

PERSONAL DATA

Husband's Name: Dr. Fayyaz Rasool
Date of Birth: 04/08/1981
Marital Status: Married
C.N.I.C. 33203-1342231-6

ACADEMIC QUALIFICATION:	DEGREE	BOARD/INSTITUTE	YEAR
	MATRIC	FAISALABAD	1997
	FSc	FAISALABAD	2000
	B. Sc.	PU, LAHORE	2002
	M. Sc.	UAF	2004
	MPhil	UAF	2006
	PhD	UAF	2020

Professional Experience**AUGUST 3RD, 2007, TO DATE**

Department of Zoology, Fisheries & Wildlife, University of Agriculture, Faisalabad

Designation: Lecturer

Responsibilities: Teaching Zoology and Fisheries Courses to Undergraduate, Master and Postgraduate Programs of Zoology. Fisheries Courses to Pre-Agriculture, DVM and Other Short Course Conducted by the Continuing Education & Extension Department of the University and also Responsible for Research Projects of the Undergraduate, Master and Postgraduate Students under Supervision. Official Duties as Tutor, Co-Tutor and Assistant Superintendent from time to time.

21st July 2014 to 20th July 2018

Department of Fisheries & Aquaculture, UVAS, Lahore

Designation: Lecturer (Deputation)

Responsibilities: Teaching of Different Courses to Undergraduate, Master and Postgraduate classes related to Zoology & Fisheries and Research supervision of the Undergraduate, Master and Postgraduate Students in the field of Fish Nutrition & Fish Microbiology

Research Conducted:

1. PARC-ALP Research Project No. AS-139 "Genetic Characterization & Genetic Improvement of *Labeo rohita* through Nutrigenomics" amounting Rs. 2.6432, Duration, 2020-2022 (**Co-PI**)
2. Effect of varying species ratios of *Catla catla* and *Hypophthalmichthys molitrix* on the fish production in composite culture, **2004 (M. Sc. Dissertation)**
3. Effect of different levels of supplementary feed on the growth performance of common carp (*Cyprinus carpio*) in monoculture rearing pond system, **2006 (M. Phil. Dissertation)**
4. Substitution of animal proteins with plant proteins fed to *Labeo rohita* and *Cirrhinus mrigala* and their effect on growth and carcass composition, **2020 (PhD Dissertation)**

Students Produced:

Sr. No.	Student Name/Reg#	Degree	Session	Topic of Dissertation
1	Behlol Abbas	PhD	2021-24	Prevalence, molecular characterization and antibiotic resistance in <i>Flavobacterium columnare</i> isolated from farmed cyprinids chichlids in Punjab, Pakistan

2	Manzoor Hussain	PhD	2021-24	Surveillance, Characterization and Antibiotic Resistance Index of <i>Pseudomonas</i> spp. isolated from farmed major carps in Punjab, Pakistan
3	Arooj	PhD	2023-26	Synopsis Writing
4	Kiran Fatima Niazi	PhD	2025-28	Coursework continues
5	Zeeshan Ashraf 23-UE-10308	PhD Co-Supervisor	2024-27	Notified
6	Muhammad Moavia 23-UE-10310	PhD Co-Supervisor	2024-27	Notified
7	Amna Abbas 2017-ag-862	PhD Co-Supervisor	2022-25	Evaluation of antibiotics mediated toxicity in major carps
8	Nudrat Aslam 2015-ag-267	PhD Co-Supervisor	2021-24	Evaluation of graded levels of functional feed on immune competency, enzymatic profile, flesh quality and growth status of <i>Labeo rohita</i>
10	Kaynat Saeed 2014-ag-1736	PhD Co-Supervisor	2020-24	Effect of different feed additives on the growth and hematology of major carps at various temperatures
11	Andleeb Zahra 2017-ag-847	PhD Co-Supervisor	2021-24	The impact of varying stocking density on growth, hematology, stress markers and gut microbiota in Nile tilapia (<i>Oreochromis niloticus</i>) in biofloc culture system
12	Savera Shafiq 22-UE-05289	MPhil Co-Supervisor	2024	Evaluation of mealworm powder as a growth enhancer for Rohu (<i>Labeo rohita</i>)
13	Saba-Tul-Ain 18-UE-2665	MPhil Co-Supervisor	2024	Molecular Identification and Phylogenetic Analysis of Saul (<i>Channa marulius</i>) from Satluj River
14	Madiha Hayat 22-UE-05293	MPhil Co-Supervisor	2024	Efficacy of Orange peel powder on the growth performance and hematology of Rohu (<i>Labeo rohita</i>) Fingerlings
15	Muham mad Ahmad 2019-ag-5998	MPhil	2025	<i>Dietary administration of fennel seed and it's combination with probiotics on microbial status of labeo rohita and hypophthalmichthys molitrix</i>
16	Sadia Habib 2019-ag-6965	MPhil	2025	Microbial analysis of <i>Labeo rohita</i> and <i>Cirrhinus mrigala</i> after dietary administration of black cardamom

				(<i>Amomum sublatum</i>) of different percentages.
17	Rabia Nazir 2019-ag- 6979	MPhil	2025	Potential role of dried Fenugreek seeds supplemented diet on growth performance, feed utilization and survival of <i>Hypophthalmichthys molitrix</i> and <i>Oreochromis niloticus</i> .
18	Aliza Aleem 2019-ag- 6997	MPhil	2025	Comparative study on the efficacy of plant originated feed, <i>Zingiber officinale</i> (Ginger), as immunostimulant and growth promotor in <i>Labeo rohita</i> and Nile tilapia
19	M. Afzaal 2019-ag- 7018	MPhil	2025	Efficacy of flaxseed on growth immunity and intestinal microbiota of <i>Cirrhinus mrigala</i> .
20	Iqra Mushtaq 2019-ag- 7024	MPhil	2025	Impact of white mulberry (<i>Morus alba</i>) leaves on microbiota and immunomodulation of <i>Labeo rohita</i>
21	Ahmad Hassan 2019-ag- 7078	MPhil	2025	Turmeric powder, <i>Curcuma longa</i> L., in <i>Cirrhinus mrigala</i> diet: growth, Immunity and Intestinal microbial composition
22	Rukhma Nusrat 2019-ag- 7114	MPhil	2025	Curcumin and Garlic (<i>Allium Sativum</i>) powder impact on Grass carp and Tilapia immunity, antioxidant property and blood profile
23	Eman Saif Ullah 2023-ag- 984	MPhil	2025	<i>Effect of fenugreek seeds on microbial composition of rohu and Mrigala</i>
24	Unza Shar 2023-ag- 992	MPhil	2025	Effect of oral administration of <i>Morus alba</i> L. powder on gut microbiota and survival indices of <i>Hypophthalmichthys molitrix</i>
25	Navera Ahmed 2023-ag- 1014	MPhil	2025	Evaluation of Button mushroom feed on Haemato- biochemical and gut health of <i>Labeo rohita</i>
26	Aiza Munawer Ali 2023-ag- 1015	MPhil	2025	<i>Effect of Fructooligosaccharide (FOS) and Xylooligosaccharide (XOS) on growth and hematology of Hypophthalmichthys molitrix</i>
27	Sakina Kafait 2023-ag- 1025	MPhil	2025	Microbial and Growth Modulation in <i>Hypophthalmichthys molitrix</i> Fed with Cassava Leaf-Enhanced Diets.

28	Minahil Saif Ullah 2023-ag- 1040	MPhil	2025	Impact of dietary inclusion of Neem leaves on growth and health status of silver carp
29	Sadia Maqbool 2023-ag- 1054	MPhil	2025	Comparative Analysis of Dietary Cinnamon (<i>Cinnamomum verum</i>) on Immunomodulation and Growth Parameters of Mrigal Carp (<i>Cirrhinus mrigala</i>)
30	Naila Mukhtar 2023-ag- 1055	MPhil	2025	Synergistic effect of prebiotic (FOS) and probiotic (<i>Lactobacillus</i>) on growth performance and gut health of rohu
31	Sonia Arshad 2023-ag- 1056	MPhil	2025	<i>Multistrain probiotic and probiotic fiber blends effect on fish growth and gut and water quality</i>
32	Ragheeba Akram 2023-ag- 1064	MPhil	2025	Evaluating <i>Nannochloropsis</i> and <i>tetraselmis chuii</i> on growth, skin pigmentation and water quality parameters of <i>hypophthalmichthys molitrix</i>
33	Sawera 2023-ag- 1093	MPhil	2025	Effect of <i>Spirulina platensis</i> on microbial and skin pigmentation of shubunkin fish
34	Muhammad Ahmad 2019-ag- 2747	MPhil	2024	Effect of roselle anthocyanin extract on gut microbiota and immune response in <i>cyprinus carpio</i> and <i>ctenopharyngodon idella</i>
35	Muhammad Haroon 2022-ag-1492	MPhil	2024	Changes in gut microbiota, hematological parameters and immune response following dietary administration of <i>pleurotus ostreatus</i> in <i>hypophthalmichthys molitrix</i>
36	Zunaira Jamal 2022-ag-1577	MPhil	2024	Comparison of astaxanthin and fucoxanthine on gut microbiota and skin pigmentation of <i>cyprinus carpio</i>
37	Kiran Fatima Niazi	MPhil	2024	Efficacy of <i>calotropis gigantea</i> and <i>azadirachta indica</i> on microbial pathogens and growth performance of <i>carassius auratus</i>
	2022-ag-1508			
38	Kunzan Fatima	MPhil	2024	Impact of alkaline phosphatase on gut microbiota and growth performance of <i>cyprinus carpio</i>
	2022-ag-1509			

39	Areeha Fatima	MPhil	2024	Effect of soybean meal on growth and hematological parameters of <i>labeo rohita</i> and <i>ctenopharyngodon idella</i>
	2022-ag-1591			
40	Zoha Fatima Shahid	MPhil	2024	Isolation of tannase producing microbiota from the gastrointestinal tract of rohu (<i>labeo rohita</i>) and tilapia (<i>oreochromis niloticus</i>)
	2022-ag-1615			
41	Sadia Parveen	MPhil	2024	Influence of nutritional emulsifier supplementation on growth, feed utilization and microbial communities of <i>catla catla</i>
	2022-ag-1585			
42	Aneela Nazir	MPhil	2024	Effect of grape seed extract on growth, blood parameters and immunity of <i>ctenopharyngodon idella</i> and <i>carassius auratus</i>
	2022-ag-1594			
43	Orba	MPhil	2024	Evaluation of growth performance and microbial composition of <i>hypophthalmichthys molitrix</i> in response to the consumption of dietary <i>aspergillus oryzae</i> and baker's yeast
44	Sumbal	MPhil	2024	Effect of dietary marine yeast and <i>saccharomyces cerevisiae</i> on microbial composition and immune response of <i>cyprinus carpio</i>
45	Aqsa Ameen 2022-ag-1634	MPhil	2024	Effect of banana peel powder and cocoa husk on growth performance, microbial communities and pigmentation in <i>carassius auratus</i> and <i>catla catla</i>
46	Rafia Naeem 2022-ag-1627	MPhil	2024	Screening of protease producing bacteria from gastrointestinal tract of <i>oreochromis niloticus</i>
47	Barira Rashid 2022-ag-1632	MPhil	2024	Changes in gastrointestinal microbiota and haematology of <i>cyprinus carpio</i> following consumption of resveratrol
48	Amara	MPhil	2024	Effect of dietary inulin and lactic acid bacteria on gut microbiome and immune response in <i>oreochromis niloticus</i>

49	Shamsa Saleem	MPhil	2024	Influence of faba bean supplementations on microbial composition and hematological parameters of <i>hypophthalmichthys molitrix</i>
50	Amina Shahid	MPhil	2024	Impact of photosynthetic algae on water quality and microbial composition of <i>ctenopharyngodon idella</i>
51	Ifrah Mustafa	MPhil	2024	Effect of carrot flour on pigmentation and blood parameters of <i>catla catla</i> and <i>cyprinus carpio</i>
52	Husna Bashir	MPhil	2024	Ameliortion of growth performance and immune system of <i>labeo rohita</i> using taraxacum extract and rutin
53	Shumail Ijaz	MPhil	2024	Impact of <i>ananans comosus</i> leaf powder on gut itrobiota and heatology of <i>ctenopharyngodon idella</i> and <i>cyprinus carpio</i>
54	Tehreem Fatima	MPhil	2024	Role of dietary bifidobacteria on gut microbiota and growth performance in <i>labeo rohita</i>
55	Tehreem Safdar	MPhil	2024	Role of probiotic <i>rodopseudomonas palustris</i> as growth promoter in <i>labeo rohita</i> and <i>hypophthalmichthys molitrix</i>
56	Rubab Anees	MPhil	2024	Evaluation of growth performance and blood performance of <i>catla catla</i> feed dietary <i>spirulina</i>
57	Rakshanda Tariq 2022-ag-1564	MPhil	2024	Comparison of different strains of bacteria in major carps cultured in earthen ponds
58	Sana Abid 2022-ag-1552	MPhil	2024	Total bacterial count in farmed-raised fish and marketed fish in district faislabad
59	Anam Ashfaq	MPhil	2024	Microbial evaluation of frozen and salted fish samples collected from district faisalabad
60	Mehwish Ali	MPhil	2024	Effect of amla fruit extract on growth and immune response of <i>labeo rohita</i> and <i>hypophthalmichthys molitrix</i>
61	Farwa Batool	MPhil	2024	Microbial analysis of traditional salted fish and farm raised fish in district faisalabad
62	Savera Shafiq	MPhil	2024	Evaluation of mealworm powder as a growth enhancer for rohu (<i>labeo rohita</i>)
	22-UE-05289			

63	Saba-Tul-Ain	MPhil	2024	Molecular identification and phylogenetic analysis of saul (<i>channa marulius</i>) from satluj river
	18-UE-2665			
64	Madiha Hayat 22-UE-05293	MPhil	2024	Efficacy of orange peel powder on the growth performance and hematology of rohu (<i>labeo rohita</i>) fingerlings
65	Farwah Fazal	MPhil	2023	Efficacy of rose petal meal extract on the bacteri a of buccal cavity of common carp (<i>cyprinus carpio</i>)
66	Ayesha Zia	MPhil	2023	Use of sea weeds as iridophore enhancers in <i>cyprinus carpio</i>
67	Abubakar Hafeez	MPhil	2023	Effect of beta-cryptoxanthin on immunology of nile tilapia (<i>oreochromic niloticus</i>)
68	Farah Sajjad	MPhil	2023	Determination of eps bacteria on the skin, fins and sales of major carps in earthen ponds
69	Jawaria Mehmood	MPhil	2023	Effect of chia husk on gut microbiota of <i>ctenopharyngodon idella</i> and <i>hypophthalmichthys molitrix</i>
	2021-ag-1408			
70	Muhammad Usama Rasheed	MPhil	2023	Comparison of natural and synthetic pigments on coloration and gut microbiota of <i>oreochrromis niloticus</i> .
71	Shanza Nadeem	MPhil	2023	Effect of crocus sativus on immunology and pigmentation of <i>cyprinus carpio</i>
72	Kainat 2021-ag-1522	MPhil	2023	Determination of coliform and <i>escherichia coli</i> bacteria in water and major carps cultured in earthen ponds
73	Amna Anees 2021-ag-1541	MPhil	2023	Comparison of leutien and lycopene in the coloration and immunology of grass carp
74	Hafiza Umm-ul- Khair Fatima	MPhil	2023	Effect of chia seed on the immunology of <i>labeo rohita</i> and <i>cirrhinuss mrigala</i>
	2021-ag-1440			
75	Sheeba Yousaf	MPhil	2023	Beneficial effect of zeaxanthin on gut microbiota of <i>labeo rohita</i> anf <i>cyprinus carpio</i>
	2021-ag-1496			

76	Fatima Shahzadi	MPhil	2023	Effect of dietary chitosan and bacillus subtilis on immunity and intestinal microbiota of <i>cyprinus carpio</i>
	2021-ag-1510			
77	Abida Khalid	MPhil	2023	Effect of rose petal meal and supplementary feed on gut microbiota and histology of <i>oreochromis niloticus</i>
	2021-ag-1516			
78	Fatima Ayyaz	MPhil	2023	Comparison of alpha and beta carotene on pigmentation and gut microbiota of <i>cyprinus carpio</i>
	2021-ag-1148			
79	Sidra Ashraf	MPhil	2023	Changes in luminescent intestinal microflora of common carp (<i>cyprinus carpio</i>) fed with saffaron oil
	2021-ag-1540			
80	Tayyaba Asghar	MPhil	2023	Role of <i>enterococcus faecalis</i> through feed on gut micrioniota of <i>Cirrhinus mrigala</i> and <i>Ctenopharyngodon idella</i> .
	2021-ag-1411			
81	Arooj 2021-ag-1447	MPhil	2023	Effect of oral administration of <i>bacillus subtilis</i> and <i>bacillus licheniformis</i> on internal microbiota of <i>Labeo rohita</i> and <i>hypophthalmichthys molitrix</i> .
82	Asra Wajeelha 2021-ag-1575	MPhil	2023	Effect of raffinose on growth and microbiota of <i>hypophthalmichthys molitrix</i>
83	Kinza Javed 2021-ag-1507	MPhil	2023	Occurance of cellulase bacteria in stomach of <i>labeo rohita</i> and <i>ctenopharyngodon idella</i>
84	Abuzar Munir	MPhil	2023	Effect of sericite on gut microbes and hematological parameters of silver carp (<i>hypophthalmichthys molitrix</i>)
	2021-ag-1517			
85	Anam Rasti Javaid	MPhil	2023	Rose petal meal as a potential growth and pigmentation enhancer in common carp (<i>cyprinus carpio</i>)
	2021-ag-1586			

86	Aniqa Batool	MPhil	2023	Effect of chia seed oil on gut microbiota and growth performance of <i>Labeo rohita</i> and <i>Cirrhinus mrigala</i>
	2021-ag-1446			
87	Abdul Rasheed	MPhil	2023	Effect of dietary supplementation of <i>Schizochytrium sp.</i> on the intestinal microbiota of Grass carp
	2021-ag-2489			
88	Maham Rana	MPhil	2022	Effect of dietary isoleucine on growth and digestion in <i>Labeo rohita</i>
	2020-ag-1053			
89	Faiza Afzal	MPhil	2022	Effect of body weight on lysine utilization efficiency in <i>Oreochromis niloticus</i>
	2020-ag-1042			
90	Shahbaz Ali	MPhil	2022	Comparative study on mucus microbiota of Major Carps, <i>Labeo rohita</i> , <i>Cirrhinus mrigala</i> and <i>Catla catla</i>
	2020-ag-1938			
91	Shumaila Maryam	MPhil	2022	Identification of major Cellulase producing
	2020-ag-1038			Fungi in the intestine of Grass Carp
92	Mehreen Gul	MPhil	2022	Dietary effects of soyabean products on gut
	2020-ag-1032			histology and microbiota of Grass Carp
93	Areeba	MPhil	2022	Identification of <i>Bacillus subtilis</i> from the distal
	2020-ag-1048			end of intestinal micro flora of Common Carp
				and Silver Carp
94	Kiran Ahmad Khan	MPhil	2022	Immune response, disease resistance and intestinal microflora of juvenile <i>Catla catla</i>
	2020-ag-1212			
95	Sokaina Sarwar 2018-ag-974	MPhil	2022	Determination of Safe use of plant ingredients
				in diet for Common Carp

