

Curriculum Vitae of Dr. Ali Hussain



EXECUTIVE DIGITAL SUMMARY

Qualification	Ph.D. (Zoology)	
Degree Awarding Institute	Department of Zoology, University of the Punjab, Lahore, Pakistan.	
Areas of Interest / Expertise	<ul style="list-style-type: none">❖ Environmental Microbiology❖ Microbial Biotechnology❖ Sustainability❖ Bioenergy	
Current Faculty Position	Associate Professor Institute of Zoology, University of the Punjab, Lahore, Pakistan	
Editorship	Associate Editor of BMC Microbiology	
Professional Experience		
Post-Ph.D. Teaching Experience (Years).....		11.5
Research Experience (Years).....		15.5
Research Projects (As PI).....		07
Research Supervision		
Ph.D. Produced.....		19
M.Phil. Produced.....		71
M.Sc. Produced.....		35
B.S. Produced.....		18
Research Consultancies.....		03
Memberships		
Memberships of Administrative Bodies.....		11
Memberships of Statutory Bodies.....		09
Memberships of Research Advisory Committees.....		02
Memberships of Learned Societies.....		05
Training Courses / Conferences / Seminars / Workshops		
Attended as Participant.....		60
Attended as Resource Person.....		09

Attended as Organizer.....	17
Publications	
Edited Books.....	01
Publications (Journal Articles).....	141
Book Chapters.....	10
Abstracts.....	58
Cumulative Impact Factor.....	229.9
Citations.....	2367
h-index.....	24
i10-index.....	62

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Detailed Resume and List of Publications of Dr. Ali Hussain

1.

PERSONAL PROFILE

Name	Ali Hussain
Gender	Male
Nationality	Pakistani
Religion	Islam
CNIC No.	34104-0330927-7
Passport No.	SK6909271
Marital Status	Married
Contacts	
E-mail IDs	ali.zool@pu.edu.pk ali.hussain@uvas.edu.pk
Cell Nos.	+92-333-4974021 +92-323-4422245

2.

ACADEMIC PROFILE

Degree	Discipline / Area of Study	Detail	Institute / Board / University
Matriculation	Science	1998–2000 (1 st Division)	BISE Gujranwala
F. Sc.	Pre-medical	2001–2003 (1 st Division)	BISE Gujranwala
B.S.	Zoology	2004–2008 (1 st Division)	Department of Zoology University of the Punjab, Lahore, Pakistan
M.S.	Zoology (Environmental Microbiology)	2008–2010 (1 st Division)	Department of Zoology University of the Punjab, Lahore, Pakistan
Ph.D.	Zoology (Environmental Microbiology)	2010–2014	Department of Zoology University of the Punjab, Lahore, Pakistan

Title of Dissertation (M.S.): Corrosion of mild steel following long term burial in soils differing in nutritional and biotic components

Title of Dissertation (Ph.D.): Implication of sulfidogenic bacteria in detoxifying metal contaminated environments

3.

AREAS OF INTEREST / EXPERTISE

- ❖ Environmental Microbiology
- ❖ Microbial Biotechnology
- ❖ Sustainability
- ❖ Bioenergy

4.

DISTINCTIONS AND AWARDS

- ❖ Hafiz-e-Quran
- ❖ HEC Indigenous Scholarship Awardee for M.S. and Ph.D. Studies @ Rs. 10,000/- and Rs. 13,000/- per month (2008–2013)
- ❖ Throughout 1st Divisions in the Entire Educational Career
- ❖ Received Research Incentive Award of Rs. 50,000/- on Publications on September 07, 2017
- ❖ Received Research Incentive Award of Rs. 55,000/- on Publications on June 19, 2019
- ❖ Received Research Incentive Award of Rs. 70,000/- on Publications on November 16, 2020
- ❖ Received Research Incentive Award of Rs. 35,000/- on Publications on July 04, 2022
- ❖ Received Research Incentive Award of Rs. 100,000/- on Publications on December 09, 2022
- ❖ Received Editor of Distinction Award 2025
- ❖ Among the Top 2% Scientists in the Field of Zoology Declared By Stanford/Elsevier for the Year 2025

5.

EMPLOYMENT RECORD

Sr. No.	Institute / Organization	Position	Duration
1.	Department of Fisheries and Aquaculture, University of Veterinary and Animal Sciences, Lahore (Ravi Campus, Pattoki), Pakistan	Assistant Professor (IPFP)	October 24, 2014 to June 03, 2015 (7 Months and 11 Days)
2.	Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore (Ravi Campus, Pattoki), Pakistan	Assistant Professor (IPFP)	June 04, 2015 to October 23, 2015 (4 Months and 20 Days)
3.	Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore (Ravi Campus, Pattoki), Pakistan	Assistant Professor (BPS- On Contract Basis)	October 24, 2015 to March 31, 2016 (5 Months and 8 Days)
4.	Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore (Ravi Campus, Pattoki), Pakistan	Assistant Professor (TTS)	April 01, 2016 to January 16, 2022 (5 Years, 8 Months and 16 Days)
5.	Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore (