsa Ashfaq. 2023. Evaluation of oxidative stress caused by the acute exposure to antibiotics in rohu (*Labeo rohita*). International Fisheries and Aquaculture Conference (IFAC-2023). Institute of Zoology, University of the Punjab, Lahore. February 8-9, 2023 (IFAC-2023-FHD-P37).
 10. Amna Mahmood, Khalid Abbas, **Sajid Abdullah**, Tanveer Ahmed, Huma Naz, Shamsa Kanwal and Ammara Mahmood. 2022. Microsatellite marker-based population genetic structure of Mozambique Tilapia (*Oreochromis mossambicus*) in River Chenab, Pakistan. 5th International Conference on Applied Zoology (ICAZ-2022), The Applied Zoological Society of Pakistan & Khwaja Fareed University of Engineering and Information Technology, Raheem Yar Khan, Pakistan. October 17-18, 2022 (O-65/ICAZ-2022).
 11. Saddam Hussain, **Sajid Abdullah**, Kaynat Saeed, Mumaiza Mumraiz and Dureshahwar. 2022. Effects of Different Temperatures on the Body Composition of Common Carp (*Cyprinus carpio*). 5th International Conference on Applied Zoology (ICAZ-2022), The Applied Zoological Society of Pakistan & Khwaja Fareed University of Engineering and Information Technology, Raheem Yar Khan, Pakistan. October 17-18, 2022 (O-53/ICAZ-2022).
 12. Maryam Afzal, **Sajid Abdullah**, Kaynat Saeed, Mumaiza Mumraiz and Dureshahwar. 2022. Effect of Waterborne Cadmium on the Glutathione Dependent Antioxidant Activity of Nile tilapia. 5th International Conference on Applied Zoology (ICAZ-2022), The Applied Zoological Society of Pakistan & Khwaja Fareed University of Engineering and Information Technology, Raheem Yar Khan, Pakistan. October 17-18, 2022 (O-52/ICAZ-2022).
 13. Isham Zahra, **Sajid Abdullah**, Kaynat Saeed, Mumaiza Mumraiz and Dureshahwar. 2022. Effect of Different Levels of Commercial Probiotics on Growth and Survival of Fish Silver Carp (*Hypophthalmichthys Molitrix*) Under Salinity Stress. The Applied Zoological

Society of Pakistan & Khwaja Fareed University of Engineering and Information Technology, Raheem Yar Khan, Pakistan. October 17-18, 2022 (O-51/ICAZ-2022).

14. Rida Khalid, **Sajid Abdullah**, Dureshahwar, Mumaiza Mumraiz, and Kaynat Saeed. 2022. Effect of Dietary *Aloe vera* on Morphometric and Hematological Parameters of Nile Tilapia. The Applied Zoological Society of Pakistan & Khwaja Fareed University of Engineering and Information Technology, Raheem Yar Khan, Pakistan. October 17-18, 2022 (O-42/ICAZ-2022).
15. Asima Parveen, **Sajid Abdullah**, Dureshahwar, Kaynat Saeed and Mumaiza Mumraiz. 2022. Effect of Dietary Ginger Extract on Growth and Antioxidant Enzyme Activity of Common Carp. The Applied Zoological Society of Pakistan & Khwaja Fareed University of Engineering and Information Technology, Raheem Yar Khan, Pakistan. October 17-18, 2022 (O-41/ICAZ-2022).
16. Saba Aslam, **Sajid Abdullah** and Sana Aziz*. 2021. Oxidative stress in different size groups of *labeo rohita* exposed to chromium. 4th International Conference on Applied Zoology-2021, November 24th-25th, pp.33.
17. Sahar Saleem, **Sajid Abdullah** and Sana Aziz*, Fariha Latif. 2021. A Comparative Study on the Accumulation of Copper and Cadmium in different tissues (Gills, Liver, Kidney, Spleen and Muscle) of *Labeo rohita*. 4th International Conference on Applied Zoology-2021, November 24th-25th, pp.54.
18. Sidra Bano, **Sajid Abdullah**, Sana Aziz*, Dureshahwar, Mumaiz Mumraiz and Kaynat Saeed. 2021. Ecological impact of benzophenone type UV filter on the catalase and peroxidase activity in the Grass carp (*Ctenopharyngodon idella*). 4th International Conference on Applied Zoology-2021, November 24th-25th, pp.56.
19. Riaz, R., **S. Abdullah**, Sana Aziz, F. Latif. Hematological and behavioral study of common carp, *Cyprinus carpio* exposed to titanium nanoparticles. 1st International Conference Science, Technology, Engineering, Mathematics and Social Sciences 2021. STEMS034. March 30-31, pp. 53-54.
20. Masood, S., **S. Abdullah**, S. Aziz. Oxidative stress and behavioral responses of *Catla catla* exposed to titanium dioxide nanoparticles. 1st International Conference Science, Technology, Engineering, Mathematics and Social Sciences 2021. STEMS035. March 30-31, pp. 54-55.
21. Saleem, S., **S. Abdullah**, S. Aziz. Changes in catalase and peroxidase activity in fish common carp exposed to copper nanoparticles. 1st International Conference Science, Technology, Engineering, Mathematics and Social Sciences 2021. STEMS037. March 30-31, pp. 57-58.
22. Manzoor, S., N. Zahid, **S. Abdullah**, S. Aziz. Effect of waterborne nickel nanoparticles (Ni-NPs) on level of bioaccumulation and oxidative stress in tilapia. 1st International Conference Science, Technology, Engineering, Mathematics and Social Sciences 2021. STEMS039. March 30-31, pp. 59-60.
23. Dureshahwar, **S. Abdullah**, S. Aziz, M. Naveed and S. Shabbir. Effect of different dietary protein, lipid and carbohydrate levels on the growth performance and blood parameter of fish, *labeo rohita*. 1st International Conference Science, Technology, Engineering, Mathematics and Social Sciences 2021. STEMS043. March 30-31, pp. 63-64.
24. Saeed, K., **S. Abdullah**, S. Aziz, M. Naveed, Dureshahwar, M. Mumraiz and R. Naz. Studies on the growth and survival of tilapia fed with salt incorporated feeds. 1st International Conference Science, Technology, Engineering, Mathematics and Social Sciences 2021. STEMS093. March 30-31, pp. 118-119.
25. Waryam, N., **S. Abdullah**, S. Aziz and F. Latif. Patterns of Heavy Metal Accumulation in Different Organs of Bighead Carp (*Hypophthalmichthys nobilis*). 40th Pakistan Congress of Zoology, March 10-12, 2020. CBGP-159. pp. 103.
26. Aziz, S., S. Rafi, M. Sagheer, **S. Abdullah** and F. Latif. Integrated Management of *Trogoderma granarium* using Neem Leaf Extract, Diatomaceous Earth and

- Entomopathogenic Fungus. 40th Pakistan Congress of Zoology, March 10-12, 2020. PC-82. pp. 156.
27. Nosheen, **S. Abdullah**, S. Aziz and F. Latif. The Effect of Acute Exposure of Ni and Zn on the Behavioral Responses and Haematological Parameters of Bighead Carp. 40th Pakistan Congress of Zoology, March 10-12, 2020. CBGP-160. pp. 103.
 28. Zahid, T., **S. Abdullah**, S. Aziz and F. Latif. Heavy metals (Zn, Ni and Cu) pollution in Water, Planktons and Fish from Baloki headwork to Sidhnai barrage, River Ravi, Pakistan. 40th Pakistan Congress of Zoology, March 10-12, 2020. FEWFM-21. pp. 228.
 29. Mumraiz, M., **S. Abdullah**, S. Aziz and F. Latif . Heavy metals viz. Zn, Ni and Cu levels in sediments and water from Baloki Headworks to Sidhnai Barrage in the River Ravi, Pakistan. 40th Pakistan Congress of Zoology, March 10-12, 2020. CBGP-163. pp. 105.
 30. Amjad, M., N. Ehsan, **S. Abdullah**, S. Aziz and F. Latif. Diversity, abundance and niche overlap among earthworms of maize (*Zea mays*), rice (*Oryza sativa*) and millet (*Pennisetum glaucum*) crops of district Jhelum. 40th Pakistan Congress of Zoology, March 10-12, 2020. FEWFM-75. pp. 260-261.
 31. Moazama Batool, **Sajid Abdullah**, Qurra-tul-ain, Huma Naz, Sadia Maalik and Sajida Mushtaq. Purification and partial characterization of Superoxide dismutase (SOD) enzyme from chronic cadmium exposed carnivorous fish organs (*Channa marulius*). Abstract pp. / International Fisheries and Aquaculture Conference-2019. Organized by University of Veterinary and Animal Sciences, Lahore. 30th to 31st January 2019. **IFAC-2019-FHD-40**.
 32. Huma Naz, **Sajid Abdullah**, Khalid Abbas, Wardah Hassan, Shakeela Perveen, Moazama Batool and Irfan Baboo. Evaluation of antioxidant enzymes in different organs of three fish species *Catla catla*, *Cirrhina mrigala* and *Labeo rohita* under chronic exposure of insecticides mixture (Bifenthrine, Chlorpyrifos and Endosulfan). Abstract pp./ International Fisheries and Aquaculture Conference-2019. Organized by University of Veterinary and Animal Sciences, Lahore. 30th to 31st January 2019. **IFAC-2019-FHD-41**.
 33. Huma Naz, **Sajid Abdullah**, Khalid Abbas, Muhammad Anjum Zia, Moazama Batool, Irfan Baboo and Sadia Maalik. Kinetic and thermodynamic characterization of Superoxide dismutase from liver of *Labeo rohita* under stress of Pb+Cr mixture. Abstract pp./ International Fisheries and Aquaculture Conference-2019. Organized by University of Veterinary and Animal Sciences, Lahore. 30th to 31st January 2019. **IFAC-2019-FHD-42**.
 34. Huma Naz, **Sajid Abdullah**, Khalid Abbas, Wardah Hassan, Moazama Batool, Shakeela Perveen and Sajida Mushtaq. Responses of oxidative stress dynamics to bifenthrine, chlorpyrifos and endosulfan in three economically important fish species *Catla catla*, *Cirrhina mrigala* and *Labeo rohita*. Abstract pp./ International Fisheries and Aquaculture Conference-2019. Organized by University of Veterinary and Animal Sciences, Lahore. 30th to 31st January 2019. **IFAC-2019-FHD-39**.
 35. Uzma Nazir, **Sajid Abdullah**, Huma Naz, Khalid Abbas, Wardah Hassan and Moazama Batool. 2019. Assessment of nuclear abnormalities in peripheral erythrocytes of carnivorous fish, *Wallago attu* exposed to lead. Abstract pp. 39th PAKISTAN CONGRESS OF ZOOLOGY (International). Organized by Department Of Zoology, Islamia College University, Peshawar. March 4-6, 2019.
 36. Abeera Razzaq, **Sajid Abdullah**, Huma Naz, Khalid Abbas, Wardah Hassan and Moazama Batool. 2019. Micronuclei Assay: A suitable tool for evaluating the heavy metals (Cr+Co) induced genotoxicity in fish *Labeo rohita*. Abstract pp. 39th PAKISTAN CONGRESS OF ZOOLOGY (International). Organized by Department Of Zoology, Islamia College University, Peshawar. March 4-6, 2019.
 37. Moazama Batool, **Sajid Abdullah**, Sadia Maalik, Sajida Mushtaq, Mehroze Fatima and Huma Naz. 2018. Effect of chronic exposure of metals on the growth performance of *Channa marulius* and *Wallago attu*. 38th Congress of Zoology, 27 feb- 1st March, 2018.
 38. Mubashra Ikram, **Sajid Abdullah**, Huma Naz, Khalid Abbas, Wardah Hassan and Moazama Batool, Behavioral abnormalities in *Labeo rohita* under the acute exposure of organophosphate insecticide, chlorpyrifos. 38th Congress of Zoology. 27 feb- 1st March, 2018.

39. Muhammad Shahbaz, **Sajid Abdullah**, Huma Naz, Khalid Abbas, Wardah Hassan, Moazma Batool and Sana Mehmood. 2018. Effect of dietary vitamin E supplementation on catalase activity of grass carp (*Ctenopharyngodon idella*). 38th Congress of Zoology, 27 feb- 1st March, 2018.
40. Fatima Tufail, **Sajid Abdullah**, Huma Naz, Khalid Abbas, Wardah Hassan and Moazma Batool and Shakeela Perveen. Partial Purification and kinetic characterization of renal catalase from carnivore fish, *Channa striata* exposed to pesticides mixture, deltamethrin+endosulfan. 38th Congress of Zoology, 27 feb- 1st March, 2018.
41. Moazama Batool, **Sajid Abdullah**, Safina Kousar and Muhammad Umar Ijaz. Studies on the influence of heavy metals on SOD enzymes in the organs of fish *Channa marulius* and *Wallago attu*. Abstract pp.125. 6th International Fisheries Symposium and Expo-2107 “Invocative and Sustainable Aquaculture for Blue Revolution”. Organized by Faculty of Fisheries and Wild Life UVAS, at Falttis Hotel, Lahore. 08-09 February, 2017. **IFSE-2017-E-13**.
42. Moazama Batool, **Sajid Abdullah** and Muhammad Umar Ijaz. **CBGP-221**-Oxidative stress biomarkers in assessing cadmium and lead toxicity in the *Channa marulius* and *Wallago attu*. Abstract pp.145. 37th Pakistan Congress of Zoology (International). Organized by Department of Zoology, GC University Faisalabad, 28th February to 2nd March, 2017.
43. Moazama Battol and **Sajid Abdullah**. **OP-41**-Accumulation of heavy metals and anti-oxidant enzymes as biomarkers in *Channa marulius* and *Wallago attu*. Abstract pp.53. “1st International Conference on Advancements in Biotechnology” held at GC Women University Faisalabad and AKHUWAT-Faisalabad Institute of Research Science and Technology, Pakistan. Organized by GC Women University Faisalabad and AKHUWAT-Faisalabad Institute of Research Science and Technology. 30-31st March, 2016.
44. Moazama Batool, **Sajid Abdullah**, Sadia Maalik, Sajida Mushtaq and Wardah Hassan. Response of antioxidant enzymes of freshwater fish *Channa marulius* and *Wallago attu* to acute metal (Cr, Cu, Cd and Pb) exposures. Abstract pp.118-119. 35th Pakistan Congress of Zoology (International). Organized by Zoological society of Pakistan, held at Centre of Excellence in Marine Biology, University of Karachi. 1-4th March, 2015.
45. Warda Hassan, **Sajid Abdullah**, Khalid Abbas, Huma Naz and Moazama Batool. Acute toxicity of water borne nikel and manganese mixture to the fish *C. idella*. Abstract pp. 122. 35th Pakistan Congress of Zoology (International). Organized by Zoological society of Pakistan, held at Centre of Excellence in Marine Biology, University of Karachi. 1-4th March, 2015.
46. Huma Naz, **Sajid Abdullah**, Khalid Abbas, Warda Hassan and Moazama Batool. Studies on the toxic effects of iron, zinc, lead and nickel mixture to the fish *C. mrigala*. Abstract pp.121. 35th Pakistan Congress of Zoology (International). Organized by Zoological society of Pakistan, held at Centre of Excellence in Marine Biology, University of Karachi. 1-4th March, 2015.
47. Moazama Batool, **Sajid Abdullah** and Khalid Abbas. Acute Toxicity of cadmium chloride ($\text{CdCl}_2 \cdot \text{H}_2\text{O}$) on *Channa marulius* and *Wallago attu* and their behaviour responses. Abstract pp. 223-224. 33rd Pakistan Congress of Zoology (International). Organized by Zoological society of Pakistan, held at Pakistan Museum of Natural History, Islamabad. 2-4, April, 2013.
48. Moazama Batool, **Sajid Abdullah** and Sobia Nawaz. Studies on the activities of antioxidant enzymes in fish viz. *Labeo Rohita* and *Cirrhina Mrigala*. Abstract pp.71-72. 32nd Pakistan Congress of Zoology (International). Organized by Zoological society of Pakistan, held at Government College University, Lahore. 6-8 March, 2012.
49. **Sajid Abdullah**, Moazama Batool and Munizah Javaid. Studies on the digestive enzyme, Amylase in fish viz. *Channa marulius* and *Ctenopharyngodon idella* with different nutritional habits. Abstract pp.72. 32nd Pakistan Congress of Zoology (International). Organized by Zoological society of Pakistan, held at Government College University, Lahore. 6-8 March, 2012.

50. Moazama Batool, **Sajid Abdullah** and Muhammad Javed. Acute toxicity of zinc to *Catla catla* and *Cirrhina mrigala*. Abstract pp.141. 31st Pakistan Congress of Zoology (International). Organized by University of Azad Jammu & Kashmir, Muzaffarabad. 19-21st April, 2011.
51. Moazama Batool, Muhammad Javed, **Sajid Abdullah** and Sikander Hayat. **FEWFM-31-**Response of *Catla catla*, *Labeo rohita* and *Cirrhina mrigala* during sub-lethal chronic exposure of iron. Abstract pp.166. 30th Pakistan Congress of Zoology (International). Organized by Department of Zoology, University of Agriculture Faisalabad. 2-4th, March, 2010.
52. Moazama Batool, Muhammad Javed, **Sajid Abdullah** and Sikander Hayat. Studies on limnological parameters of semi-intensive iron stressed fish culture ponds. Abstract pp. 4th National Symposium on Fisheries. Organized by Department of Fisheries Punjab and Pakistan Fisheries Society. 18 -19th, March 2009.

Research Reports:

1. Javed, M. and **S. Abdullah**. 2003. Studies on growth and bio- energetics of fish under heavy metal toxicity. 1st Annual report of the project No. Env. (62) submitted to the PSF Islamabad.
2. Javed, M. and **S. Abdullah**. 2004. Studies on growth and bio- energetics of fish under heavy metal toxicity. 2nd Annual report of the project No. Env. (62) submitted to the PSF Islamabad.
3. Javed, M. and **S. Abdullah**. 2005. Studies on growth and bio- energetics of fish under heavy metal toxicity. Final report of the project No. Env. (62) submitted to the PSF Islamabad.
4. Javed, M. **S. Abdullah** and S. Yaqub. 2008. Studies on tissue-specific metal bio-accumulation patterns and differences in sensitivity of fish to water- borne and dietary metals. 1st Annual report of HEC project No. (803) R&D pp89.
5. Javed, M. **S. Abdullah** and S. Yaqub. 2009. Studies on tissue-specific metal bio-accumulation patterns and differences in sensitivity of fish to water- borne and dietary metals. 2nd Annual report of HEC project No. (803) R&D pp91.

Research Grants/Funds:

As PI/Co-PI	Project Title	Funds	Sponsoring Agency	Status
PI	Studies on acute and chronic toxicity of metals to fish Viz. <i>Channa marulius</i> and <i>Wallago attu</i> (2012-2013)	Rs. 54000	URF- UAF	Completed
Co-PI	Studies on tissue-specific metal bio-accumulation patterns and differences in sensitivity of fish to water- borne and dietary metals. (2009-2011)	3.668 million	HEC	Completed
Co-PI	Genetic characterization of major carps in natural and hatchery stock using molecular tools	0.5 million	NRPU-HEC	Completed
Co-PI	Molecular Marker assisted monitoring of major Carps fishery stocks throughout Punjab for genetic enhancement (2013-2016)	3.2725 million	HEC	Completed
Co-PI	Genetic screening of indigenous and Chinese carps for inbreeding, hybridization and introgression for improved broodstock management (2021-2024)	2.90 million	HEC	Completed

Co-PI	Development of functional feed for <i>Labeo rohita</i> and <i>Oreochromis niloticus</i> , (2021-2024)	4.451 million	NRPU-HEC	On-going 2021-2014
Co-PI	Prospects of Biofloc Technology for Tilapiaculture in Pakistan (2022-2025)	5.529 million	ALP	On-going 2022-2025

Responsibilities

- Tutor Molana Shabbir Usmani-2
- Associate Hall Warden Warden Office PARS

Postgraduate Students Produced

S. No.	Post Graduate Degree	As Supervisor		As Member	
		Completed	On-going	Completed	On-going
01	Ph.D	07	05	12	06
02	M.Phil	225	20	150	36
03	M.Sc	210	-	30	

Ph.D. Students

S.No.	Name of the Student	Year	Title of Thesis
01	Moazama Batool 2004-ag-483	2014	Studies on acute and chronic responses of <i>Channa marulius</i> and <i>Wallago attu</i> to metals and their mixture.
02	Wardah Hassan 2008-ag-494	2017	Assessment of DNA integrity, heamatology and serumbiochemistry in major carps under the influence of heavy metals
03	Huma Naz 2008-ag-493	2017	Evaluation of biochemical and molecular changes in major carps exposed to pesticides mixtures
04	Sana Aziz 2013-ag-1842	2021	Evaluation of toxicity induced by waterborne metal oxide nanoparticles in carps
05	Ammara Akhtar 2008-ag-507	2023	The effect of dietary lipids levels on the feed utilization growth performance, body composition and serum metabolites of major carp
06	Dure Shahwar 2014-ag-8239	On going	Ameliorative effects of carotenoids on growth and immunity of fish exposed to pesticides
07	Mumaiza Mumraiz 2017-ag-2933	On going	In vivo assessment of toxicity mediated by waterbornemicroplastics in major carps
08	Kaynat Saeed 2014-ag-1736	On going	Effect of different feed additives on the growth andhematology of major carps at various temperatures
09	Muhammad Atif 2002-ag-1309	On going	Assessment of oxidative stress and histopathological changes as Biomarker of UV-filter Induced Toxicity in Major Carps

10	Mina Jamil 2019-ag-2121	On going	Toxicological responses of <i>Labeo rohita</i> induced by polycyclic synthetic musk compounds
11	Amna Abbas 2017-ag-862	On going	Evaluation of Toxic Effect Mediated by Antibiotics in Major Carps
12	Minha Faran 2021-ag-1493	On going	

M.Phil. Students

S.No	Name of the Student	Year	Title of Thesis
1.	Aalia Tabsum 2009-ag-1101	2011	The effect of lead toxicity on antioxidant enzymes present in fish viz. <i>Catla catla</i> , <i>Labeo rohita</i> and <i>Cirrhina mrigala</i> .
2.	Sumaira Yasmeen 2006-ag-379	2011	Effect of induced chromium toxicity on antioxidant enzymes in fish, viz. <i>Catla catla</i> , <i>Labeo rohita</i> and <i>Cirrhina mrigala</i> .
3.	Zeenat Bano 2010-ag-27	2012	Studies on antioxidant enzymes in wild and farmed fish, <i>Cirrhinus mrigala</i> .
4.	Wardah Hassan 2008-ag-494	2012	The effect of sub-lethal level of dietary copper and cadmium on growth performance and oxidative stress in <i>Cirrhina mrigala</i> .
5.	Ayesha Shafique 2008-ag-435	2013	Studies on the antioxidant enzyme peroxidase in (Pb+Cr) stressed <i>Catla catla</i>
6.	Huma Naz 2008-ag-493	2013	Studies on the purification and characterization of superoxide dismutase in (Pb+Cr) exposed <i>Labeo rohita</i>
7.	Tanveer Ahmad 2011-ag-893	2013	Comparison of liver and kidney catalase (CAT) characterization in normal and (Pb+Cd) exposed <i>Oreochromis niloticus</i>
8.	Shama Naqvi 2012-ag-753	2014	Characterization of catalase from the liver of <i>Catla catla</i> exposed to sub-lethal concentration of copper.
9.	Saima Zahoor 2012-ag-798	2014	Comparison between cadmium stressed and unstressed liver catalase characterization in <i>Cirrhina mrigala</i> .
10.	Anum Rafique 2012-ag-805	2014	Isolation, purification and partial characterization of superoxide dismutase (SOD) from the kidney of Silver carp (<i>Hypophthalmichthys molitrix</i>)
11.	Ammara Akhtar 2008-ag-507	2015	Catalase characterization in metal mixture (Pb+Cr) exposed <i>Labeo rohita</i>
12.	Mirfa Murtaza 2013-ag-701	2015	Studies on lipase and amylase activity in the <i>Hypophthalmichthys molitrix</i> and <i>Catla catla</i> fed with diet containing different feed ingredients
13.	Anam Azam 2013-ag-700	2015	Studies on the lipase and amylase activity in the <i>Ctenopharyngodon idella</i> fed with diet containing different feed ingredients
14.	Tahira Saleem 2013-ag-945	2015	Amylase activity in <i>Catla catla</i> and <i>Cirrhinus mrigala</i> in response to different feed ingredients
15.	Abuzar Tabassum 2013-ag-825	2015	Growth responses of major carps as affected by different doses of probiotic
16.	Alia Mobeen 2013-ag-650	2015	Studies in the feed conversion ratio and specific growth rate of <i>Tilapia</i> as affected by different probiotics

17.	Amna Imtiaz 2013-ag-950	2015	Rohu (<i>Labeo rohita</i>) fish as a biomarker to study the glutathione S Transferase in different organs i.e., liver, kidney and muscles.
18.	Aneela Jabeen 2013-ag-919	2015	Studies on the lipase activity in liver and digestive tract of <i>Catla catla</i> fingerlings fed with different feed ingredients
19.	Farzana Kouser 2013-ag-1013	2015	Comparative study of Glutathione S-transferase (GST) activity in liver, gills and kidney of silver carp
20.	Iram Tabassum 2013-ag-6172	2015	Studies on the growth performance of <i>Cyprinus carpio</i> and <i>Cirrhina mrigala</i> as affected by different doses of probiotics
21.	Khadija Shahzadi 2013-ag-574	2015	The effect of aquatic pollutants on the <i>Catla catla</i> hepatic glutathione S-transferase
22.	MunazaAhsan 2013-ag-1785	2015	The effect of probiotics on the feed utilization and growth performance of <i>Ctenopharyngodon idella</i> and <i>Labeo rohita</i>
23.	M. Naveed Asghar Shah 2013-ag-1184	2015	Studies on the purification and characterization of glutathione S-transferase from <i>Catla catla</i> and <i>Labeo rohita</i>
24.	Nida Ismat 2013-ag-918	2015	Studies on the activities of digestive enzyme in <i>Labeo rohita</i> fingerlings fed with formulated feed
25.	Rabia Mukhtar 2013-ag-1017	2015	Studies on the growth coefficient and condition factor of <i>Cyprinus carpio</i> and <i>Hypophthalmichthys molitrix</i> fed with diet containing different levels of probiotic
26.	Rabia Hayat 2013-ag-1008	2015	Studies on the changes in glutathione-S-Transferase level in kidney and liver of grass carp
27.	Usama Ahsan 2013-ag-702	2015	The effect of different aquatic pollutants on the activity of Glutathione-S-Transferase in <i>Cirrhinus mrigala</i>
28.	Zafar Abbas 2013-ag-1022	2015	Effect of the probiotic on the growth performance of Chinese carps in intensive culture system
29.	MaidaTariq 2014-ag-2721	2016	Glutathione-S-transferase as a biochemical marker of aquatic pollution in <i>Wallago attu</i> sampled from three rivers
30.	Shazia Kousar 2014-ag-2722	2016	Studies on the thermodynamic characterization of glutathione S transferase in different organs of genetically improved farmed tilapia
31.	Riffat Nazeer 2014-ag-1175	2016	Comparison of catalase activity in major carps among three rivers
32.	Hafiza Saba Rani 2014-ag-9320	2016	Purification and characterization of catalase from different organs of genetically improved farmed tilapia
33.	Shagufta Rasheed 2014-ag-1187	2016	Isolation, purification and characterization of peroxidase enzyme in fish <i>Rita rita</i>
34.	Umbreen Iram 2014-ag-1174	2016	Comparison among three rivers for catalase activity in <i>Wallago attu</i>
35.	Sahar Iqbal 2012-ag-641	2017	Growth and immune response of silver carp fed with diet containing different probiotics
36.	Razia Perveen 2014-ag-2137	2016	Studies on biochemical changes in catalase enzyme in <i>Channa striata</i> captured from different natural sites
37.	Saira Safdar 2014-ag-1417	2016	The effect of food deprivation on the activity of peroxidase in different organs of <i>Labeo rohita</i>
38.	Naveeda Wahab 2014-ag-1609	2016	Evaluation of growth and immunological changes in grass carp fed by probiotics

39.	Kishwer Younas 2014-ag-636	2016	Studies on the changes in catalase activity in <i>Rita rita</i> sampled from rivers
40.	Madiha zia 2014-ag-1472	2016	Starvation related changes in catalase activity of fish (<i>Labeo rohita</i>)
41.	Zuhaa 2012-ag-985	2016	Probiotics as a growth promoter and immunostimulant in <i>Catla catla</i>
42.	Maria Khalid 2014-ag-8096	2016	Comparative study of glutathione-S-transferase effect fresh water <i>Rita rita</i>
43.	Sundos Khalid 2014-ag-2889	2016	Starvation induced alteration in Glutathione-S-transferase activity in Rohu (<i>Labeo rohita</i>)
44.	Saliha Anum 2014-ag-1774	2016	Changes in antioxidant enzyme (Glutathione-S-Transferase) activity in fish, <i>Channa striata</i> exposed to different aquatic pollutants
45.	Khadija Nawaz 2014-ag-9323	2016	Glutathione S-transeferase as a biomarker of oxidative stress in fish Masheer (<i>Tor macrolepis</i>)
46.	Anam Habib 2014-ag-9322	2016	The effect of aquatic pollutants on the activity of catalase in fish Masheer (<i>Tor macrolepis</i>)
47.	Syeda Amna Batool 2014-ag-792	2016	Immunological response of grass carp to fasting conditions
48.	Shabana Kousar 2014-ag-1682	2016	Behavioral and hematological changes in tilapia induce by starvation
49.	Atiya Latif 2007-ag-550	2016	Behavioral and immunological changes in <i>Cirrhinus mrigala</i> under starvation
50.	Kiran Hafeez 2012-ag-998	2016	Effect of probiotics on the growth and immunological parameters of <i>Cirrhinus mrigala</i>
51.	Bushra Rehman 2014-ag-8307	2016	Comparative study on the catalase enzyme in the hepatocytes of <i>Cyprinus carpio</i>
52.	Ayesha Mubeen Gull 2014-ag-8546	2016	Immune response in common carp (<i>Cyprinus Carpio</i>) fed with diet containing different probiotics
53.	Naila Noreen Kanwal 2014-ag-677	2016	Immunological response of <i>Labeo rohita</i> under fasting conditions
54.	Nazish Gul 2014-ag-2646	2016	Response of <i>Catla catla</i> immune system under starvation condition
55.	Khadija Yousaf 2012-ag-1301	2016	The effect of dietary probiotics on growth performance and hematological parameters of <i>Labeo rohita</i>
56.	Manzoor Hussain 2014-ag-1946	2016	The effect of dietary vitamin E on growth performance and antioxidant enzyme activity of <i>Cirrhinus mrigala</i>
57.	Saim Iqbal 2014-ag-565	2016	Biochemical changes in liver of <i>Catla catla</i> during fasting stress
58.	Abdul Rasheed 2014-ag-9327	2017	Assessing the Glutathione-S-tranferase activity in hepatic tissue of major carps captured from river Sutluj.
59.	Mahboob Ali 2014-ag-2774	2017	Partial characterization of GST isolated from hepatocyte of <i>Cyprinus carpio</i> .
60.	Aqsa Chaudry 2014-ag-2644	2017	Studies on the changes in Glutathione-S-tranferase in different organs of <i>Catla catla</i> after fasting stress.
61.	Maryam Tariq 2011-ag-1052	2017	Toxic effect of chlorpyrifos on catalase activity in cardiac, hepatic and renal tissues of <i>Labeo rohita</i>
62.	Nida Aslam 2012-ag-964	2017	Evaluation of growth and hematology of major carps fed probiotics

63.	Tahreem Usman 2013-ag-656	2017	Behavioral and biochemical changes induced in <i>Ctenopharyngodon idella</i> exposed to binary mixtures of pesticides (Endosulfan, Bifenthrin and Chlorpyrifos)
64.	Qaisra Siddique 2013-ag-1851	2017	Studies on the changes in Glutathione S-transferase activity of <i>Labeo rohita</i> exposed to organophosphate pesticide
65.	Aisha Shabbir 2013-ag-6838	2017	Studies on the haematological parameters of fish, <i>Labeo rohita</i> exposed to chlorpyrifos
66.	Naila Naeem 2015-ag-321	2017	The effect of acute and chronic exposure of pesticides (Chlorpyrifos and Bifenthrin) on fish behaviour and catalase activity
67.	Mariam Rasheed 2015-ag-331	2017	Chlorpyrifos and Bifenthrin effect on the hematological parameters of <i>Ctenopharyngodon idella</i>
68.	Aafia Sial 2015-ag-623	2017	Haematological parameters as an indicator of bifenthrin+chlorpyrifos toxicity in freshwater fish, tilapia (<i>Oreochromis niloticus</i>)
69.	Shaza Mehboob 2015-ag-651	2017	Assessment of oxidative stress and genotoxic effect of pesticides mixture to freshwater fish, <i>Ctenopharyngodon idella</i>
70.	Aqsa Mehbob 2015-ag-652	2017	Assessment of hematological and genotoxic effects of pesticides mixture in peripheral erythrocytes of grass carp
71.	Faiza Muzaffar 2015-ag-682	2017	Changes in superoxide dismutase activity in <i>Ctenopharyngodon idella</i> exposed to pesticide mixture (chlorpyrifos+bifenthrin)
72.	Sana Mehmood 2015-ag-694	2017	The effect of pesticides mixture on hematological parameters of grass carp
73.	Meher-un-Nissa 2015-ag-753	2017	Bifenthrin+Chlorpyrifos mixture effect on glutathione-S-transferase activity in various organs of fresh water fish, <i>Ctenopharyngodon idella</i>
74.	Muhammad Salman Khan 2015-ag-865	2017	Tissue-specific antioxidant response (GST) of <i>Cirrhina mrigala</i> to endosulfan
75.	Hafiz Rifaqat Hussain Haider 2015-ag-880	2017	Studies on the peroxidase activity in liver, gills and kidney of <i>Cirrhina mrigala</i> exposed to endosulfan
76.	Mehwish Tanveer 2015-ag-1745	2017	Biochemical and behavioural changes induced by endosulfan in <i>Cirrhinus mrigala</i>
77.	Saima Irshad 2015-ag-2990	2017	Effect of acute and chronic exposure of lead on haematological parameters of <i>Cirrhina mrigala</i>
78.	Syeda Rubab Zahra 2015-ag-678	2017	Toxic effect of chlorpyrifos on gill, liver, kidney and muscle of <i>Labeo rohita</i> .
79.	Simab Sundas 2015-ag-755	2017	Studies on peroxidase activity of <i>Oreochromis niloticus</i> exposed to pesticides mixture
80.	Noshaba Shafi 2015-ag-1348	2018	Studies on the hematological parameters of <i>Cirrhina mrigala</i> exposed to endosulfan pesticide
81.	Muhammad Farhan 2012-ag-995	2018	The effect of different dietary vitamin c and e level on growth performance and hematological parameter of mori (<i>Cirrhinus mrigala</i>)
82.	Wajiha Adrsh Manzoor 2013-ag-1498	2018	Effects of different feeding rates on the growth and body composition of <i>Labeo rohita</i> , <i>Catla catla</i> and <i>Cirrhinus mrigala</i> .

83.	Sunaina Abbas 2014-ag-1571	2018	The effect of temperature and dietary salt on growth performance and feed intake of Nile tilapia
84.	Aqsa Aslam 2014-ag-1634	2018	Study the effect of different stocking densities on growth performance and profitability of Nile tilapia fry (<i>Oreochromis niloticus</i>) fry in semi-intensive fish culture
85.	Kaynat Saeed 2014-ag-1736	2018	Studies on the growth and survival of tilapia fed with salt incorporated feeds
86.	Fazeela Naheed 2014-ag-2561	2018	Comparative study of dietary protein, lipid and carbohydrate ratio on feed efficiency and body growth of fish, <i>Catla catla</i> and <i>Hypophthalmichthys molitrix</i> .
87.	Sana Hussain 2014-ag-2813	2018	Studies on the optimum feeding rate of juvenile <i>Catla catla</i> reared in semi-intensive culture system.
88.	Dure Shahwar 2014-ag-8239	2018	Effect of different dietary protein, lipid and carbohydrate levels on the growth performance and blood parameter of fish, <i>Labeo rohita</i> .
89.	Muhammad Shahbaz 2014-ag-9148	2018	Effect of temperature and feeding frequency on growth and body composition of silver carp
90.	Tahreem Tariq 2014-ag-9272	2018	The Effects of Dietary Salts Supplementation on the Growth, Survival and Feed Utilization of Common Carp (<i>Cyprinus carpio</i>)
91.	Muhammad Sarfraz Ali 2013-ag-1523	2019	The Status of Major Carps in the River Ravi from the Baloki Headworks to Sidhnai Barrage, Pakistan
92.	Kiran Arooj 2015-ag-620	2019	The sublethal effect of Nickel and Zinc on growth performance of Bighead carp (<i>Hypophthalmichthys nobilis</i>) fingerlings
93.	Nosheen 2015-ag-1413	2019	The effect of acute exposure of Ni and Zn on behavioural responses and hematological parameters of Big head carp
94.	Noureen Waryam 2015-ag-2510	2019	Patterns of heavy metals accumulation in different body organs (Muscles, gills, liver and kidney) of Big head Carp (<i>Hypophthalmichthys nobilis</i>) after acute exposure
95.	Rabia Gulzar 2015-ag-2616	2019	The growth performance of Bighead carp exposed to sub lethal levels of Zinc and Iron
96.	Tayyaba Zahid 2017-ag-2932	2019	Heavy Metals viz. Zn, Ni and Cu pollution in Water, Planktons and Fish from Baloki Headwork to Sidhnai Barrage, River Ravi, Pakistan.
97.	Mumaiza Mumraiz 2017-ag-2933	2019	Heavy Metals viz. Ni, Cu, Zn levels in the sediments and water from Baloki headworks to Sidhnai Barrage, River Ravi, Pakistan
98.	Shakeela Manzoor 2016-ag-1277	2020	Bioaccumulation patterns of Tilapia exposed to nickel nanoparticles
99.	Nuzhat Naseem 2016-ag-1289	2020	Hematological Changes and Serum Biochemistry of <i>Cyprinus carpio</i> exposed to Graphene Nanoparticles
100.	Ayesha Khalid 2016-ag-1290	2020	Hematological studies of <i>Cyprinus carpio</i> exposed to different metals (copper and zinc) nanoparticles.
101.	Rabia Riaz	2020	Hematological and behavioral study of Common Carp, <i>Cyprinus carpio</i> after the exposure of Titanium nanoparticles.
102.	2016-ag-3717		

103.	Sadaf Maqsood 2016-ag-2912	2020	Oxidative stress and behavioral responses of <i>Catla catla</i> exposed to titanium dioxide nanoparticles
104.	Numan Zahid 2016-ag-2711	2020	Toxicity mechanism of nickel nanoparticles in <i>Cirrhinus mrigala</i>
105.	Kanwal Shahzadi 2016-ag-434	2020	Effect of Lead, Copper and their mixture on Hematological Parameters and Serum Biochemistry of Bighead Carp.
106.	Shazma Majid 2016-ag-1120	2020	Effects of Titanium nanoparticles on the Growth and Hematology of fish, <i>Catla catla</i> .
107.	Aqsa Mubeen Shoukat 2016-ag-4771	2020	Toxicological effects of titanium nanoparticles in <i>Cyprinus carpio</i> .
108.	Sahar Saleem	2020	Changes in catalase and peroxidase activity in fish, Common carp exposed to copper nanoparticles
109.	Sammia Aslam 2016-ag-1604	2020	Bioaccumulation pattern of bighead carp after exposure of copper nanoparticles
110.	Naeem Abbas 2019-ag-2176	2021	The acute effect of iron oxide nanoparticles on antioxidant enzymes of <i>Labeo rohita</i>
111.	Muhammad Tahir 2016-ag-5596	2021	Acute effect of titanium dioxide nanoparticles on <i>Labeo rohita</i>
112.	Sheikh Ali Abbas 2017-ag-820	2021	Effects of copper nanoparticles on bioaccumulation pattern and its effects on antioxidant enzyme activity in Tilapia
113.	Shehroz Ali 2017- ag-819	2021	Effect of nanoscale copper on hematology and serum biochemistry of tilapia
114.	Kalim ullah junaid 2019-ag-2165	2021	The acute effect of iron oxide nanoparticles on the hematology of fresh water fish, <i>Labeo rohita</i>
115.	Mariam Akbar 2017-ag-882	2021	Effect of silver nanoparticles on the antioxidant enzyme activity of vegetarian fish.
116.	Saman Zulfiqar 2019-ag-2153	2021	Effect of cobalt and zinc on the growth performance of vegetarian fish, Grass carp (<i>Ctenopharyngedon idella</i>)
117.	Rafia Riaz 2017-ag-3833	2021	Studies on bioaccumulation pattern and behavior of <i>Catla catla</i> exposed to cadmium in mthe onoculture production system
118.	Maria Shahzad 209-ag-2152	2021	Effect of chromium on anti-oxidative and immunological status of <i>Cirrhinus mrigala</i>
119.	Nimra Naveed 2019-ag-2164	2021	Hepatotoxicity of coper in <i>Cirrhinus mrigala</i> through FTIR study.
120.	Faisal Amin 2019- ag-2141	2021	Evaluation of zinc and copper concentration in water and tissue of <i>Cyprinus carpio</i>
121.	Sabiha Akam 2017- ag-732	2021	The effect acute exposure of chromium on bioaccumulation pattern of bighead carp.
122.	Shaheena bibi 2017-ag-765	2021	Effects of copper sulfate on hematological parameters of tilapia.
123.	Kainat Ashraf 2019-ag-2133	2021	Effect of lead on antioxidant enzymes of common carp.
124.	Iram kalsoom 2017-ag-4796	2021	Effect of UV filter Benzophenone on the antioxidant enzymes of common carp
125.	Sidra Bano 2017- ag-864	2021	Ecological impact of benzophenone type UV filter on the catalase and peroxidase activity in grass carp (<i>Ctenopharyngodon idella</i>)
126.	Mina Jamil 2019- ag-2121	2021	Ecotoxicological impact of Benzophenone -Type UV filters as sunscreen ingredient, on <i>Labeo rohita</i>

127.	Tayyaba Wazir 2019-ag-2132	2021	Study of hematological profile and serum biochemistry of <i>Catla catla</i> through water-borne cadmium in monoculture system
128.	Tehreem Fatima 2019-ag-2122	2021	Bioaccumulation patterns in organs of <i>Catla catla</i> exposed to chronic exposure of heavy metals
129.	Amna Abbas 2017- ag-862	2021	Tissue specific antioxidant of <i>Cirrhinus mrigala</i> exposed to lead chloride.
130.	Saba Aslam 2019-ag-2106	2021	Oxidative stress in different size groups of <i>Labeo rohita</i> exposed to chromium.
131.	Umar Farooq 2019- ag-2105	2021	Effect of cadmium on the glutathione-dependant antioxidant system of grass carp.
132.	Muhammad Arif 2019-ag-2178	2021	Effect of different sub-lethal concentrations of iron on peroxidase and catalase activity of freshwater fish <i>Labeo rohita</i>
133.	Kashmala Razzaq 2019-ag-2145	2021	Comparative bioaccumulation pattern of Lead (Pb) in the <i>Ctenopharyngodon idella</i> and <i>Hypothalamicthys nobilis</i>
134.	Rabia Iqbal 2019- ag-2125	2021	Chronic effects of waterborne copper (Cu) and cadmium (Cd) antioxidant enzymes of <i>Labeo rohita</i>
135.	Muhammad Arshad 2018-ag-989	2022	Effects of antibiotics on antioxidant enzymes activity in common carp (<i>Cyprinus carpio</i>).
136.	Saddam Hussain 2020-ag-1118	2022	Effect of different temperatures on body composition of common carp (<i>Cyprinus carpio</i>)
137.	Saba Shahzadi 2020-ag-1100	2022	Response of Major Carps immune system under different doses of probiotics
138.	Maryam Afzal 2017-ag-891	2022	Effect of waterborne cadmium on the glutathione dependent antioxidant activity of Nile Tilapia.
139.	Rabia 2018-ag-1106	2022	Evaluation of oxidative stress caused by the acute exposure to antibiotics in rohu (<i>Labeo rohita</i>).
140.	Gul E Adan 2020-ag-1023	2022	Effects of ciprofloxacin and sulfamethazine on the activity of antioxidant enzymes of Mori (<i>Cirrhinus mrigala</i>).
141.	Sana Khalid 2020- ag-1117	2022	Beneficial effects of turmeric during fipronil toxicity on blood parameters of common carp.
142.	Asima Perveen 2018-ag-1011	2022	Effect of dietary ginger extract on growth and antioxidant enzyme activity of common carp.
143.	Syeda Nida Zainab 2018-ag-1022	2022	Effects of different dietary vitamins on growth performance of grass carp (<i>Ctenopharyngodon idella</i>).
144.	Farva Ihsan 2016-ag-1517	2022	Hematological changes and serum biochemistry of Mori (<i>Cirrhinus mrigala</i>) exposed to Zinc Chloride.
145.	Saeed Akhtar 2020- ag-1024	2022	Effects of sulfamethoxazole on hematological parameters of Indian Major Carp, Rohu (<i>Labeo rohita</i>).
147.	Rida Khalid 2020- ag-1125	2022	Effect of dietary Aloe vera extract on morphometric and hematological parameters of Nile Tilapia.
148.	Munazza Hashim 2018-ag-1139	2022	Effect of different concentrations of fipronil on hematological indices of mori (<i>Cirrhinus mrigala</i>).
149.	Isham Zahra 2018- ag-991	2022	Effect of different levels of commercial probiotics on the growth and survival of fish, silver carp (<i>Hypophthalmichthys molitrix</i>) under salinity stress.

150.	Hifsa Iqbal 2020-ag-1088	2022	Effect of cypermethrin on the antioxidant enzyme activity of rohu.
151.	Ayesha Nazir 2020-ag-1115	2022	Effects of iron and lead on antioxidant enzymes activity of silver carp (<i>Hypophthalmichthys molitrix</i>).
152.	Nimra Asif 2021-ag-1420	2023	Effects of dietary <i>Nigella sativa</i> on the growth and antioxidant status of Nile Tilapia
153.	Shantal Rafique 2021-ag-1404	2023	Histopathological study of antibiotics i.e. erythromycin and oxytetracycline on the freshwater fish <i>Labeo rohita</i>
154.	Alia Akram 2021-ag-1415	2023	The effect of hexachlorocyclohexane (HCH) on the hepatic activity of <i>hypophthalmichthys molitrix</i>
155.	Sana Siddique 2021-ag-1414	2023	Beneficial effects of dietary Parsley extract in <i>Oreochromis niloticus</i> exposed to ciprofloxacin toxicity
156.	Jameela 2021-ag-1392	2023	Immunomodulatory and biochemical changes induced by Paraquat in <i>Cirrhinus mrigala</i>
157.	Fariha Ashraf 2021-ag-1436	2023	Studies on the sub-lethal exposure of camphor on the oxidative stress in <i>Labeo rohita</i>
158.	Aiman Wazeer 2021-ag-1401	2023	Effect of sulphamethoxazole on the growth and hematology of Nile Tilapia.
159.	Shammer Tayyab Hussain babar 2021-ag-1589	2023	Effect of organophosphate pesticide on immune response of <i>Labeo rohita</i>
160.	Rana Afaq Ahmad 2021-ag-1538	2023	Effect of induced pyrethroid on the blood parameters of <i>Cyprinus carpio</i>
161.	Muhammad Irfan 2021-ag-1474	2023	Growth performance of Nile tilapia by using probiotics as feed additive
162.	Junaid Iqbal 2021-ag-1475	2023	Effect of <i>Lactobacillus acidophilus</i> on the growth and survival rate of <i>Cirrhinus mrigala</i> fingerlings
163.	M. Zohaib Zulfiqar 2021-ag-1544	2023	Toxicological effects of Melathion in <i>Labeo rohita</i>
164.	Fareeha Ihsan 2021-ag-1491	2023	Changes in Catalase and Superoxide-dismutase activity in <i>Cirrhinus mrigala</i> exposed to Trimethoprim.
165.	Nayab Kanwal 2018-ag-1249	2023	Studies on the changes in antioxidant enzyme activity induced by parathion in <i>hypophthalmichthys molitrix</i>
166.	Shaheen Kausar 2021-ag-1574	2023	Oral administration of commercial probiotics on hematological parameters of <i>Labeo rohita</i>
167.	Aown M. Haidery 2021-ag-1573	2023	Thermal tolerance and dissolved oxygen utilization of Chinese carps at variable water temperatures
168.	Laila Rubab 2018-ag-941	2023	Studies on the <i>Lactobacillus subtilis</i> and <i>Lactobacillus plantrum</i> to increase the amylase activity of silver carp
169.	Amara Malik 2021-ag-1490	2023	Ecotoxicity of the phthalates in <i>Cirrhinus mrigala</i> ; oxidative stress assessment
170.	Syeda Dua Zainab 2018-ag-983	2023	Evaluation of toxic effects of dioxine on hematology and serum biochemistry of grass carp
171.	Sana Arshad 2021-ag-1548	2023	Dose and time-dependent pathological and toxicological studies of xylene in freshwater fish, <i>Labeo rohita</i>
172.	Minha Faran 2021-ag-1493		Studies on the antioxidative enzymatic biomarkers in common carp exposed to Bisphenol-A
173.	Amina Qazi 2021-ag-1554	2023	Changes in superoxide-dismutase and glutathione-s-transferase activity in <i>Ctenopharyngodon idella</i> exposed to sulphadiazine
174.	Tahreem Nisar 2021-ag-1482	2023	Effects of different levels of aloe vera extract on growth and survival of Mori (<i>Cirrhinus mrigala</i>)

175	Natasha Zahid 2021-ag-1558	2024	Changes in catalase and superoxide dismutase activity in <i>Cirrhinus mrigala</i> exposed to camphor
176	Muhammad Ismail 2022-ag-1494	2024	The effect of chronic exposure of cadmium and zinc on hematological parameters of <i>Cirrhinus mrigala</i>
177	Maham Riaz 2022-ag-1519	2024	Evaluation of toxic effects of benzophenone on histopathology of Major Carps
178	Zainab Rizwan 2022-ag-1521	2024	Beneficial role of caraway seed in growth performance and antioxidant status of Common Carp
179	Zunaira Majeed 2022-ag-1522	2024	Effect of commercial probiotics on proximate body composition of Grass Carp
180	Kinza Noor 2022-ag-1523	2024	Evaluation of toxic effects of ciprofloxacin on hematology and oxidative stress of <i>Cirrhinus mrigala</i>
181	Ayesha 2022-ag-1536	2024	Effect of ZnO nanoparticles on immunomodulatory parameter of <i>Cirrhinus mrigala</i>
182	Areeba Rafaqat 2022-ag- 1537	2024	Studies on oxidative stress biomarkers in <i>Cirrhinus mrigala</i> exposed to sunscreen
183	Amra Muzzammal 2022-ag-1551	2024	Dietary tryptophan requirement of <i>Catla catla</i> fingerlings based on growth and antioxidant enzyme activity
184	Amna Rasheed 2022-ag-1555	2024	Study on histopathological biomarkers in Common Carp exposed to xylene
185	Nimra Nazir 2022-ag- 1561	2024	Evaluation of toxic effects of sulfamethoxazole on oxidative stress and hematology of <i>Cirrhinus mrigala</i>
186	Neelam Arshad 2022-ag-1562	2024	Determination of bioaccumulation of ciprofloxacin in Thaila and Rohu
187	Fatima Hassan 2022-ag-1566	2024	Evaluation of toxic effects of antibiotics in <i>Catla catla</i>
188	Neha Iqbal 2022-ag-1574	2024	Effects of dietary flaxseed oil supplementation on oxidative stress and hematology in <i>Labeo rohita</i>
189	Shahid Abbas 2022-ag-1575	2024	Effect of induced dioxin toxicity on the blood parameters of <i>Hypophthalmichthys molitrix</i>
190	Minahal Fatima 2022-ag-1598	2024	Studies on growth responses of <i>Hypophthalmichthys molitrix</i> during stress of water temperature
191	Ayesha Ayub 2022-ag-1599	2024	Response of antioxidant enzyme activity in <i>Catla catla</i> exposed to sublethal levels of organic UV filters
192	Amna Ashfaq 2022-ag-1600	2024	Effect of Black Cumin seed oil on haematological and biochemical parameters of Rohu (<i>Labeo rohita</i>)
193	Ume Farwa 2022-ag-1601	2024	Role of Oregano and Rosemary as feed additive to enhance antioxidant status of Silver Carp
194	Afsheen Ajmal 2022-ag-1605	2024	Dietary assessment of <i>Lactobacillus rhamnosus</i> probiotic on the growth performance of <i>Labeo rohita</i>
195	Farheen Ajmal 2022-ag-1606	2024	Beneficial effects of dietary probiotic mixture on the hemato-biochemical parameters of Nile Tilapia
196	Maryiam Zafar 2022-ag-1619	2024	Growth performance and body composition of <i>Cyprinus carpio</i> fingerlings under different levels of dietary protein
197	Nida Ehsan 2022-ag-1644	2024	Studies on the sub-lethal exposure of camphor on the hematology and serum biochemistry of Silver Carp
198	Anam Shehzadi 2022-ag-1645	2024	Effects of endosulfan on the growth and lysozymal activity of <i>Oreochromis niloticus</i>

199	Shumaila Rani 2022-ag-1646	2024	Toxicological impacts of sulfamethoxazole on oxidative stress and hematology of <i>Catla catla</i>
200	Nasir Ahmad 2022-ag-1647	2024	Effects of enrofloxacin on biochemical parameters of <i>Labeo rohita</i>
201	Kaynat Aslam 2022-ag-1648	2024	Dose and time dependent toxicological studies of organic UV filters on major carps
202	Ayesha Aftab 2022-ag-1652	2024	Toxicological impact of sulfamethoxazole on hematology and oxidative Stress in <i>Labeo rohita</i>
203	Muhammad Awais khan 2022-ag-1660	2024	Effects of ciprofloxacin on hematology and oxidative Stress of <i>Labeo rohita</i>

On going 3rd Semester = 20 students

M.Sc Students

2009 To 2015 Thesis = **30** completed

2016, 2017, 2018, 2019 Technical Reports = **152** completed

Sr. No.	Name of Student	Year	Title of Thesis
1	Sundas Naz	2009	Effect of chronic exposure of water-borne copper on the specific growth rate of fish <i>Cirrhina mrigala</i>
2	Aatikah Virk	2009	Effect of sub-lethal concentrations on water-borne metals on increase in fish weight and length.
3	Alia Tabbasam	2009	Effect on nickel toxicity on the growth performance of <i>Labeo rohita</i> .
4	Alia Nirjis	2009	Studies on the growth response of <i>Cirrhina mrigala</i> to sub-lethal cobalt concentration.
5	Atiya Latif	2009	Effect of water-borne cobalt on the feed intake, fcr and condition factor of fish.
6	Hafiza Tanzeela	2009	Effect of water-borne cobalt toxicity on the growth performance of <i>Catla catla</i> .
7	Wardah Hassan	2010	Acute toxicity of water borne nickel and manganese mixture to the fish, <i>Ctenopharyngodon idella</i> .
8	Ammara Riaz	2010	Effect of water borne and dietary cobalt sub-lethal toxicities on the growth performance of <i>Catla catla</i> .
9	Muhammad Zia ur Rehman	2010	Studies on 96-hr LC ₅₀ and lethal response of <i>Cirrhina mrigala</i> towards five water-borne metals (iron, zinc, lead, nickel and manganese) mixture.
10	Huma Naz	2010	Studies on the toxic effects of iron, zinc, lead and nickel mixture to the fish, <i>Cirrhina mrigala</i> .
11	Aysha Shifique	2010	Growth performance of <i>Cirrhina mrigala</i> as affect by the combined exposure of water-borne and dietary nickel.
12	Sobia Nawaz	2011	Studies on the activities of antioxidant enzymes in fish, viz. <i>Labeo rohita</i> and <i>Cirrhina mrigala</i> .
13	Faiza Sarfraz	2011	Growth responses of <i>Cirrhina mrigala</i> and <i>Labeo rohita</i> under chronic exposure of water-borne and dietary cobalt.
14	Sammrah Razaq	2012	Acute lethality of cadmium and chromium to <i>Channa marulius</i> .
15	Javeria Tabusam	2012	Acute toxicity of copper and lead to <i>Channa marulius</i>
16	Zermina Nasir	2012	Studies on growth and oxidative stress in <i>Labeo rohita</i> caused by dietary copper and cadmium.
17	Sobia Ahmad	2012	Studies on the antioxidant enzyme activities and growth performance in <i>Labeo rohita</i> exposed to chromium and cadmium.
18	Rabia Amin	2012	Effect of chronic exposure of cadmium and lead on the growth and antioxidant enzymes study in <i>Catla catla</i> .

19	Farah Naz	2013	Peroxidase characterization in <i>Cirrhinus mrigala</i> after the chronic exposure of copper.
20	Salma Saeed	2013	Isolation, partial characterization of peroxidase in lead and chromium exposed <i>Labeo rohita</i> .
21	Maryam Tariq	2013	Studies on the characterization of liver catalase in copper exposed <i>Cirrhinus mrigala</i> .
22	Uzma Sarwar	2013	Purification and characterization of liver catalase in lead and cadmium (Pb+Cd) exposed grass carp, <i>Ctenopharyngodon idella</i> .
23	Rafia Roshan	2014	Growth response of <i>Catla catla</i> fingerlings fed with diet containing different percentage of probiotics.
24	Sahar Iqbal	2014	Growth performance, antibacterial and immune response of Nile tilapia (<i>Oreochromis niloticus</i>) fingerlings by feeding with diets containing probiotics.
25	Zuhaa	2014	Growth response of <i>Cirrhinus mrigala</i> fingerlings fed with diet containing different nutritional additives.
26	Khadija Yousuf	2014	The effect of probiotics on growth performance and survival rate of <i>Labeo rohita</i> fingerling.
27	Kiran Hafeez	2014	Studies on the physico-chemical parameters of pond water used for grass carp (<i>Ctenopharyngodon idella</i>) growth as affected by probiotics.
28	Ayesha Saleem	2014	Study of bacterial flora in gills and buccal cavity of tilapia (<i>Oreochromis niloticus</i>) cultured in farms.
29	Arooj Samuel	2015	Studies on the effects of probiotics on the growth response of common carp, <i>Cyprinus carpio</i>
30	Zunara Tabasum	2015	The effect of different doses of probiotics on growth performance of grass carp (<i>Ctenopharyngodon idella</i>).