96	Irum Shahzadi	MPhil	2022	Microbial diversity of intestinal contents and mucus in <i>Cyprinus carpio</i>
	2020-ag-1123			
97	Fatima Seerat	MPhil	2022	Effect of lysine and methionine supplementation to a soy protein concentrated diet of Grass Carp
	2020-ag-1129			
98	Isha Sajjad	MPhil	2022	Immune response, disease resistance and intestinal microflora of juvenile jian carp (<i>Cyprinus carpio</i>)
	2020-ag-1070			
99	M Imran Muneer	MPhil	2022	Effect of dietary lysine requirement in the growth of <i>Cyprinus carpio</i>
	2017-ag-3117			
100	Bushra	MPhil	2022	Identification of <i>Bacillus subtilis</i> as probiotic from intestinal microflora <i>Labeo rohita</i>
	2020-ag-1060			
101	Faiza Rafique	MPhil	2022	Effect of Methionine on growth performance and micro flora in Common Carp (<i>Cyprinus carpio</i>)
	2020-ag-1059			
102	Hafsa Sohail	MPhil	2022	Effect of <i>Salmonella</i> spp. on intestine on <i>Labeo rohita</i>
	2018-ag-1115			
103	Ayesha Nisar	MPhil	2022	Effect of dietary thiamine on immune response of <i>Cyprinus carpio</i>
	2020-ag-1066			
104	M	MPhil	2022	Comparative analysis of intestinal bacterial communities in Silver and Grass Carp
	2020-ag-1069			
105	Rubia Ishaq	MPhil	2022	Microbial diversity of Intestinal content and Mucus in Rainbow Trout
	2020-ag-1073			
106	Aqsa Akhtar	MPhil	2022	Identification of <i>Bacillus subtilis</i> from the proximal intestinal microflora of Major Carps
	2020-ag-1105			

107	Faiza Afzal	MPhil	2022	Effect of body weight on lysine utilization
	2020-ag-1042			efficiency in <i>Oreochromis niloticus</i>
108	Farhat Iqbal	MPhil	2021	Intestinal microbiota of <i>Labeo rohita</i> fed with functional nucleic acids
	2019-ag-2134			
109	Saman Liaqat	MPhil	2021	Comparative Gut Analysis of <i>Labeo rohita</i> on feed containing blend of microorganisms
	2019-ag-2187			
110	Sufyan Shaukat	MPhil	2021	Functional nucleic acid impacts on immunology and growth potentials of Major carp
	2019-ag-2188			
111	Ayesha Sharif	MPhil	2021	Bacterial strain in gut contents of <i>Cerrhinus merigala</i> and <i>Catla catla</i> supplemented with functional nucleic acids
	2019-ag-2142			
112	Imran Hassan	MPhil	2021	Microbiological quality of Nile tilapia reared in pond
	2019-ag-2190			
113	M. Shahzad	MPhil	2021	Functional Nucleic Acid Impacts on Immunology and Growth Potentials of Chinese carp
	2019-ag-2174			
114	Fareeha Sattar	MPhil	2021	Influence of limiting amino acids on the gut microbiota of major carps
	2019-ag-2181			
115	Musrrat Ramzan	MPhil	2021	Bacillus pamilus impact on growth performance of chines carp
	2019-ag-2163			
116	Zainab Ali	MPhil	2021	<i>Bacillus megaterium</i> impact on pond water quality
	2019-ag-2172			
117	Waqar Ahmad	MPhil	2021	Microbiological aspects of silver carp raised on functional nucleic acids
	2019-ag-2159			

118	Farida Kouser	MPhil	2021	<i>Bacillus subtilis</i> impact on production potential of major carp
	2019-ag-2157			
119	Ali Hamza/	MPhil	2021	Role of ecological factors in shaping the gut microbial communities of wild and farmed <i>Labeo rohita</i>
	2019-ag-2140			
120	Chaman Ara	MPhil	2021	Impact of Alpha-amylase on intestinal microbes of <i>Catla catla</i>
	2019-ag-2138			
121	Farwa Zulfiqar 2019-ag-2144	MPhil	2021	Comparison of alpha amylase supplemented diets for growth potentials in major carps
123	Hafsa Maryam 2019-ag-2139	MPhil	2021	Gut microbiota of Nile tilapia raised on artificial feed
124	Samia Bano	MPhil	2021	Age relating differences in gut microbiome of <i>Catla catla</i>
	2019-ag-2177			
125	Sana Arshad	MPhil	2021	Studies on gut microbiota improvements of <i>Labeo rohita</i> fed with diet-supplemented with α -amylase
	2019-ag-2171			
126	Kashmala Koukab	MPhil	2021	Quantitative and Qualitative Bacterial Strains in Major Carps Cultured in Earthen Pond
	2019-ag-2186			
127	Zunaira Rehman	MPhil	2021	Intestinal microbiota composition of <i>Labeo rohita</i> fed with Soybean and Canola meal
	2019-ag-2167			
128	Sammar Mushyat	MPhil	2021	Intestinal Microbiota and Its Effect on the Health of Nile Tilapia, (<i>Oreochromis Niloticus</i>)
	2019-ag-2166			
129	Shahida Iqbal	MPhil	2021	Changes in skin of mucus of <i>Labio rohita</i> and <i>C. Catla</i> exposed to water with high bacterial load
	2017-ag-5510			

130	M. Usman	MPhil	2021	Impact of animal's manure enriched ponds on microbiological contents and immunology of Major carps
	2019-ag-2120			
131	Fizza Qamar	MPhil	2021	Influence of limiting amino acids on gut microbiota of Chinese Carp
132	Kishwar Iftikhar	MPhil	2021	Intestinal bacterial flora of trout fish as a biological indicator of waste water
134	Aaisha Saeed	MPhil	2021	Bacterial abundance and diversification in pond water supply with organic feed
	2017-ag-3783			
135	Sollat Rasool	MPhil	2021	Effect of dietary arginine on growth and Hematology of Juvenile <i>Labeo rohita</i>
	2018-ag-1111			
136	Faria Ijaz	MPhil	2020	Detection of EPS in Silver Carp by Feeding DAP fertilizer
	2016-ag-1953			
137	Saba Akram	MPhil	2020	Effect of EPS and Coliform on Skin and Gut of Chinese Carp Fed by Different Levels (2%, 4%) of Potassium
	2015-ag-2652			
138	M. Sher Afgan	MPhil	2020	Comparative Microbiota of Farm Raised and Marketed <i>Labeo rohita</i>
	2016-ag-2480			
139	Hafiz Umair Shabir	MPhil	2020	Studies on the intestinal bacterial flora in silver carp
	2016-ag-1546			
140	Sayed Arooj Fatima Gillani	MPhil	2020	Determination of Coliform Bacteria in Silver Carp from Pond and Market
	2016-ag-999			
141	Uzma Zain	MPhil	2020	Estimation of Bacteria on Gills and Mouth of <i>L. rohita</i>
	2013-ag-267			
142	Sania Saeed	MPhil	2020	Determination of EPS and <i>E. coli</i> in Chinese carps cultured on different media
	2016-ag-4754			

143	Uzma Sikandar	MPhil	2020	Isolation, Identification and Antibiotic Resistance of Aeromonas Species form Tap Water of Faisalabad, Pakistan
	2018-ag-3713			
144	Misbah Rehmat	MPhil	2020	Effect of Canola and Sunflower Oil Supplemented Feed on Growth and Digestive Enzyme Activity of GMT (<i>Oreochromis niloticus</i>)
145	M. Moavia	MPhil	2020	Comparative studies on growth performance, body composition and hematology of tilapia strains reared under similar conditions
146	Faiza Sultan	MPhil	2020	Characterization of <i>Salmonella</i> in Fish and Aquatic Ecosystem of pond
147	Mehrunisa	MPhil	2019	Effects of by products on growth, haematology and gut microbiota of <i>Hypophthalmichthyes molitrix</i>
	2015-VA-1304			
148	Uzma Sikander	M.Sc.	2019	Determination of E-coli in gut contents of Tilapia fed with green tea
149	Mehwish Ashraf	M.Sc.	2017	Studies on haemotological profile & immunity parameter of Tilapia fed with green tea
150	Samreen Aslam	M.Sc.	2017	Identification of different strains of bacteria +/- in Tilapia fed with <i>Moringa olifera</i>
151	Mehr-un-Nisa	M.Sc.	2017	Effect of <i>Moringa olifera</i> on growth potential & total bacterial load in gut contents of Tilapia
152	Javeria Liaqat	M.Sc.	2017	Determination of beneficial & harmful bacterial strains in <i>Tilapia niloticus</i> fed with black pepper
153	Zainab Fiaz	M.Sc.	2017	Determination of E-coli in gut contents of Tilapia fed with Black pepper
154	Namra Qaiser	M.Sc.	2017	Studies on haemotological profile & immunity parameter of Tilapia fed with black pepper
155	M. Ahmad	M.Sc.	2017	Comparison of different bacterial strains of Bacteria in Tilapia (<i>Oreochromis niloticus</i>)
156	Bazgha Nausheen	M.Sc.	2016	Effect of Water Quality & Soil Parameters on Hematology of <i>Labeo rohita</i> and <i>Oreochromis niloticus</i>

157	M. Zubair	M.Sc.	2016	Comparison of different Strains of Bacteria in <i>Labeo rohita</i>
158	Sobia Hameed	M.Sc.	2016	Identification of Microbial Strains of Soil in Earthen Ponds of UVAS
159	Zaitoon Bibi	M.Sc.	2016	Effects of Bacterial Species on Water Quality Parameters
160	Rabia Abbas	BS (Hons.)	2016	Effect of Guava (<i>Psidium Guajva</i>) on Growth Potential, Immunology and Hematology of Tilapia (<i>Oreochromis niloticus</i>)
161	Faiza Ijaz	BS (Hons.)	2016	Effect of Guava (<i>Psidium Guajva</i>) on Growth Potential, Immunology and Hematology of Tilapia (<i>Oreochromis niloticus</i>)
162	Zunera	BS (Hons.)	2016	Effect of Different Percentages of Dietary <i>Allium sativum</i> (Garlic) on Growth & Immunological Parameters of <i>Oreochromis niloticus</i>
163	Laraib Zulfiqar	M.Sc.	2015	Changes in the Chemical & Microbiological Characteristics of Frozen & Fresh Tilapia (<i>Oreochromis niloticus</i>) and Proximate Composition Analysis
164	Ayesha Sarwar	M.Sc.	2015	Comparison of the Total Viable Bacterial Count in the Flesh of <i>Oreochromis niloticus</i> (Tilapia) & Gallus gallus (Broiler Chicken)
165	Ayesha Salim	M.Sc.	2015	Study of bacterial flora in gills and buccal cavity of Tilapia (<i>Oreochromis niloticus</i>) cultured in farms
166	Sehrish Butt	M.Sc.	2013	Impact of saline environment on production potential and proximate composition of major and chinese carps
167	Madiha Ghani	M.Sc.	2013	Determination of coliform bacteria in the skin of <i>Oreochromis niloticus</i> of pond and market
168	Andlib Anwar	M.Sc.	2013	Seasonal variations in the intestinal bacterial flora of (<i>Oreochromis niloticus</i>) cultured in farms
169	Zartashia Saman	M.Sc.	2013	Growth performance and proximate composition of Nile Tilapia (<i>Oreochromis niloticus</i>) in Slaine environment
170	Mehwish Sharif	M.Sc.	2012	Hematological profile of wild and farmed <i>Cirrhinus mrigala</i> (Mori)

171	Uzma Zulfiqar	M.Sc.	2012	Determination of Coliforms and EPS producing bacteria in fins and scales of <i>Cirrhinus mrigala</i> (Mori) cultured in fresh and brackish water ponds
172	Shahida Salim	M.Sc.	2012	Determination of Coliforms and EPS producing bacteria in fins and scales of <i>Labeo rohita</i> (Rohu) cultured in fresh and brackish water ponds
173	Rabia Sohail	M.Sc.	2012	Substitution of fish meal with soybean meal and their effect on production and carcass composition of <i>Labeo rohita</i> and <i>Cirrhinus mrigala</i>
174	Saba Shafique	M.Sc.	2011	Substitution of fish meal with plant protein and their effect on carcass composition of <i>Labeo rohita</i>
175	Samina Arif	M.Sc.	2011	Use of maize gluten as a substitute for fish meal and its impact on growth and carcass composition of <i>Cirrhinus mrigala</i> and <i>Labeo rohita</i>

PhD= 10

MPHIL= 162

BS = 116

List of Courses Taught

Sr #.	Course Name	Degree
1.	Developmental Biology	M. Sc/ BS
2.	Economic Zoology	M. Sc/BS
3.	Limnology	M. Sc/BS
4.	Ichthyology	M.Sc/BS
5.	Fisheries	M.Sc/BS
6.	Fish Ecology	B.S
7.	Fisheries	BS
8.	Animal Diversity I	BS
9.	Animal Diversity II	BS
10.	Biological Techniques	BS
11.	Aquaculture	M. Phil
12.	Fish Requirements	M. Phil
13.	Fish Processing	M. Phil
14.	Aquatic Biodiversity	BS
15.	Fish and Fisheries of Pakistan	BS

Projects Title: -

1. Fresh Water Shrimp Farming, Diversification of the Aquaculture of Pakistan by shrimp rearing and its feed formulation
2. Genetic Characterization and Genetic Improvement of *Labeo rohita* Through Nutrigenomics

INTERNATIONAL BOOK Co-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

RESEARCH ARTICLES IN JOURNALS/PROCEEDINGS:

1. Manzoor, Kashif and **Parveen, Dr. Shakeela** and Rasool, Fayyaz and Raza, Prof. Dr. Muhammad Asif and Khan, Junaid Ali and Bano, Naheed and Ayub, Dr. Amina and Mahmood, Shahid and Ullah, Dr. Mati and Hidait, Dr. Nigah and Sugiharto, Prof. Dr. Sugiharto and Kari, Prof. Dr. Zulhisyam and Song, Houhui and Manzoor, Dr. Zahid, Effect of Chlorella Vulgaris Meal as a Soybean Replacement on Growth Performance, Feed Utilization, Digestive Enzymes Activity, Amino Acid Profile, Hematobiochemical Parameters, Disease Resistance, and Histopathological Changes in Ctenopharyngodon Idella. Available at SSRN: <https://ssrn.com/abstract=5223552>
2. Shahid Mahmood, Fayyaz Rasool, **Shakeela Parveen**, Amina Ayub, Kashif Manzoor, Matiullah, Muhammad Danish Latif, Talib Hussain, Aafaq Younas, Ghulam Rabbani, Nigah Hidait and Khalid Mahmood Anjum, **2024**. Prevalence, antimicrobial profiling and molecular characterization of antimicrobial resistant genes of pathogenic bacteria detected in *Channa marulius* of the indus riverine system in Pakistan. Pak Vet J, 44(4): 1308-1314, <http://dx.doi.org/10.29261/pakvetj/2024.244> (IF = 3.8)
3. Muhammad Ahmad, **Shakeela Parveen**, Fayyaz Rasool, Amina Ayub, Shahid Mahmood, Zeeshan Ashraf, Shumaila Maryam, Tahreem Fatima, & Kashif Manzoor. **2024**. EFFECT OF ROSELLE ANTHOCYANIN EXTRACT ON GUT MICROBIOTA AND IMMUNE RESPONSE IN CYPRINUS CARPIO AND CTENOPHARYNGODON IDELLA. *Journal of Population Therapeutics and Clinical Pharmacology*, 31(7), 435–447. <https://doi.org/10.53555/jptcp.v31i7.6957> (IF: 1.5)
4. Sadia Parveen, **Shakeela Parveen**, Fayyaz Rasool, Muhammad Ahmad, Muhammad Haroon, Orba, Sumbal, Ifrah Mustafa, Barira Rashid, Aneela Nazir, Rakshanda Tariq, Aqsa Ameen, Kashif Manzoor and Muhammad Kaleem. **2024**. Influence of nutritional emulsifier (Egg Lecithin) on growth, feed utilization and gut microbiota of *Catla catla*. *International Journal of Forest Sciences*. 4(3):207-2016. <https://zenodo.org/badge/DOI/10.5281/zenodo.13853322.svg>
5. Sumbal, **Shakeela Parveen**, Fayyaz Rasool, Amina Ayub, Muhammad Ahmad, Arooj, Sadia Parveen, Orba and Talib Hussain, **2024**. EFFECT OF DIETARY MARINE YEAST AND SACCHAROMYCES CEREVISIAE ON MICROBIAL COMPOSITION AND IMMUNE RESPONSE OF CYPRINUS CARPIO. *Journal of Population Therapeutics and Clinical Pharmacology*, 31(7): 201–209. <https://doi.org/10.53555/jptcp.v31i7.6957> (IF: 1.5)
6. Abdul Rehman, Fayyaz Rasool, **Shakeela Parveen**, Aqsa Tahir, Mati Ullah, Syed Shafat Hussain, Nimra Khalid, Harun Arslan, **2024**. Antagonistic impact of Lactobacilli on Escherichia coli in the gut of Labeo rohita fingerlings fed with bakery wastes. *International Journal of Applied and Experimental Biology*, 3(1): 7-16. DOI: <https://doi.org/10.56612/ijaaeb.v1i1.11>
7. Kashif Manzoor, Fayyaz Rasool, Noor Khan, Khalid Mehmood Anjum and **Shakeela Parveen**, **2023**. Prevalence and molecular detection of *Edwardsiella tarda* in cultured tilapia species of fish farms of Punjab in Pakistan. DOI: 10.29261/pakvetj/2023.015 (ONLINE) Pakistan Veterinary Journal (PVJ). (IF = 2.3)
8. Kashif Manzoor, Fayyaz Rasool, Noor Khan, Khalid Mehmood Anjum and **Shakeela Parveen**, **2023**. Occurrence of virulence genes of *Edwardsiella tarda* 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. 856)
9. 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 tarda* in Edwardsiellosis-affected tilapia species cultured in fish farms of Punjab in

Pakistan. <https://doi.org/10.4014/jmb.2301.01008>, Journal of Microbiology and Biotechnology (JMB); 33(5): 1–12 (ONLINE) (IF = 3.277)

10. Kashif Manzoor, Fayyaz Rasool, **Shakeela Parveen**, Muhammad Hafeez-ur-Rehman, Shahid Mahmood, Amina Ayub, **2023**. Impact of feed with varying crude protein (CP) levels on growth performance of different fish species cultured under similar regimes. International Journal of Applied and Experimental Biology, 2(1): 33-42. DOI: <https://doi.org/10.56612/ijaeb.v1i1.29>
11. Fayyaz Rasool, **Shakeela Parveen**, Matiullah, Kashif Manzoor, Shahid Mahmood, **2023**. Correlation of planktonic biomass with other physico-chemical parameters of water quality in fertilized fish ponds. INTERNATIONAL JOURNAL OF APPLIED AND EXPERIMENTAL BIOLOGY. 1(1): 39-47. doi: <https://doi.org/10.56612/ijaeb.v1i1.10>
12. 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 = 0.70).
13. 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 = 0.856)
14. **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).
15. Amina Ayub, Fayyaz Rasool, Noor Khan, Shafqat Nawaz Qaisrani, **Shakeela Parveen**, Khalid Mahmood Anjum, Mahroze Fatima, Matiullah, Shahid Mahmood 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).
16. 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 = 0.856)
17. **Shakeela Parveen**, Iftikhar Ahmed, Abdul Mateen and Mansoor Hameed, **2020**. Replacement of fish meal by corn gluten meal in fish feed: impacts on growth and body composition of *Labeo rohita* and overall production of fish pond. Pakistan Journal of Agricultural Sciences, 57(5), 1271-1278 (IF = 0.856)
18. Fayyaz Rasool, Shafat Hussain, Noor Khan, **Shakeela Parveen**, Tanveer Hussain, Hamda Azmat and Khalid Mahmood 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).
19. Fayyaz Rasool, **Shakeela Parveen**, Naila Ata, Noor Khan and Khalid Mahmood 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).
20. Fayyaz Rasool, Zuaira Hassan, **Shakeela Parveen**, Noor Khan and Khalid Mahmood 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).
21. **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).
22. Matiullah, Fayyaz Rasool, Ehsan Mahmood 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).
23. 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>
24. 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)
 25. **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).
 26. **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)
 27. 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).
 28. 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. 856)
 29. 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)
 30. 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).
 31. 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 = 0.70).
 32. 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 = 0.70).
 33. **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. 856).
 34. 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.
 35. 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. Ifrah Mustafa, **Shakeela Parveen**, Fayyaz Rasool, Barira Rashid, Muhammad Ahmad, Rafia Naeem, Muhamad Haroon, Areeha Fatima, Kiran Fatima Niazi, Sadia Parveen, **2024**. Effect of carrot flour on Pigmentation and Blood parameters of *Catla catla* and *Cyprinus carpio* in 3rd two-day International Conference of Zoology on Zoological Emerging Scientific Trends, organized by Department of Zoology, Division of Science and Technology, University of Education Lahore, Pakistan, from 16-17 october, 2024. **ZEST2024-FA-09**

