

DR. FAYYAZ RASOOL
ASSOCIATE PROFESSOR/HEAD OF DEPARTMENT
M.Sc., MPhil, PhD



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PERSONAL DATA

Father's Name: *Muhammad Sulaiman*
Date of Birth: *10th January, 1980*
Marital Status: *Married*
C.N.I.C. *32304-4072121-5*

ACADEMIC QUALIFICATION:

YEAR	DEGREE	UNIVERSITY/BOARD	DIVISION
2012	Ph.D.	University of Veterinary and Animal Sciences, Lahore	1 st
2006	M. Phil.	University of Agriculture, Faisalabad	1 st
2004	M. Sc.	University of Agriculture, Faisalabad	1 st
2002	B. Sc.	Islamia University, Bahawalpur	1 st
1998	F. Sc.	BISE D. G. Khan	1 st
1996	Matric	BISE D. G. Khan	1 st

PROFESSIONAL EXPERIENCE

1. **16th February, 2022 to Date:** *Associate Professor*, Department of Zoology, University of Education, Lahore (Faisalabad Campus)
2. **16th December, 2019 to 15th February, 2022:** *Associate Professor (Tenured)*, Department of Fisheries and Aquaculture, Faculty of Fisheries & Wildlife, University of Veterinary & Animal Sciences, Lahore
3. **20th November, 2012 to 15th December, 2019:** *Assistant Professor*, Department of Fisheries and Aquaculture, Faculty of Fisheries & Wildlife, University of Veterinary & Animal Sciences, Lahore
4. **1st July, 2006 to 19th November, 2012:** *Lecture*, Department of Fisheries and Aquaculture, Faculty of Fisheries & Wildlife, University of Veterinary & Animal Sciences, Lahore

Responsibilities:

- Coordinator/HOD Department of Zoology, University of Education, Lahore (Faisalabad Campus)
- Teaching Fisheries & Aquaculture Courses to B. S. (Hons.) Fisheries and Aquaculture, BS Zoology, M. Phil. and Ph.D. Fisheries and Aquaculture, DVM and Other Short Course Conducted by the Continuing Education Department of University
- Responsible for Research Projects of the Undergraduate and Postgraduate Students under Supervision
- Preparation/Revision of Scheme of Studies & Courses or Undergraduate & Postgraduate Degree Programs of Zoology and Fisheries & Aquaculture
- Official Duties as Fisheries Farm Manager in Department of Fisheries and Aquaculture

MEMBERSHIP OF THE BOARD/COMMITTEE/ORGANIZATION/SOCIETY etc.

1. Finance Secretary & Member Executive Council of the Pakistan-Fisheries & Aquaculture Society (Pak-FAS)
2. Member Scientific and Technical Committee & Editorial Review Board on Fisheries and Aquatic Sciences of World Academy of Science, Engineering and Technology, Conneticut, CT 06878, **USA**
3. Member working group on Fisheries and Aquaculture, "UVAS-INDUSTRY LIAISON"
4. Convener "QIRTAS" the Literary Society of UVAS, Lahore
5. Member Art & Literary Forum, UVAS, Lahore Member Department Board of Studies of Department of Fisheries and Aquaculture
6. Member and secretary to Faculty Board of Studies Faculty of Fisheries and Wildlife
7. Member PhD Synopsis Scrutiny Committee Faculty of Fisheries and Wildlife

Research and Development Projects:

1. Genetic Characterization & Genetic Improvement of *Labeo Spp.* Through Nutrigenomics, **PARC-ALP**, July 2020 to June 2023. **PI. 2.6432-Millions**
2. Prospects of induced breeding of Catfish species (*Pangasius hypophthalmus* and *Wallago attu*) for a sustainable supply of seed to the fish farming community of Pakistan. **Team Member**, Research Project **PARB 2021-2024** under Project No. 20-157. **30.647-Million**
3. Interactive Effects of Manipulated Artificial Feeds on Growth and Breeding Potential of *Channa spp.* **Leading Team Member**, Research Project **PARB 2018-21** under Project No. 695. **18.131-Million**
4. Growth and breeding potential of genetically male tilapia (GMT) through artificial feed and molecular approach in Pakistan. *January 2016 to January 2018*. **Co-PI. USPCAS-AFS. 3.2409-Millions**
5. Effect of water quality on the body size, growth and availability of *Labeo rohita* in selected natural waters for its sustainability fishery in Punjab-Pakistan. **“Principal Investigator” Research Project Funded by WWF-Pakistan” From October, 2008 to September, 2009.**
6. Prevalence, molecular characterization, antibiotic resistance and virulence-associated gene profiles of *Edwardsiella* isolated from farm raised cichlids and ictalurids and its impacts on their histopathology. **PhD Thesis of Dr. Kashif Manzoor, 2014-VA-1045**
7. Development of Molecular Markers for Pure Brood Stock Selection, Breeding and Rearing of Ornamental Fish, Research conducting for dissertation of student under my supervision during the year **2017**, Behloul Abbas, Reg. No. 2008-VA-616
8. Intraspecific genetic variations amongst the populations of *Labeo rohita*, Research conducted under my supervision during **2014** for dissertation of M. Phil. Student Mr. Syed Shafat Hussain, Reg. No. 2008-VA-614
9. Mapping the genetic diversity of the populations of *Cirrhinus mrigala* through Mitochondrial ATPase 6/8 genes, Research conducted during the year **2016** for dissertation of student Mr. Noor Muhammad, Reg. No. 2014-VA-543 working under my supervision
10. Studies on genetic diversity of *Labeo rohita* and *Cirrhinus mrigala* by using molecular markers in Punjab-Pakistan, **2012**. Ph. D. Research Project for Dissertation under supervision of **Prof. Dr. Naureen Aziz Qureshi**
11. Effect of different plant origin proteins on the growth performance of major carps in semi-intensive fish culture system, **2006**. M. Phil. Research Project for Dissertation under supervision of **Prof. Dr. Iftikhar Ahmed**
12. Preparation of Revised PC-I of the Development Project “Establishment of Research and Training Facilities for Fisheries and Aquaculture at Ravi Campus Pattoki of University of Veterinary and Animal Sciences, Lahore-**2006**.”
13. Effect of *Labeo rohita* on the growth performance of Chinese carps in semi-intensive pond culture system, **2004**. M. Sc. Research Project for Dissertation under supervision of **Prof. Dr. Muhammad Afzal**

PUBLICATIONS:

CO-AUTHOR OF PROCEEDINGS AND LINK REPORT:

1. Co-author of Proceedings of Fisheries International Conference on Solving Problems of Freshwater Fish Culture in Pakistan”. 2007.
2. Co-author of End of the Link Report HEC-BC Joint Higher Education Link Programme, 2007.

INTERNATIONAL BOOK AUTHOR:

1. “Composite Culture of Major and Chinese Carps in Freshwater Ponds”, **2014**. LAP LAMBERT Academic Publishing, Heinrich-Bocking-Street, 6-8, 66121, Saarbrücken, Germany. ISBN 978-3-659-11217-1

NEWS PAPER ARTICLES:

1. “Studies on genetic diversity of *Labeo rohita* and *Cirrhinus mrigala* by using molecular markers in Punjab-Pakistan”, Published in “*DAILY BUSINESS*” 30th August, **2012**
2. “Research can play significant role in fish production”, Published in “*DAILY BUSINESS*” 13th January, **2021**

RESEARCH ARTICLES IN JOURNALS/PROCEEDINGS:

1. Kashif Manzoor, **Fayyaz Rasool**, Noor Khan, Khalid Mehmood Anjum and Shakeela Parveen, **2023**. Prevalence and molecular detection of *Edwardsiella* in cultured tilapia species of fish farms of Punjab in Pakistan. **Submitted** for publication in Pakistan Veterinary Journal (PVJ). (IF = 1.803)
2. Kashif Manzoor, **Fayyaz Rasool**, Noor Khan, Khalid Mehmood Anjum and Shakeela Parveen, **2023**. Occurrence of virulence genes of *Edwardsiella* detected in cultured tilapia species of fish farms of Punjab, Pakistan and its impact on their histopathology. **Submitted** for publication Pakistan Journal of Agricultural Sciences (PakJAS) (IF = 0.748)
3. Kashif Manzoor, **Fayyaz Rasool**, Noor Khan, Khalid Mehmood Anjum and Shakeela Parveen, **2023**. Resistance patterns of frequently applied antimicrobials and occurrence of antibiotic resistance genes in *Edwardsiella* in Edwardsiellosis-affected tilapia species cultured in fish farms of Punjab in Pakistan. **Submitted** for publication Journal of Microbiology and Biotechnology (JMB) (IF = 3.277)
4. A. Ayub, **F. Rasool**, N. Khan, S. N. Qaisrani and S. Parveen, **2022**. Limiting amino acids supplementation in low crude protein diets and their impacts on growth performance, body composition, amino acids profile and hematology of *Labeo rohita* fry. Journal of Animal and Plant Sciences, 32(4): 1127-1135 (IF = 0.490).
5. Kinza Asghar, **Fayyaz Rasool**, Shakeela Parveen, Muhammad Akmal, Khalid Mahmood Anjum, Matiullah and Shahid Mahmood, **2022**. Effect of probiotics on growth and health status of *Labeo rohita*. Pakistan Journal of Agricultural Sciences, 59(1): 135-145 (IF = 0.748).
6. Shakeela Parveen, **Fayyaz Rasool**, Mehar-un-Nisa, Noor Khan, Matiullah, Shahid Mahmood, Ghulam Rabbani, Kashif Manzoor, **2021**. Effect of *Moringa olifera* leaves on growth and gut microbiota of Nile Tilapia (*Oreochromis niloticus*). Brazilian Journal of Biology, 84(1): 1-6 (IF = 1.465).
7. Amina Ayub, **Fayyaz Rasool**, Noor Khan, Shafqat Nawaz Qaisrani, **Shakeela Parveen**, Khalid Mehmood Anjum, Mahroze Fatima, Matiullah, Shahid Mehmood and Talha Zulfiqar, **2021**. Limiting amino acids supplementation in low crude protein diets and their impacts on growth performance and carcass composition in *Labeo rohita* (rohu) adult fish. Brazilian Journal of Biology, 83(2): 1-8 (IF = 1.465).
8. Amina Ayub, **Fayyaz Rasool**, Noor Khan, Shafqat Nawaz Qaisrani and Shakeela Parveen, **2021**. Limiting amino acids supplementation in low crude protein diets and their impacts on growth performance, body composition, amino acids profile and hematology of *Labeo rohita* fingerlings. Pakistan Journal of Agricultural Sciences, 58(1): 151-160 (IF = 0.748)
9. Maryam Fareed, Noor Khan, Mahroze Fatima, **Fayyaz Rasool**, Hamda Azmat, Khalid Javed Iqbal, Sadia Nazir, Sheza Bano, Ayesha Khizar, Muhammad Asghar, **2021**. Performance evaluation of the commercial aquafeeds available in the market of Pakistan on *Channa marulius* (Sole). Brazilian Journal of Biology, 84(2): 1-6 (IF = 1.465).
10. Mati Ullah, Saeed-ul-Hassan Khan, Waheed Ullah, Amir Afzal Khan, **Fayyaz Rasool**, Shahzad Ali, Muhammad Ilyas Khan, Talha Zulfiqar, Yousaf Amin Khan, Kashif Manzoor, Shahid Mahmood, Ghulam Rabbani, Fawad Inayat and Pashmina Afridi. **2020**. Molecular Detection of Beta-lactamase Genes in *Proteus* Species Isolated from Urinary Tract Infections in a Pakistani Hospital. Annals of R.S.C.B., ISSN: 1583-6258, 24(2): 1511-1521 (IF = 0.90).
11. Khalid Mahmood Anjum, **Fayyaz Rasool**, Ehsan Mehmood Bhatti, Samina Liaquat, Muhammad Zubair Yousaf, Shafaq Zahid, Noor Khan and Muhammad Yameen, **2019**. Comparative hypolipidemic efficacy of homeopathic mother tincture *Allium Sativa Q*, *Curcuma Longa Q* and statin in normal and cholesterol fed rabbits. Indian Journal of Animal Research, DOI: 10.18805/ijar.B-966, 53(8): 1029-1032 (IF = 0.44)
12. **Fayyaz Rasool**, Shafat Hussain, Noor Khan, Shakeela Parveen, Tanveer Hussain, Hamda Azmat and Khalid Mehmood Anjum, **2018**. ATPase 6/8 Gene Assisted Variability among the Populations

- of *Labeo rohita* and its Global Genealogy Relationship with Cyprinids. Pakistan Journal of Zoology, Supplementary (2018): 94-100 (**IF = 0.831**).
13. **Fayyaz Rasool**, Shakeela Parveen, Naila Ata, Noor Khan and Khalid Mehmood Anjum, **2018**. Effect of Ascorbic Acid on Survival and Bacterial Contents in the Gut Contents of *Oreochromis niloticus*. Pakistan Journal of Zoology, Supplementary (2018): 101-106 (**IF = 0.831**).
 14. **Fayyaz Rasool**, Zuaira Hassan, Shakeela Parveen, Noor Khan and Khalid Mehmood Anjum, **2018**. Dietary effect of *Allium sativum* (garlic) as a Prebiotic on the Growth and Immunity of *Oreochromis niloticus* (tilapia). Pakistan Journal of Zoology, Supplementary (2018): 174-178 (**IF = 0.831**).
 15. Shakeela Parveen, **Fayyaz Rasool**, Iftikhar Ahmed, Noor Khan and Muhammad Shafiq Ahmad, **2018**. Studies on Growth Performance of *Cyprinus Carpio* through Supplementary Feed in Monoculture Production System. Pakistan Journal of Zoology, Supplementary (2018): 107-111 (**IF = 0.831**).
 16. Tehmina Yaqoob, Noor Khan, **Fayyaz Rasool**, Muhammad Hafeez-ur-Rehman, Khalid Javed Iqbal, Khalid Mahmood Anjum, Hamda Azmat, Sadaf Dogar, Iftikhar Ahmed Qureshi, Atifa Sultana and Ghina Islam, **2018**. Effect of Phytase Supplementation in Formulated Feed for *Pangasius hypophthalmus* to Increase the Use of Cotton Seed meal by Replacing Fish Meal. Pakistan Journal of Zoology, Supplementary (2018): 36-41 (**IF = 0.831**).
 17. Iqra Anwer, Muhammad Hafeez-ur-Rehman, Farzana Abbas, Arshad Javid, Ali Hussain, Noor Khan, Muhammad Akmal, Ghulam Abbas, **Fayyaz Rasool** and Hamda Azmat, **2018**. Effect of Onion Powder as Feed Additive on the Growth, Hematology and Biochemical Profile of Grass Carp (*Ctenopharyngodon idella*). Pakistan Journal of Zoology, Supplementary (2018): 58-64 (**IF = 0.831**).
 18. Noor Khan, Usman Atique, Muhammad Ashraf, Ahmed Mustafa, Muhammad Sharif Mughal, **Fayyaz Rasool**, Hamda Azmat, Muhammad Tayyab and Khalid Javed Iqbal, **2018**. Effect of Various Protein Feeds on the Growth, Body Composition, Hematology and Endogenous Enzymes of Catfish (*Pangasius hypophthalmus*). Pakistan Journal of Zoology, Supplementary (2018): 112-119 (**IF = 0.831**).
 19. Ayub Khawar, Noor Khan, **Fayyaz Rasool**, Khalid Mahmood Anjum, Hamda Azmat, Khalid Javed Iqbal, Sadaf Dogar, Sadia Nazir, Summia Parveen, Sheeza Bano, Hira Waris and Tehmina Yaqoob, **2018**. Comparison of Traditional (Rice Polish) and Commercial Aquafeed on the Growth and Body Composition of Indian and Chinese Carps in Composite Culture System. Pakistan Journal of Zoology, Supplementary (2018): 221-225 (**IF = 0.831**).
 20. Muhammad Imran, Noor Khan, Christopher J. Secombes, Samuel A.M. Martin, **Fayyaz Rasool**, Khalid Javed Iqbal, Hamda Azmat, Mahroze Fatima, Sadaf Dogar, Daniel Masood, Abdul Hanan, Azra Anwer and Muhammad Sharif Mughal, **2018**. Moringa Meal as an Alternate Protein Source for *Labeo rohita* Fingerlings: Effects on Growth and Body Composition. Pakistan Journal of Zoology, Supplementary (2018): 226-232 (**IF = 0.831**).
 21. Khalid Javed Iqbal, Muhammad Ashraf, Arshad Javid, Muhammad Shafique Chaudhary, Noor Khan, Hamid Majeed, Farzana Abbas, Muhammad Hafeez-ur-Rehman, **Fayyaz Rasool**, Muhammad Altaf and Irfan, **2018**. Effect of different feed ingredients on digestive enzymes activity and on the histology of liver and intestine in *Labeo rohita*, Hamilton, 1822. Indian J. Fish., 65(4): 93-101
 22. Khalid Mehmood Anjum, Atif Yaqub, Ehsan Mehmood Bhatti, Muhammad Yameen, Muhammad Sharif Mughal, Noor Khan, **Fayyaz Rasool**, Sumaira Abbas and Waseem Khan, **2018**. Assessment of Zinc and Lead Concentration in Water and Muscles of *Labeo rohita* Collected from Wild and Local Fish Farms of Pakistan. Indian Journal of Animal Research, DOI: 10.18805/ijar.B-752 (**IF = 0.44**)
 23. Zahoor Ahmed Khetran, Zohaib Noor, Fayyaz Rasool, Muhammad Naveed, Aslam, Zulfiqar Ali Rahujo, Hussain Mehdi, Abdul Sattar Khetran, Muhammad Rafique Khetran, Karim Johar Khan, Muhammad Ahmad, Mannal Noor, **2018**. Effect of *Moringa oleifera* leaves on the growth and enzymatic activities of *Labeo rohita* by replacing with fish meal. International Journal of Biosciences, 12(1): 200-205. (*HEC-Recognized*).
 24. Rafia Tayyab, Noor Khan, Muhammad Ashraf, Anjum Khalique, **Fayyaz Rasool**, Hamda Azmat, Sumaira Abbas, Khalid Mahmood Anjum, Dawar Hameed Mughal, Khalid Javed Iqbal, Sadaf Dogar Hongik Kim and Mahanama De Zoysa, **2017**. Comparative studies of beta glucan and plant

- stimulants on the growth, histology and immune response of *Labeo rohita*. Iranian Journal of Fisheries Sciences, 18(4): 862-872 (**IF = 0.801**)
25. Khalid Javed Iqbal, Muhammad Ashraf, Arshad Javid, Noor Khan, Farzana Abbas, Muhammad Hafeez-ur-Rehman, Muhammad Kamran Rafique, **Fayyaz Rasool**, Hamda Azmat, Muhammad Altaf and Irfan, **2016**. Effect of Different Plant and Animal Origin (Fishmeal) Feeds on Digestive Enzyme Activity and Haematology of Juvenile *Labeo rohita*. Pakistan Journal of Zoology; 48(1): 201-207 (**IF = 0.831**).
 26. Matiullah, **Fayyaz Rasool**, Ehsan Mehmood Bhatti, Noor Khan and Shakeela Parveen, **2016**. Use of black pepper seed as growth enhancer in *Labeo rohita*. International Journal of Biosciences, 8(3): 1-9. (**HEC-Recognized**).
 27. Hussain Mehdi, Noor Khan, Khalid Javed Iqbal, **Fayyaz Rasool**, Muhammad Shafiq Chaudhry and Karim Johar Khan, **2016**. Effect of *Moringa oleifera* meal on the growth, body composition and nutrient digestibility of *Labeo rohita*. International Journal of Biosciences, 8(4): 11-17. (**HEC-Recognized**).
 28. Karim Johar Khan, Noor Khan, **Fayyaz Rasool**, Sana Ullah and Said Hassan, **2015**. Apparent Digestibility of Selected Plant Based Ingredients and Their Impacts on Body Composition of Mori, *Cirrhinus mrigala* (Hamilton, 1882). Global Veterinaria 15 (6): 536-540
 29. Khalid Javed Iqbal, Muhammad Ashraf, Naureen Aziz Qureshi, Arshad Javid, Farzana Abbas, Muhammad Hafeez-ur-Rehman, **Fayyaz Rasool**, Noor Khan and Sumaira Abbas, **2015**. Optimizing Growth Potential of *Labeo rohita* Fingerlings Fed on Different Plant Origin Feeds. Pakistan Journal of Zoology; 47(1): 31-36 (**IF = 0.831**).
 30. Muhammad Hafeez-ur-Rehman, Khalid Javed Iqbal, Farzana Abbas, Mirza Muhammad Haroon Mushtaq, **Fayyaz Rasool** and Shakeela Parveen, **2015**. Influence of Feeding Frequency on Growth performance and Body Indices of Goldfish (*Carrassius auratus*). Journal of Aquaculture Research & Development, 6: 336. <http://dx.doi.org/10.4172/2155-9546.1000336>
 31. **Fayyaz Rasool**, Shakeela Parveen, Ehsan Mahmood Bhatti and Noor Khan, **2015**. Agglomerative Hierarchical Clustering Based on Morphometric parameters of the Populations of *Labeo rohita*. Journal of Biodiversity and Environmental Sciences, 6(3): 200-206. (**HEC-Recognized**)
 32. Shakeela Parveen, **Fayyaz Rasool**, Ehsan Mahmood Bhatti, Muhammad Ismail Chughtai and Zartashia Saman, **2015**. Growth Performance and Proximate Composition of Nile Tilapia (*Oreochromis niloticus* L.) in Saline Environments. International Journal of Biosciences, 6(2): 37-41. (**HEC-Recognized**).
 33. Shakeela Parveen, **Fayyaz Rasool**, Ehsan Mahmood Bhatti, Andlib Anwar and Muhammad Ismail Chughtai, **2015**. Seasonal variations in the intestinal bacterial flora of *Oreochromis niloticus* cultured in farms. Journal of Biodiversity and Environmental Sciences, 2(7): 15-20. (**HEC-Recognized**)
 34. **Fayyaz Rasool**, Naureen Aziz Qureshi and Shakeela Parveen, **2014**. Genetic variation among the wild and hatchery raised populations of *Labeo rohita* (Hamilton, 1822) revealed by RAPD markers. International Journal of Biosciences, 5(12): 237-249. (**HEC-Recognized**).
 35. Ehsan Mehmood Bhatti, Naureen Aziz Qureshi, **Fayyaz Rasool**, Muhammad Siddique and Abu Baker Siddiqui, **2014**. Characterization of *Channa marulius* populations in various water bodies of Punjab-Pakistan. Pakistan Journal of Agricultural Sciences, 51(3): 539-544 (**IF = 0.748**).
 36. **Fayyaz Rasool**, Naureen Aziz Qureshi, Muhammad Siddique, Shakeela Parveen, Muhammad Ashraf, Amjad Hameed, Noor Khan, Khalid and Javed Iqbal, **2014**. Principle Component Analysis for Intraspecific Variation among the Populations of *Cirrhinus mrigala*" Pakistan Journal of Agricultural Sciences, 51(2): 513-519 (**IF = 0.748**).
 37. **Fayyaz Rasool**, Syed Shafat Hussain and **Shakeela Parveen**, **2014**. Morphometric parameters assisted studies on the variations amongst the population of *Labeo rohita*. Journal of Biodiversity and Environmental Sciences, 5(6): 200-206. (**HEC-Recognized**)
 38. Ehsan Mehmood Bhatti, Naureen Aziz Qureshi, **Fayyaz Rasool**, Muhammad Siddique and Abu Baker Saddiqi, **2014**. Cluster analysis in *Channa punctatus* fish revealed by molecular markers in Punjab-Pakistan. Pakistan Journal of Science, 66(4): 317-324 (**HEC-Recognized**)

39. Noor Khan, Muhammad Ashraf, Muhammad Sharif Mughal, Naureen Aziz Qureshi, Muhammad Naeem Khan, **Fayyaz Rasool**, Muhammad Hafeez-ur-Rehman, Muhammad Nasir, Waqas Ali and Khalid Javed Iqbal, **2014**. Survival and growth potential of Genetically Male Tilapia (GMT) fry in flow through system under different dietary protein concentrations. *Pakistan Journal of Zoology*; 46(2): 377-382 (**IF = 0.831**).
40. Khalid Javed Iqbal, Muhammad Ashraf, Arshad Javid, Farzana Abbas, Muhammad Hafeez-ur-Rehman, **Fayyaz Rasool**, Noor Khan, Sumaira Abbas, and Muhammad Altaf, **2014**. Effect of feed on the mineral composition of *Labeo rohita*. *International Journal of Farming and Allied Sciences*; 3(9): 952-955.
41. Khalid Javed Iqbal, Muhammad Ashraf, Farzana Abbas, Arshad Javed, Muhammad Hafeez-ur-Rehman, **Fayyaz Rasool**, Noor Khan, Sumaira Abbas, Saeed Akram and Muhammad Altaf, **2014**. Effect of Plant-Fishmeal and Plant By-Product based Feed on growth, body composition and organoleptic flesh qualities of *Labeo rohita*. *Pakistan Journal of Zoology*; 46(1): 253-260 (**IF = 0.831**).
42. Rafia Tayyab, Noor Khan, Muhammad Sharif Mughal, Naureen Aziz Qureshi, Muhammad Naeem Khan and **Fayyaz Rasool**, **2014**. Evaluation of locally available plant meals as a replacement of soybean meal as dietary protein source for *Catla catla* fingerlings. *Pakistan Journal of Zoology*; 46(1): 61-66 (**IF = 0.831**).
43. Muhammad Ashraf, Sumaira Abbas, M. Hafeez-ur-Rehman, **Fayyaz Rasool**, Noor Khan, Asma Zafar, Ehsan Mehmood and Muhammad Naeem, **2014**. Effect of Different Levels of A-Cellulose on Growth and Survival of Rohu (*Labeo Rohita*) Fingerlings. *Global Journal of Animal Scientific Research*. 2(4): 321-326. 2014
44. Karim Johar Khan, Noor Khan, **Fayyaz Rasool** and Sana Ullah, **2014**. Limnological Assessment of Some Selected Raceways Rectangular Tanks at UVAS Lahore Ravi Campus Pattoki) Pakistan. *International Journal of Research in Agriculture and Forestry*. 1(1): 21-26
45. **Fayyaz Rasool**, Naureen Aziz Qureshi, Shakeela Parveen, Muhammad Siddique, Amjad Hameed, Noor Khan and Khalid Javed Iqbal, **2013**. Morphometric Parameters Based Study of the Hatchery Raised and Natural Populations of *Labeo rohita*. *Pakistan Journal of Zoology*, 45(4): 903-907 (**IF = 0.831**).
46. **Fayyaz Rasool**, Naureen Aziz Qureshi, Muhammad Siddique, Muhammad Ashraf, Ahmad Ali, Amjad Hameed and Shakeela Parveen, **2013**. Clustering analysis for intraspecific variation studies amongst the populations of *Cirrhinus Mrigala*. *Journal of Animal and Plant Sciences*, 23(5): 1327-1332 (**IF = 0.490**).
47. **Fayyaz Rasool**, Naureen Aziz Qureshi, Shakeela Parveen, Muhammad Siddique, Amjad Hameed, Muhammad Ashraf, Noor Khan and Khalid Javed Iqbal, **2013**. Principle Component Analysis for the Variation among the Populations of *Labeo rohita*. *Journal of Animal and Plant Sciences*, 23(2): 487-492 (**IF = 0.490**).
48. Shakeela Parveen, Iftikhar Ahmed, Abdul Mateen, Mansoor Hameed and **Fayyaz Rasool**, **2012**. Substitution of animal protein with plant protein fed to *Labeo rohita* and *Cirrhinus mrigala* and its effect on growth and carcass composition. *Pakistan Journal of Agricultural Sciences*, 49(4), 569-575 (**IF = 0.748**).
49. Khalid Javed Iqbal, Naureen Aziz Qureshi, Muhammad Ashraf, Muhammad Hafeez-ur-Rehman, Noor Khan, Arshad Javed, Farzana Abbas, Mirza Haroon Mushtaq, **Fayyaz Rasool** and Hamid Majeed, **2012**. Effect of Different Salinity Levels on the Growth and Survival of Nile Tilapia (*Oreochromis niloticus*). *Journal of Plant and Animal Science*, 22(4): 919-922 (**IF = 0.490**).
50. Noor Khan, Muhammad Ashraf, Naureen Aziz Qureshi, Pallab Kumer Sarker, Grant William Vandenberg and **Fayyaz Rasool**, **2012**. Effect of similar feeding regime on growth and body composition of Indian major carps (*Catla catla*, *Cirrhinus mrigala* and *Labeo rohita*) under mono and polyculture. *African Journal of Biotechnology*. 11(44): 10280-10290 (**IF = 0.558**).
51. Noor Khan, Naureen Aziz Qureshi, Muhammad Nasir, **Fayyaz Rasool** and Khalid Javed Iqbal, **2011**. Effect of Artificial Diet and Culture Systems on Sensory Quality of Fried Fish Flesh of Indian Major Carps. *Pakistan Journal of Zoology*; 43(6): 1177-1182 (**IF = 0.831**).

52. Muhammad Hafeez-ur-Rehman, Iftikhar Ahmed, Muhammad Ashraf, Noor Khan and **Fayyaz Rasool**, 2008. The Culture performance of mono-sex and mixed-Sex tilapia in fertilized ponds. *International Journal of Agriculture & Biology*; 10: 352–354 (IF = 0.89).
53. **Fayyaz Rasool**, Muhammad Hafeez-ur-Rehman, Noor Khan and Shakeela Parveen, 2007. Effect of different plant origin proteins on the growth performance of major carps in semi-intensive fish culture system. *Proceedings of International Conference on solving problems of freshwater farming in Pakistan at UVAS-Lahore*, Pages: 97-104.
54. Muhammad Afzal, **Fayyaz Rasool**, Shakeela Parveen and Sikander Hayat, 2007. Effect of *Labeo rohita* on the growth performance of Chinese carps in semi-intensive pond culture system. *Proceedings of International Conference on solving problems of freshwater farming in Pakistan at UVAS-Lahore*, Pages: 63-72.

ABSTRACTS IN CONFERENCE PROCEEDINGS:

1. Kashif Manzoor, **Fayyaz Rasool**, Shakeela Parveen, Muhammad Hafeez-ur-Rehman, Matiullah, Shahid Mahmood and Amina Ayub. 2021. Impact of feed with varying crude protein (CP) levels on growth performance of different fish species cultured under similar regimes. 4th International Conference on Innovative Biological and Public Health Research, Department of Zoology, GCU-Lahore (December 07-08, 2021)
2. Fatima Khan, Mahroze Fatima, Syed Zakir Hussain Shah, Noor Khan, Hamda Azmat, **Fayyaz Rasool**, Ayesha Khair, Mehwish Khan, 2021. Interactive Effect of Vitamin C and E on Growth, Lipid Peroxidation, Blood Biochemistry and Survival Rate of Silver Carp. 4th International Conference on Innovative Biological and Public Health Research, Department of Zoology, GCU-Lahore (December 07-08, 2021)
3. **Fayyaz Rasool**, Mahrukh Butt, Shakeela Parveen, Noor Khan and khalid Mahmood Anjum, 2019. 2nd International Conference on Applied Zoology. GCU-Faisalabad. (20-21 December, 2019)
4. **Fayyaz Rasool**, Mahrukh Butt, Shakeela Parveen, Muhammad Tayyab, Matiullah, Ayaz Alam, Muhammad Moavia, Ghulam Rabbani, Behloul Abbas and Adul Rehman, 2019. Histopathological and serum biochemistry analysis of genetically male tilapia (*Oreochromis niloticus*) fed with feeds supplemented with dietary vegetable oils. Department of Fisheries & Aquaculture, UVAS-Lahore (January 30-31, 2019)
5. **Fayyaz Rasool**, Matiullah, Shakeela Parveen, Amir Afzal Khan, Ayaz Alam, Syed Shafat Hussain, Ayub Khawar, Muhammad Moavia, and Adul Rehman, 2019. Use of species specific 16s rRNA marker for the detection of *Escherichia coli*, isolated from farm raised infected *Labeo rohita*. Department of Fisheries & Aquaculture, UVAS-Lahore (January 30-31, 2019)
6. **Fayyaz Rasool**, Behloul Abbas, Shakeela Parveen, Asad Ali, Matiullah, Ghulam Rabbani, Ayesha Sarwar, Muhammad Moavia, Syed Shafat Hussain and Adul Rehman, 2019. Development of molecular markers for pure brood stock selection, breeding and rearing of ornamental fish. Department of Fisheries & Aquaculture, UVAS-Lahore (January 30-31, 2019)
7. **Fayyaz Rasool**, Naureen Aziz Qureshi, Sadia Nazir, Shakeela Parveen, Hamda Azmat, Noor Khan, Sheeza Bano, Khalid Mahmood Anjum and Muhammad Imran, 2019. Disease Surveillance and Identification of Bacterial Pathogens of Indian Major Carps. Department of Fisheries & Aquaculture, UVAS-Lahore (January 30-31, 2019)
8. **Fayyaz Rasool**, Mehar-un-Nissa Akram, Shakeela Perveen, Matiullah, Shahbaz Anwar, Ayesha Sarwar, Muhammad Moavia and Adul Rehman, 2019. Effect of *Moringa Olifera* Leaves on Growth and Gut Microbiota Health of Tilapia. Department of Fisheries & Aquaculture, UVAS-Lahore (January 30-31, 2019)
9. R.S.N. Janjua, **Fayyaz Rasool**, Shafaq Fatima, Sehar Munawar and Tajamul Rasheed, 2019. Journey From Introduction till Local Production of Soy-Based Floating Extruded Aquafeed in Pakistan; A Revolution in Aquaculture Industry. Department of Fisheries & Aquaculture, UVAS-Lahore (January 30-31, 2019)
10. Hira Waris, Noor Khan, Khalid Javed Iqbal, Mahroze Fatima, **Fayyaz Rasool**, Sadaf Dogar, Sheeza Bano, Saima Ismail and Sadia Nazir, 2019. Synergetic effect of dietary essential amino acids (lysine & methionine) on the growth, body composition and enzymes activities of

- Genetically Male Tilapia (GMT). Department of Fisheries & Aquaculture, UVAS-Lahore (January 30-31, 2019)
11. Mahroze Fatima, Muhammad Afzal, Syed Zakir Hussain Shah, Noor Khan, Hamda Azmat, **Fayyaz Rasool** and Moazama Batool, **2019**. Effect of dietary vitamin e on growth, antioxidant defense mechanism and fatty acid profile of *Labeo rohita*. Department of Fisheries & Aquaculture, UVAS-Lahore (January 30-31, 2019)
 12. Asim Ullah, Hamda Azmat, Noor Khan, **Fayyaz Rasool** and Mariyam Farid, **2019**. Effect of black pepper leaf extract supplemented diets on growth and immunity of *Labeo rohita*. Department of Fisheries & Aquaculture, UVAS-Lahore (January 30-31, 2019)
 13. Bakhtawar Baig, Hamda Azmat, Noor Khan, **Fayyaz Rasool**, Muhammad Hafeez-ur-Rehman, Mahroze Fatima, Farzana Abbas, Shahid Sherzada and Muhammad Akmal, **2019**. Studies on chromium bioaccumulation patterns of *Cirrhinus mrigala* in relation to water and sediments at River Ravi, Pakistan. Department of Fisheries & Aquaculture, UVAS-Lahore (January 30-31, 2019)
 14. **Fayyaz Rasool**, Shakeela Parveen and Noor Khan, 2017. Correlation of planktonic biomass with other physico-chemical parameters of water quality in fertilized ponds. 6th International Fisheries Symposium & Expo, Organized by UVAS, Punjab Fisheries Department & Pakistan Fishery Society, from 8-9 February, 2017 at Flatties Hotel, Lahore. *IFSE-2017-A-13*
 15. Faiza Ijaz, Shakeela Parveen and **Fayyaz Rasool**, 2017. Effects of guava (*psidium guajava*) on growth potential and immunology of tilapia (*Oreochromis niloticus*). 6th International Fisheries Symposium & Expo, Organized by UVAS, Punjab Fisheries Department & Pakistan Fishery Society, from 8-9 February, 2017 at Flatties Hotel, Lahore. *IFSE-2017-B-09*
 16. Shakeela Parveen, **Fayyaz Rasool** and Noor Khan, 2017. Studies on growth performance of *cyprinus carpio* through supplementary feed in monoculture production system. 6th International Fisheries Symposium & Expo, Organized by UVAS, Punjab Fisheries Department & Pakistan Fishery Society, from 8-9 February, 2017 at Flatties Hotel, Lahore. *IFSE-2017-B-18*
 17. **Fayyaz Rasool**, Shakeela Parveen, Naila Ata and Noor Khan, 2017. Effect of ascorbic acid on survival and bacterial contents in the gut contents of *Oreochromis niloticus*. 6th International Fisheries Symposium & Expo, Organized by UVAS, Punjab Fisheries Department & Pakistan Fishery Society, from 8-9 February, 2017 at Flatties Hotel, Lahore. *IFSE-2017-C-15*
 18. Uzma Zulfiqar, **Fayyaz Rasool**, Shakeela Parveen, 2017. Determination of coliforms and eps producing bacteria in fins and scales of *cirrhinus mrigala* (mori) cultured in fresh and brackish water ponds. 6th International Fisheries Symposium & Expo, Organized by UVAS, Punjab Fisheries Department & Pakistan Fishery Society, from 8-9 February, 2017 at Flatties Hotel, Lahore. *IFSE-2017-C-16*
 19. Kashif Manzoor, **Fayyaz Rasool** and Shakeela Parveen, 2017. Genetic characterization of GMT (genetically modified/male tilapia) *Oreochromis niloticus* by RAPD. 6th International Fisheries Symposium & Expo, Organized by UVAS, Punjab Fisheries Department & Pakistan Fishery Society, from 8-9 February, 2017 at Flatties Hotel, Lahore. *IFSE-2017-D-06*
 20. **Fayyaz Rasool**, Syed Shafat Hussain, Shakeela Parveen, Tanveer Hussin and Noor Khan, 2017. Cytochrome b gene assisted genetic variability studies among the populations of *Labeo rohita*. 6th International Fisheries Symposium & Expo, Organized by UVAS, Punjab Fisheries Department & Pakistan Fishery Society, from 8-9 February, 2017 at Flatties Hotel, Lahore. *IFSE-2017-D-14*
 21. **Fayyaz Rasool**, Naureen Aziz Qureshi, Shakeela Parveen, Amjad Hameed, Muhammad Siddiq Khalid Javed Iqbal, 2017. Genetic variation among the wild and hatchery raised populations of *Cirrhinus mrigala* revealed by RAPD Markers. 6th International Fisheries Symposium & Expo, Organized by UVAS, Punjab Fisheries Department & Pakistan Fishery Society, from 8-9 February, 2017 at Flatties Hotel, Lahore. *IFSE-2017-D-15*
 22. **Fayyaz Rasool**, Noor Muhammad, Shakeela Parveen and Noor Khan, 2017. Morphometric variability studies among the populations of *Cirrhinus mrigala* from Indus Riverine system of

- Pakistan. 6th International Fisheries Symposium & Expo, Organized by UVAS, Punjab Fisheries Department & Pakistan Fishery Society, from 8-9 February, 2017 at Flatties Hotel, Lahore. *IFSE-2017-F-04*
23. **Fayyaz Rasool**, Shakeela Parveen and Noor khan, 2017. Status of Indian Major Carp *Labeo rohita* in selected natural waters for its sustainable fishery in Punjab (Pakistan). 6th International Fisheries Symposium & Expo, Organized by UVAS, Punjab Fisheries Department & Pakistan Fishery Society, from 8-9 February, 2017 at Flatties Hotel, Lahore. *IFSE-2017-F-13*
 24. **Fayyaz Rasool**, Noor Muhammad, Shakeela Parveen and Noor Khan, 2017. Morphometric variability studies among the populations of *Cirrhinus mrigala* from Indus Riverine system of Pakistan. 6th International Fisheries Symposium & Expo, Organized by UVAS, Punjab Fisheries Department & Pakistan Fishery Society, from 8-9 February, 2017 at Flatties Hotel, Lahore. *IFSE-2017-F-14*
 25. **Fayyaz Rasool**, Shakeela Parveen, Muhammad Yasir Zahoor, Noor Khan and Khalid Mehmood Anjum, 2017. ATPase 6/8 gene assisted variability among the populations of *Cirrhinus mrigala* and its global genealogy relationship with *Cyprinids*. 6th International Fisheries Symposium & Expo, Organized by UVAS, Punjab Fisheries Department & Pakistan Fishery Society, from 8-9 February, 2017 at Flatties Hotel, Lahore. *IFSE-2017-G-01*
 26. **Fayyaz Rasool**, Shafat Hussain, Noor Khan, Shakeela Parveen, Tanveer Hussain, Hamda Azmat and Khalid Mehmood Anjum, 2017. ATPase 6 and atpase8 genes assisted variability among the populations of *Labeo rohita* and its global genealogy relationship with cyprinids. 6th International Fisheries Symposium & Expo, Organized by UVAS, Punjab Fisheries Department & Pakistan Fishery Society, from 8-9 February, 2017 at Flatties Hotel, Lahore. *IFSE-2017-G-05*
 27. Mahrukh Butt, **Fayyaz Rasool** and Shakeela Parveen, 2017. Genetic variation between hybrid (*Labeo rohita* ♂ × *Cirrhinus mrigala* ♀) AND *Labeo rohita* BY RAPD. 6th International Fisheries Symposium & Expo, Organized by UVAS, Punjab Fisheries Department & Pakistan Fishery Society, from 8-9 February, 2017 at Flatties Hotel, Lahore. *IFSE-2017-G-06*
 28. Khalid Javed Iqbal, Muhammad Ashraf, Arshad Javid, Noor Khan, Hamid Majeed, Farzana Abbas, Muhammad Hafeez-ur-Rehman, **Fayyaz Rasool**, Muhammad Altaf and Irfan, 2017. Digestive enzyme activities and haematology of *Labeo rohita* on different feed ingredients. 6th International Fisheries Symposium & Expo, Organized by UVAS, Punjab Fisheries Department & Pakistan Fishery Society, from 8-9 February, 2017 at Flatties Hotel, Lahore. *IFSE-2017-B-11*
 29. Tehmina Yaqoob, Noor Khan, **Fayyaz Rasool**, Khalid Javed Iqbal and Rafia Tayyab, 2017. Effect of phytase supplementation in formulated feeds for *Pangasius hypophthalmus* to increase the use of cotton seed meal by replacing fish meal. 6th International Fisheries Symposium & Expo, Organized by UVAS, Punjab Fisheries Department & Pakistan Fishery Society, from 8-9 February, 2017 at Flatties Hotel, Lahore. *IFSE-2017-B-14*
 30. Noor Khan, Usman Atique, Muhammad Ashraf, Ahmed Mustafa, Muhammad Sharif Mughal, **Fayyaz Rasool**, Hamda Azmat, Muhammad Tayyab and Khalid Javed Iqbal, 2017. Effect of various protein feeds on the growth, body composition, hematology and endogenous enzymes of catfish (*Pangasius hypophthalmus*) *IFSE-2017-B-30*
 31. Shahzad Ali, **Fayyaz Rasool**, Shamim Akhter, Qurban Ali, 2017. Pathogenic bacterial species associated with fish cultured in ponds fertilized by organic manure 6th International Fisheries Symposium & Expo, Organized by UVAS, Punjab Fisheries Department & Pakistan Fishery Society, from 8-9 February, 2017 at Flatties Hotel, Lahore. *IFSE-2017-C-08*
 32. Khalid Javed Iqbal, Muhammad Ashraf, Muhammad Shafiq Chaudhry, Arshad Javid, Noor Khan, Hamid Majeed, **Fayyaz Rasool**, Farzana Abbas, Muhammad Hafeez-ur-Rehman, Muhammad Altaf and Irfan, 2017. Effect of fishmeal and plant origin feed ingredients on digestive enzyme lipase activity and histology of *Labeo rohita*. 6th International Fisheries Symposium & Expo,

- Organized by UVAS, Punjab Fisheries Department & Pakistan Fishery Society, from 8-9 February, 2017 at Flatties Hotel, Lahore. *IFSE-2017-D-08*
33. Hamda Azmat, Nagina Amanat, Noor Khan, Arshad Javid, **Fayyaz Rasool**, Syed Makhdoom Hussain and Maryyum Khalil, 2017. Studies on acute toxicity of cadmium to fish, *Oreochromis niloticus*. 6th International Fisheries Symposium & Expo, Organized by UVAS, Punjab Fisheries Department & Pakistan Fishery Society, from 8-9 February, 2017 at Flatties Hotel, Lahore. *IFSE-2017-E-18(P)*
 34. Muhammad Afzal, Noor Muhammad and **Fayyaz Rasool**, 2017. Morphometric parameters assisted variations among the populations of *Cirrhinus mrigala* collected from Indus Riverine system of Pakistan. 6th International Fisheries Symposium & Expo, Organized by UVAS, Punjab Fisheries Department & Pakistan Fishery Society, from 8-9 February, 2017 at Flatties Hotel, Lahore. *IFSE-2017-F-01*
 35. **Fayyaz Rasool**, Shafat Hussain, Noor Khan, Shakeela Parveen, Tanveer Hussain, Hamda Azmat & Khalid Mehmood Anjum. December, 13-15th 2016. 13th International UMT Symposium, University of Malaysia Terengganu (UMTAS), Malaysia. (Session Chair + Oral Presentation) ATPase 6/8 gene assisted genetic variability studies among the population of *Labeo rohita*
 36. **Fayyaz Rasool**, Shakeela Parveen, Noor Khan and Naila Ata, February 16 – 18, 2016. Effect of ascorbic acid on survival and bacterial contents in the gut contents of *Oreochromis niloticus*. 36th Pakistan Congress of Zoology (International) Sindh University, Jamshoro.
 37. Shakeela Parveen, **Fayyaz Rasool**, and Mehwish Sharif February 16 – 18, 2016. Haematological profile of wild and farmed *Cirrhinus mrigala* (mori)” 36th Pakistan Congress of Zoology (International) Sindh University, Jamshoro
 38. **Fayyaz Rasool**, Shakeela Parveen, Noor Khan, Hamda Azmat and Naila Atta, 2015. Effect of Ascorbic Acid on Survival and Bacterial Contents in the Gut Contents of *Oreochromis Niloticus*. 96th Annual Conference of Research Workers in Animal Diseases to be held on December 6th-8th at the Downtown Marriott on the Magnificent Mile in Chicago, Illinois, USA.
 39. **Fayyaz Rasool**, Syed Shafat Hussain, Shakeela Parveen and Noor Khan, 2015. ATPase 6/8 Gene Assisted Genetic Variability Studies among the Populations of *Labeo rohita*. International Conference on Health, Medicine and Life Sciences, Hangzhou, China, December 10th-11th, 2015.
 40. **Fayyaz Rasool**, Naureen Aziz Qureshi and Shakeela Parveen, 2015. Agglomerative Hierarchical Clustering Based on Morphometric parameters of the Populations of *Labeo rohita*. Proceedings of 35th Congress of Zoology (International), held at Centre of Excellence in Marine Biology, University of Karachi, Karachi March 1 – 4, 2015. PZSP pp. 182
 41. Matiullah, Muhammad Sharif Mughal, Noor Khan, **Fayyaz Rasool**, Usman Atique, Abdur Rehman Azam and Ghulam Rabbani, 2015. Use of Black Pepper Seed as Growth Enhancer in *Labeo rohita*. Proceedings of 35th Congress of Zoology (International), held at Centre of Excellence in Marine Biology, University of Karachi, Karachi March 1 – 4, 2015. PZSP pp. 181
 42. **Fayyaz Rasool**, Syed Shafaat Hussain and Shakeela Parveen, 2015. ATPase 6/8 Gene Based Genetic Variability Studies Among different Populations of *Labeo rohita*. Proceedings of the 5th International Symposium “Fish Trade and Investment Opportunities” Held in Pearl Continental Hotel-Lahore, Organized by Department of Fisheries Punjab-Pakistan on 24th-25th February, 2015. IFSP pp. 59
 43. Shakeela Parveen, Uzma Zulfiqar and **Fayyaz Rasool**, 2015. Determination of Coliform and EPS Producing Bacteria in Fins and Scales of *Cirrhinus mrigala* cultured in brackish and freshwater ponds. Proceedings of the 5th International Symposium “Fish Trade and Investment Opportunities” Held in Pearl Continental Hotel-Lahore, Organized by Department of Fisheries Punjab-Pakistan on 24th-25th February, 2015. IFSP pp. 40
 44. Asma Nawab, Muhammad Hafeez-ur-Rehman, **Fayyaz Rasool**, Farzana Abbas and Shakeela Parveen, 2015. Nutritional status and organoleptic quality of value added fish products from carp,

Labeo rohita. Proceedings of the 5th International Symposium “Fish Trade and Investment Opportunities” Held in Pearl Continental Hotel-Lahore, Organized by Department of Fisheries Punjab-Pakistan on 24th-25th February, 2015. IFSP pp. 47

45. **Fayyaz Rasool**, Naureen aziz Qureshi and Shakeela Parveen, **2014**. Status of Indian major carp “*Labeo rohita*” in selected natural waters for its sustainable fishery in Punjab (Pakistan). Proceedings of the 1st International Conference on “Environment and Sustainable Development”. Held in Sustainable Development Study Centre, GC-University, Lahore-Pakistan on 16-17th December, 2014. ICESD pp. 46
46. Muhammad Sultan Haider, Muhammad Ashraf, Hamda Azmat, Sumaira Abbas, Fozia Bashir, Khalid Javed Iqbal, **Fayyaz Rasool**, Noor Khan, Muhammad Hafeez-ur-Rehman, Arshad Javaid and Muhammad Zia. **2014**. Effect of prepared acid silage on *Labeo rohita* fingerling growth and body composition. Proceedings of the 1st International Conference on “Environment and Sustainable Development”. Held in Sustainable Development Study Centre, GC-University, Lahore-Pakistan on 16-17th December, 2014. ICESD. pp. 30

MEMBERSHIP OF THE BOARD/COMMITTEE/ORGANIZATION/SOCIETY etc.

8. Secretary & Member Executive Council of the UVAS-Fisheries & Aquaculture Society (UVAS-FAS)
9. Member Scientific and Technical Committee & Editorial Review Board on Fisheries and Aquatic Sciences of World Academy of Science, Engineering and Technology, Conneticut, CT 06878, **USA**
10. Member working group on Fisheries and Aquaculture, “UVAS-INDUSTRY LIAISON”
11. Convener “QIRTAS” the Literary Society of UVAS, Lahore
12. Member Art & Literary Forum, UVAS, Lahore Member Department Board of Studies of Department of Fisheries and Aquaculture
13. Member to Faculty Board of Studies Faculty of Fisheries and Wildlife
14. Member Synopsis Scrutiny Committee Faculty of Fisheries and Wildlife

REVIEWER OF THE NATIONAL/INTERNATIONAL JOURNALS:

1. Molecular Biology Reports, An International Journal on Molecular and Cellular Biology, Published by Springer Link, Editor-in-Chief: Nilanjana Maulik, ISSN: 0301-4851 (print version), ISSN: 1573-4978 (electronic version), Journal no. 11033
2. Journal of Microbiology, Biotechnology and Food Sciences (JMBFS), published by the Faculty of Biotechnology and Food Sciences, University of Agriculture, Nitra-Slovakia. ISSN: 1338-5178
3. Pakistan Journal of Agricultural Sciences (PJAS), Published by University of Agriculture, Faisalabad-Pakistan
4. International Journal of Agricultural and Biology (IJAB), Published by University of Agriculture, Faisalabad-Pakistan
5. Aquaculture Research, ISSN:1365-2109, Published by John Wiley & Sons Ltd.
6. Journal of Applied Ichthyology, ISSN:1439-0426, Published by Wiley-VCH GmbH

PRODUCED STUDENTS:

Sr. No.	Name	Year	Status	Class
1.	Amina Ayub	2017-20	Passed	PhD
2.	Kashif Manzoor	2019-22	Passed	PhD
3.	Matiullah	2018-21	Passed	PhD
4.	Ghulam Rabbani	2018-21	Passed	PhD
5.	Saima Ashraf	2021-24	Under Supervision	PhD
6.	Shahid Mahmood	2020-23	Under Supervision	PhD
7.	Syed Ahsan Abbas	2021-23	Under Supervision	MPhil
8.	Babar Ali	2021-23	Under Supervision	MPhil
9.	Abid Fareed	2021-23	Under Supervision	MPhil
10.	Muhammad Azim	2019-21	Passed	MPhil
11.	Tabinda Ilyas	2020-22	Passed	MPhil
12.	Hira Shamshad	2020-22	Passed	MPhil

13.	Ibrar Younis	2019-21	Passed	MPhil
14.	Sadaf Kausar	2019-21	Passed	MPhil
15.	Syed Mehtab Hassan Shah	2019-21	Passed	MPhil
16.	Kinza Asghar	2019-21	Passed	MPhil
17.	M. Irfan Khalid	2019-21	Passed	MPhil
18.	Iqra Nasir	2018-20	Passed	MPhil
19.	Zeeshan Ashraf	2018-20	Passed	MPhil
20.	Abdul Rehman	2018-20	Passed	MPhil
21.	Shahid Mahmood	2018-20	Passed	MPhil
22.	Talha Zulfiqar	2017-19	Passed	MPhil
23.	Kashif Manzoor	2016-18	Passed	MPhil
24.	Mahrukh Butt	2016-18	Passed	MPhil
25.	Faiza Ijaz	2016-18	Passed	MPhil
26.	Sadia Nazir	2016-18	Passed	MPhil
27.	Bazgha Nausheen	2016-18	Passed	MPhil
28.	Ayesha Sarwar	2016-18	Passed	MPhil
29.	M. Naveed Aslam	2016-18	Passed	MPhil
30.	Ghulam Rabbani	2015-17	Passed	MPhil
31.	Beloul Abbas	2015-17	Passed	MPhil
32.	M. Afzaal	2017	Passed	Master
33.	Allena Tahir	2017	Passed	Master
34.	Aqsa Saleem	2017	Passed	Master
35.	Abdul Rehman	2017	Passed	Master
36.	Faiqa Zulfiqar	2017	Passed	Master
37.	Huda Zahid	2017	Passed	Master
38.	Iqra Talib	2017	Passed	Master
39.	Taiba Mansha	2017	Passed	Master
40.	Noor Mohammad	2016	Passed	M.Phil.
41.	Laraib Zulfiqar	2015	Passed	Master
42.	Ayesha Sarwar	2015	Passed	Master
43.	Waseem Arshad	2015	Passed	Master
44.	Naila Atta	2015	Passed	Master
45.	Nafeesa Mushtaq	2015	Passed	Master
46.	Anam Alam	2015	Passed	Master
47.	Sania Nawaz Khan	2015	Passed	Master
48.	Syed Shafaat Hussain	2014	Passed	M.Phil.
49.	M. Haseeb-ur-Rehman	2014	Passed	Master
50.	Ayaz Alam	2014	Passed	Master
51.	M. Ali Asghar	2014	Passed	Master
52.	Abdul Sattar	2013	Passed	Master
53.	M. Zahoor	2013	Passed	Master
54.	M. Naveed Aslam	2013	Passed	Master

Training under Faculty Exchange Program:

1. Training at Centre for Sustainable Aquaculture Research, University of Wales Swansea, South Wales; Study of Artificial Breeding of Salmon & Trout at Environment Agency Hatchery, Bracon Study of Wetlands Centre, Lanelli, Visit of CEFAS, Fish Health Laboratories, Wyemouth, Visit of National Botanical Garden of Wales, **University of Wales Swansea U.K., June, 2007**

2. MEVLANA Faculty Exchange Program at AtaTurk University, **Turkey September 2017**

CONFERENCES/WORKSHOPS/SEMINARS ORGANIZED

1. One Day Seminar on “World Fisheries Day” 25th November, 2021. Organized by Department of Fisheries & Aquaculture, UVAS, Ravi Campus, Pattoki (**Organizer**)
2. One Day International Webinar “Modern Techniques in Aquaculture: Perlis & Potentials” on 16th November, 2021. Department of Fisheries & Aquaculture, UVAS, Ravi Campus, Pattoki (**Organizer**)
3. One Day International Webinar “Aquatic Toxicology: Impacts, Assessment and Remediation” on 5th November, 2021. Department of Fisheries & Aquaculture, UVAS, Ravi Campus, Pattoki (**Organizer**)
4. One Day International Webinar “Aquaculture Disease & Health Management” Department of Fisheries & Aquaculture, UVAS, Ravi Campus, Pattoki (**Organizer**)
5. One Day International Seminar on “Awareness about the Novel Corona Virus (2019-nCoV) and the Corona Virus Disease (COVID-19). 11th April, 2020. Organized by Faculty of Fisheries & Wildlife, UVAS. (**Organizing Secretary**)
6. One Day Seminar on “World Fisheries Day” 23rd November, 2020. Organized by Department of Fisheries & Aquaculture, UVAS, Ravi Campus, Pattoki (**Organizer**)
7. One Day Seminar on “World Fisheries Day” November, 2019. Organized by Department of Fisheries & Aquaculture, UVAS, Ravi Campus, Pattoki (**Organizer**)
8. One Day Seminar on Growth & Breeding Potential of Genetically Male Tilapia (GMT) in Pakistan, 16, August, 2018 Organized by Department of Fisheries & Aquaculture, UVAS UNDER USPCAS-AFS PROJECT (**Chief Organizer**)
9. One Day Seminar on “World Fisheries Day” 26th November, 2018. Department of Fisheries & Aquaculture & U.S. Soybean Export Council, UVAS-Lahore (**Organizing Secretary**)
10. One Day seminar on “World Fisheries Day” 24th November, **2017**. Department of Fisheries & Aquaculture, UVAS-Lahore (Organizing Secretary)
11. 6th International Fisheries Symposium & Expo, 8-9 February, 2017, Organized by Department of Fisheries & Aquaculture, UVAS, Lahore
12. One Day seminar on “World Fisheries Day” 21st November, **2016**. Department of Fisheries & Aquaculture, UVAS-Lahore (Organizing Secretary)
13. One Day Workshop/Hands-on-Training “Advanced Molecular Techniques Used in Fisheries & Wildlife Research, 1st September, **2016** UVAS-Ravi Campus Pattoki (Chief Organizer)
14. 2-Day Hands-on-Training on Ostrich Farming organized by Department of Wildlife & Ecology & Pakistan Ostrich Company, 20-21 April, **2016** at UVAS Ravi Campus Pattoki (Mmember Organizing Committee)
15. Organization of Spring Festival, **2016** at Ravi Campus Pattoki (Member Organizing Committee as Convener QIRTAS Society)
16. In-Service Short-Term Training of University Faculty, 1-5 August, **2016**. Organized by Faculty of Fisheries & Wildlife, UVAS Ravi Campus, Pattoki
17. One Day seminar on “World Fisheries Day” 24th November, **2015**. Department of Fisheries & Aquaculture, UVAS-Lahore (Organizing Secretary)
18. 3-Days Hands on Training “Butterflies/Insects Collection & Preservation Techniques” 4th-6th November, 2015
19. World Fish Day on November 23rd, 2012. Department of Fisheries and Aquaculture, Faculty of Fisheries and Wildlife, UVAS-Lahore.
20. Certificate Training Course on Sustainable Wetlands Management, February 27th-March 1st, 2012, Pakistan Wetlands Program-GCUF-Faisalabad.
21. Certificate Training Course on Sustainable Wetlands Management, 2nd-10th August, 2010, Pakistan Wetlands Program-UVAS-Lahore.
22. Scientific Design, Data Analysis & Publication, 4th-6th May, 2010, Department of Wildlife and Ecology, Faculty of Fisheries and Wildlife, UVAS-Lahore.

23. Education for Wildlife Sustainability, 30th-31st, January, 2008, Department of Wildlife and Ecology, Faculty of Fisheries and Wildlife, UVAS-Lahore.
24. International Video Conference “Fish Breeding & Genetics” in HEC-BC Link between UVAS & UWS on 28th June, 2007, Department of Fisheries and Aquaculture, Faculty of Fisheries and Wildlife, UVAS-Lahore.
25. International Conference on “Solving Problems of Fresh Water Fish Farming in Pakistan” From 27th-28th November, 2006, Department of Fisheries and Aquaculture, Faculty of Fisheries and Wildlife, UVAS-Lahore.

CONFERENCES/WORKSHOPS/SEMINARS ATTENDED:

NATIONAL:

26. One Day International Seminar “Wildlife in Pakistan: Challenges & Conservation Strategies” On 4th November, 2021. **(Participant)**
27. Webinar “Techniques in Paleontology” Organized by Department of Wildlife & Ecology, UVAS Lahore on 2nd February, 2021. **(Participant)**
28. Internal Online Conference on “Post Pandemic Ecological Sustainability: Challenges and Role of IT. October 6&7, 2020. Organized by Department of Biology & Department of Bioinformatics & Computational Biology Virtual University of Pakistan. **(Participant)**
29. One Day International Symposium/Webinar on “World Fisheries Day” Support Sustainable Fishing & Fisheries Conservation. Saturday, 21st November, 2020. Organized by Department of Zoology, University of Education, Lahore **(Participant)**
30. One Day Seminar/Webinar on “Applications of CRISPER Gene Editing Tool in Animals, Fungi and Plants” December 28, 2020. Organized by Department of Biological Sciences, UVAS, Ravi Campus, Pattoki. **(Participant)**
31. One Day Seminar/Webinar on “Molecular Phylogenetic & Its Applications” December 29, 2020. Organized by Department of Biological Sciences, UVAS, Ravi Campus, Pattoki. **(Participant)**
32. A one-day short training course for aquafeed processing professionals “Aquafeed Extrusion” Hosted by Tuti Tan at Abu Dhabi from 05th February, 2018 **(Attended)**
33. One Day Seminar on Aquaculture; Challenges and Opportunities in Pakistan, Organized by Department of Zoology, Wildlife & Fisheries, University of Agriculture, Faisalabad **(Session Chair/Participant)**
34. One day Training Workshop on “Techniques for Species conservation and monitoring for Ecosystem Health” 20th April, 2018 organized by Department of Wildlife & Ecology, University of Veterinary & Animal Sciences **(Attended)**
35. One day Workshop on “Laboratory Biosafety and Biosecurity” 4th May, 2018 jointly organized by ASM International Student Chapter at UVAS, Ravi Campus & American Society for Microbiology, USA **(Attended)**
36. One day Hands on Training Workshop on “Recycling of Domestic Wastes into Organic Fertilizer using Compost Bins” 23rd November, 2018 organized by Department of Wildlife and Ecology, University of Veterinary and Animal Sciences **(Attended)**
37. One Day Workshop on “Mushroom Cultivation” 28th December, 2018 organized by Department of Botany Faculty of Fisheries and Wildlife, University of Veterinary and Animal Sciences, Ravi Campus, Pattoki, Pakistan **(Attended)**
38. International Fisheries & Aquaculture Conference (IFAC-2019, January 30-31, 2019, Flatties Hotel Lahore, organized by Department of Fisheries & Aquaculture, UVAS-Lahore **(Organizer)**
39. International Fisheries & Aquaculture Conference (IFAC-2019, January 30-31, 2019, Flatties Hotel Lahore, organized by Department of Fisheries & Aquaculture, UVAS-Lahore **(Oral Presentation)**

40. One Day Hands on Training Workshop on Techniques for Wet & Dry Preservation Methodologies for Museum Specimen, March 6, 2019, Organized by Department of Wildlife & Ecology AND Fisheries & Aquaculture, UVAS-RC, Pattoki **(Participation)**
41. One Day Training Workshop on Basic Bioinformatics Tools for Functional Genomics, July 5, 2019. Organized by Department of Biological Sciences, UVAS-RC, Pattoki **(Participation)**.
42. One Day Seminar on “World Fisheries Day” 21st November, 2019. Department of Fisheries & Aquaculture & U. S. Soybean Export Council, UVAS-Lahore **(Organizer)**
43. One-Day Training Workshop on “Mushroom Cultivation Techniques” November 29, 2019. Organized by Department of Biological Sciences, UVAS-RC, Pattoki **(Participation)**.
44. 2nd International Conference on Applied Zoology, Department of Zoology, Government College University Faisalabad, Pakistan, December 19-20, 2019 **(Oral Presentation)** Resource Person at One Day Seminar on “Water Quality Management” organized by Abdus Salam School of Sciences, Nusrat Jahan College, Chenab Nagar, District Chiniot, September, 2017
45. Resource Person at One Day Seminar on “Fish Culture / Commercial Fish Farming” organized by Abdus Salam School of Sciences, Nusrat Jahan College, Chenab Nagar, District Chiniot September, 2017
46. One day workshop on LATEX, 25-26 April, 2017 organized by IT Centre UVAS, Lahore
47. One Day Hands-on-Training, Laboratory Biosafety, November 3, **2016** organized by Department
48. of Wildlife & Ecology UVAS and American Society for Microbiology YA to Pakistan
49. University of Agriculture-Expo from 5-7th November, **2016**
50. Workshop on “Up-Gradation of Modules in Molecular Genetics and Genomics” on 19th March, **2015**. By University of Veterinary and Animal Sciences, Lahore in Collaboration with British Council INSPIRE Transnational Education Partnership Programme
51. 2-Days Hands on Training “Zoo Animals Keeping, Zoonosis & Bio-safety Measures” 27th-28th August, 2015
52. Training of Presiding Officers & Senior Assistant Presiding Officers Local Govt. Elections, Punjab-2015
53. National Conference on “Cutting-Edge Techniques in Molecular Research” 12th March, **2015**, Organized by Institute of Biochemistry and Biotechnology, University of Veterinary and Animal Sciences, Lahore
54. “Project Formulation Workshop” March 27th-28th, **2014**. Organized by PSF-UVAS under Pak-US Natural Sciences Linkage Program.
55. Certificate Training Course on Sustainable Wetlands Management, February 27th-March 1st, **2012**, Pakistan Wetlands Program-GCUF-Faisalabad.
56. World Fish Day on November 23rd, **2012**. Organized by Department of Fisheries and Aquaculture, Faculty of Fisheries and Wildlife, UVAS-Lahore.
57. Two days national workshop on “Molecular Diagnostics” January 11th-12th, **2011**. Organized by IBBT-UVAS, Lahore
58. “Monitoring and Evaluation of Wetlands” 25th-26th February, **2010**, Pakistan Wetlands Program-Islamabad.
59. “Scientific Design, Data Analysis & Publication” 4th-6th May, **2010**, UVAS-Lahore.
60. “Certificate Training Course on Sustainable Wetlands Management” 2nd-10th August, **2010**, Pakistan Wetlands Program-UVAS-Lahore.
61. “Professional Competency Enhancement Program for Teachers-I” 23rd-27th August, **2010**, HEC-UVAS, Lahore.
62. “Professional Competency Enhancement Program for Teachers-II” 28th September-1st October, **2010**, HEC-UVAS, Lahore.
63. Animal Forensics: DNA Fingerprinting, September 21st -22nd, **2010**, by IBBT-UVAS, Lahore.
64. Development of sustainable and collaborative research networks talented researcher exchange program-INSPIRE-Pakistan, January **2010**, UVAS Lahore.

65. Professional Competency Enhancement Program for Teacher at UVAS, Lahore arranged by HEC-Pakistan from 2nd February-3rd March, **2010**
66. 6th Annual National Training Courses on Modern Techniques in Biotechnology, 5th -9th May, **2008**, NIBGE-Faisalabad.
67. 4th National Symposium on Fisheries, 18th -19th March, **2009**, Department of Fisheries Punjab-Lahore.
68. “Managing Research Projects; The Effective Ways” 19th-20th August, **2009** by PARB at UVAS-Lahore.
69. Training of Trainers in Wetlands Management, 30th December, **2008**-9th January, **2009**, Pakistan Wetlands Program-Islamabad.
70. “Education for Wildlife Sustainability” 30th-31st, January, **2008**, UVAS-Lahore.
71. National Conference Prion Diseases: A Threat to Livestock and Humans in Pakistan, 20th May, **2008**, UVAS-Lahore.

INTERNATIONAL:

72. A series of Seminars at AtaTurk University, Turkey in Mevlana Academic Exchange Program from 1-15 October, 2017
73. One day short course on “Aquaculture Extrusion” at Abu Dhabi, United Arab Emirates, 05 February, 2018
74. 37th Congress of Zoology (International), held at Govt. College University, Faisalabad, March 1–4, **2017**.
75. 6th International Fisheries Symposium & Expo, 8-9 February, 2017, Organized by Department of Fisheries & Aquaculture, UVAS, Lahore
76. 36th Pakistan Congress of Zoology (International) Sindh University, Jamshoro, February 16 – 18, **2016**.
77. Food Safety & Halal Standards Compliance Management Certificate Training Workshop at 5th International Halal Conference & Exhibition **2016**, Organized by Punjab Halal Development Agency. April 13, 2016, Faleti’s Hotel Lahore-Pakistan
78. 5th International Halal Conference & Exhibition **2016**, Organized by Punjab Halal Development Agency. April 12 & 13, 2016, Faleti’s Hotel Lahore-Pakistan
79. 35th Congress of Zoology (International), held at Centre of Excellence in Marine Biology, University of Karachi, Karachi March 1 – 4, **2015**.
80. 13th International UMT Symposium, University of Malaysia Terengganu (UMTAS), Malaysia, 13-15th December, 2016. (Session Chair + Oral Presentation)
81. 5th International Symposium “Fish Trade and Investment Opportunities” Held in Pearl Continental Hotel-Lahore, Organized by Department of Fisheries Punjab-Pakistan on 24th-25th February, **2015**.
82. 1st International Conference on “Environment and Sustainable Development”. Held in Sustainable Development Study Centre, GC-University, Lahore-Pakistan on 16-17th December, **2014**.
83. “Two days “Feeding Pakistan 1st Aquaculture Conference” (Small Trade Show & Scientific Poster Display) from 2-3 April, **2014** at Pearl Continental Hotel, Lahore organized by University of Veterinary and Animals Sciences Lahore-Pakistan and Pakistan Soybean Association and supported by WiSHH, Kansas State University, SoyPak, USDA, ASA, WAS, FAO and UVAS, Lahore-Pakistan
84. Two days International conference on Food Safety and HACCP from January 10th-11th, **2012**, delivered a Lecture. Organized by Department of Food and Nutrition, GC-University Faisalabad.
85. International conference on Fisheries, Delivered a Lecture, January 12th, **2012** organized by Department of Zoology, GC-University Faisalabad.
86. “*Professional Instructor Skills Development*” Afghanistan-Pakistan-USA Tri-Lateral Commission Training Program in Support of Capacity Development for Agricultural Trade in the Islamic Republic of Afghanistan and Islamic Republic of Pakistan, 11th-16th, July, **2011** by USDA/FAS Delivered by University of Idaho-USA and University of Agriculture-Faisalabad at UAF.

87. ***“Good Agricultural Practices”*** Afghanistan-Pakistan-USA Tri-Lateral Commission Training Program in Support of Capacity Development for Agricultural Trade in the Islamic Republic of Afghanistan and Islamic Republic of Pakistan, 18th July, **2011** by USDA/FAS Delivered by University of Idaho-USA and University of Agriculture-Faisalabad at UAF.
88. ***“Hygiene: Good Manufacturing Practices and Sanitation Standard Operating Procedures”*** Afghanistan-Pakistan-USA Tri-Lateral Commission Training Program in Support of Capacity Development for Agricultural Trade in the Islamic Republic of Afghanistan and Islamic Republic of Pakistan, 19th -20th July, **2011** by USDA/FDA Delivered by University of Idaho-USA and University of Agriculture-Faisalabad at UAF.
89. ***“HACCP and HACCP Plans”*** Afghanistan-Pakistan-USA Tri-Lateral Commission Training Program in Support of Capacity Development for Agricultural Trade in the Islamic Republic of Afghanistan and Islamic Republic of Pakistan, 21st-23rd, July, **2011** by USDA/FAS Delivered by University of Idaho-USA and University of Agriculture-Faisalabad at UAF.
90. ***“Certified Professional Instructor”*** Afghanistan-Pakistan-USA Tri-Lateral Commission Training Program in Support of Capacity Development for Agricultural Trade in the Islamic Republic of Afghanistan and Islamic Republic of Pakistan, 10th November, **2010** by USDA/FAS Delivered by University of Idaho-USA and University of Agriculture-Faisalabad at UAF.
91. International Video Conference “Fish Breeding & Genetics” in HEC-BC Link between UVAS & UWS on 28th June, **2007**, UVAS-Lahore.
92. International Conference on “Solving Problems of Fresh Water Fish Farming in Pakistan” From 27th-28th November, **2006**, UVAS-Lahore.