2. Amina Shahid, **Shakeela Parveen**, Fayyaz Rasool, Arooj, Shamsa Saleem, Mehwish Ali, Shumail Ijaz, Muhammad Ahmad and Muhammad Haroon. 2024. Impact of Photosynthetic algae on water quality and Microbial Composition of *Ctenopharyngodon idella* in 3rd two-day International Conference of Zoology on Zoological Emerging Scientific Trends, organised by Department of Zoology, Division of Science and Technology, University of Education Lahore, Pakistan, from 16-17 october, 2024. **ZEST2024-FA-12**
3. Arooj Haneef, **Shakeela Parveen**, Fayyaz Rasool, Farwa Batool, Javeria Mehmood, Muhammad Ahmad, Orba and Kashif Manzoor. 2024. Effect of oral administration of *Bacillus subtilis* and *Bacillus licheniformis* on internal microbiota of *Labeo rohita* and *Hypophthalmichthys molitrix* in 3 two-day International Conference of Zoology on Zoological Emerging Scientific Trends, organised by Department of Zoology, Division of Science and Technology, University of Education Lahore, Pakistan, from 16-17 october, 2024. **ZEST2024-FA-28**
4. Farwa Batool, Shakeela Parveen, Fayyaz Rasool, Aneela Nazir, Arooj, Anam Ashfaq. 2024. Microbial analysis of traditional salted fish and Farm raised fish in District Faisalabad in 3 two-day International Conference of Zoology on Zoological Emerging Scientific Trends, organised by Department of Zoology, Division of Science and Technology, University of Education Lahore, Pakistan, from 16-17 october, 2024. **ZEST2024-FA-17**
5. Sadia Parveen, **Shakeela Parveen**, Fayyaz Rasool, Arooj, Muhammad Ahmad, 2024. Influence of Nutritional emulsifier supplementation on Growth, feed utilization and microbial communities of *Catla catla* and *Cyprinus carpio* in 3 two-day International Conference of Zoology on Zoological Emerging Scientific Trends, organised by Department of Zoology, Division of Science and Technology, University of Education Lahore, Pakistan, from 16-17 october, 2024. **ZEST2024-FA-27**
6. Shumail Ejaz, **Shakeela Parveen**, Fayyaz Rasool, Muhammad Haroon, Areeba Naseer, Nayab Haseeb, Tooba Mehar. 2024. Impact of Ananas comosus Leaf Powder on Hematology and Gut Microbiota of *Ctenopharyngodon idella* and *Catla catla* in 3 two-day International Conference of Zoology on Zoological Emerging Scientific Trends, organised by Department of Zoology, Division of Science and Technology, University of Education Lahore, Pakistan, from 16-17 october, 2024. **ZEST2024-FA-02**
7. Tahreem Safdar, **Shakeela Parveen**, Fayyaz Rasool, Rubab Anees. 2024. Role of Probiotic *Rhodopseudomonas palustris* as a Growth Promoter in *Labeo rohita* and *Hypophthalmichthys molitrix* in 3 two-day International Conference of Zoology on Zoological Emerging Scientific Trends, organised by Department of Zoology, Division of Science and Technology, University of Education Lahore, Pakistan, from 16-17 october, 2024. **ZEST2024-FA-03**
8. Rubab Anees, **Shakeela Parveen**, Fayyaz Rasool, Tahreem safdar. 2024. Evaluation of Growth Performance and Blood Performance of *Catla catla* Fed Dietary Spirulina in 3 two-day International Conference of Zoology on Zoological Emerging Scientific Trends, organised by Department of Zoology, Division of Science and Technology, University of Education Lahore, Pakistan, from 16-17 october, 2024. **ZEST2024-FA-04**
9. Sumbal, **Shakeela Parveen***, Fayyaz Rasool, Muhammad Haroon, Muhammad Ahmad, Anila. 2024. Effect of Dietary Marine Yeast and *Saccharomyces cerevisiae* on Microbial Composition and Immune Response of *Cyprinus carpio* in 3 two-day International Conference of Zoology on Zoological Emerging Scientific Trends, organised by Department of Zoology, Division of Science and Technology, University of Education Lahore, Pakistan, from 16-17 october, 2024. **ZEST2024-FA-05**
10. Aneela Nazir, **Shakeela Parveen***, Fayyaz Rasool, Muhammad Haroon, Muhammad Ahmad, Sumbal. 2024. Effect of grape seed extract on growth, blood parameters, and immunity of *Ctenopharyngodon idella* and *Carassius auratus* in 3 two-day International Conference of Zoology on Zoological Emerging Scientific Trends, organised by Department of Zoology, Division of Science and Technology, University of Education Lahore, Pakistan, from 16-17 october, 2024. **ZEST2024-FA-06**
11. Amara, **Shakeela Parveen**, Fayyaz Rasool, Muhammad Ahmad. 2024. Effect of Dietary Inulin and Lactic Acid Bacteria on Gut Microbiota and Immune Response in *Oreochromis niloticus* in 3 two-day International Conference of Zoology on Zoological Emerging Scientific Trends, organised by Department of Zoology, Division of Science and Technology, University of Education Lahore, Pakistan, from 16-17 october, 2024. **ZEST2024-FA-11**

12. Husna Bashir, **Shakeela Parveen***, Fayyaz Rasool, Muhammad Haroon, Muhammad Ahmad. 2024. Amelioration of Growth Performance and Immune System in *Labeo rohita* using Taraxacum Extract and Rutin in 3 two-day International Conference of Zoology on Zoological Emerging Scientific Trends, organised by Department of Zoology, Division of Science and Technology, University of Education Lahore, Pakistan, from 16-17 october, 2024. **ZEST2024-FA-13**
13. Mehwish Ali, **Shakeela Parveen***, Fayyaz Rasool, Tahreem safdar, Rubab Anees, Muhammad Ahmad, Muhammad Haroon, Sana Abid, Zunaira Jamal. 2024. Effect of Amla Fruit Extract on the Growth and Immune Response of *Labeo rohita* and *Hypophthalmichthys molitrix* in 3 two-day International Conference of Zoology on Zoological Emerging Scientific Trends, organised by Department of Zoology, Division of Science and Technology, University of Education Lahore, Pakistan, from 16-17 october, 2024. **ZEST2024-FA-15**
14. Zeeshan Yousaf, **Shakeela Parveen***. 2023. Aloe vera supplementation improves growth performance and nutrient utilization of *Catla catla* fingerlings fed diets with canola meal in 3 two-day International Conference of Zoology on Zoological Emerging Scientific Trends, organised by Department of Zoology, Division of Science and Technology, University of Education, Township Lahore-Pakistan, from March 07-08, 2023. **ZEST2023-FA-20**
15. **Shakeela Parveen***, Muhammad Usama Rasheed and Fayyaz Rasool. 2023. Comparison of natural and synthetic pigments on coloration and gut microbiota of *Oreochromis niloticus*. in 3 two-day International Conference of Zoology on Zoological Emerging Scientific Trends, organised by Department of Zoology, Division of Science and Technology, University of Education, Township Lahore-Pakistan, from March 07-08, 2023. **ZEST2023-PHT-17**
16. Shanza Nadeem, **Shakeela Parveen***, Fayyaz Rasool, Hafsa Sohail. 2023. Effect of Crocussativus on Immunology and pigmentation of *Cyprinus Carpio* in 3 two-day International Conference of Zoology on Zoological Emerging Scientific Trends, organised by Department of Zoology, Division of Science and Technology, University of Education, Township Lahore-Pakistan, from March 07-08, 2023. **ZEST2023-FA-20**
17. Naureen Aziz Qureshi, Fayyaz Rasool, 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. International Fisheries & Aquaculture Conference-2019, Organized by UVAS, Pakistan Fisheries & Aquaculture Society, from 30-31 January, 2019 at Flatties Hotel, Lahore. **IFAC-2019-FHD-08**
18. Matiullah, Fayyaz Rasool, **Shakeela Parveen**, Amir Afzal khan², Ayaz Alam¹, Syed Shafat Hussain¹, Ayub Khawar¹, Muhammad Moavia¹, and Adul Rehman, 2019. Use of species specific 16s rRNA marker for the detection of *escherichia coli*, isolated from farm raised infected *Labeo rohita*. International Fisheries & Aquaculture Conference-2019, Organized by UVAS, Pakistan Fisheries & Aquaculture Society, from 30-31 January, 2019 at Flatties Hotel, Lahore. **IFAC-2019-FPBG-31**.
19. Mehar-un-Nissa Akram, **Shakeela Perveen**, Fayyaz Rasool, Matiullah, Shahbaz Anwar, Ayesha Sarwar, Muhammad Moavia and Adul Rehman, 2019. Effect of *Moringa olifera* leaves on growth and gut microbiota health of tilapa, 2019. International Fisheries & Aquaculture Conference-2019, Organized by UVAS, Pakistan Fisheries & Aquaculture Society, from 30-31 January, 2019 at Flatties Hotel, Lahore. **IFAC-2019-FHD-38**
20. Mahrukh Butt, Fayyaz Rasool, **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. International Fisheries & Aquaculture Conference-2019, Organized by UVAS, Pakistan Fisheries & Aquaculture Society, from 30-31 January, 2019 at Flatties Hotel, Lahore. **IFAC-2019-FNF-47**
21. Behloul Abbas, Fayyaz Rasool, **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. International Fisheries & Aquaculture Conference-2019, Organized by UVAS, Pakistan Fisheries & Aquaculture Society, from 30-31 January, 2019 at Flatties Hotel, Lahore. **IFAC-2019-FPBG-32**

22. 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**
23. 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**
24. **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**
25. 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**
26. 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**
27. 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**
28. 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**
29. 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**
30. 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**
31. 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**
32. 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**
33. 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**

34. 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**
35. 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**
36. 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. ATPase 6/8 gene assisted genetic variability studies among the population of *Labeo rohita*.
37. 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.
38. 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.
39. 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
40. 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
41. **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
42. 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
43. 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

CONFERENCES/WORKSHOPS/SEMINARS/TRAININGS ATTENDED AND ORGANIZED NATIONAL/INTERNATIONAL:

1. One-day Hand on Training workshop on “Animal Preservation and Taxidermy”, Organised by Department of Zoology, Wildlife and Fisheries, University of Agriculture Faisalabad, on September 19, 2024.
2. One-day Fisheries Seminar on the topic of “Enhancement of Fish Production and Consumption in Punjab” at Fisheries Complex Sargodha held on 25th May 2024.

3. 2nd Two-day International Conference on Zoological Emerging Scientific Trends (ZEST-2023) held on March 07-08, 2023 at Department of Zoology, University of Education Lahore.
4. International Fisheries & Aquaculture Conference-2019, Organized by UVAS, Pakistan Fisheries & Aquaculture Society, from 30-31 January, 2019 at Flatties Hotel, Lahore (Organized)
5. 6th International Fisheries Symposium & Expo, Organized by UVAS, Punjab Fisheries Department & Pakistan Fishery Society, from 8-9 February 2017 at Flatties Hotel, Lahore. (Organized)
6. In-Service Training for University and College Faculty at UVAS, Lahore, 16th-20th May 2016 (Attended)
7. Spring Festival, 2016 UVAS Ravi Campus Pattoki, Organized by Senior Tutor Office (Organized)
8. Capacity Building of Young Researchers, organized by Department of Poultry Production, UVAS, Ravi Campus-Pattoki. June 15th-18th, 2015 (Attended)
9. 2-Days Hands on Training “Zoo Animal’s Keeping & Zoonosis & Biosafety” Organized by Department of Wildlife & Ecology, UVAS 27-28th August, 2015 (Attended)
10. “Butterflies/Insects Collection & Preservation Techniques” Organized by Department of Wildlife & Ecology, UVAS 4-6th November 2015 (Organized)
11. One Day Seminar on World Fisheries Day, November 24th, 2015 (Organized)
12. How Do Work as a Team hold on 2nd – 7th May, 2013 by Senior Tutor Office. (Attended)
13. Genetic Resources and Molecular Techniques in Livestock Production under HEC-BC JHELL Program III. 11-12th January, 2010 (Attended)
14. Genetic Resources and Molecular Techniques in Livestock Production under HEC-BC JHELL Program II. 29-30th October, 2008 (Attended)
15. Pakistan Day Celebration on 23rd, March 2007 (Organized)
16. Fish Breeding Techniques and Genetics 28th June, 2007 (Attended)
17. Solving Problems of Fresh Water Fish Farming in Pakistan. 27-28th November, 2006 (Attended)
18. 35th International Congress of Zoology, University of Karachi. 1-4th March, 2015 (Attended)
19. 30th International Congress of Zoology, University of Agriculture, FSD. 2-4th March, 2010 (Organized)
20. Sampling Techniques for Volant and Non-volant Mammals 21-22 July, 2011 (Organized)
21. Moduling and Distribution of Species Richness Techniques. 22-26 April, 2012 (Organized)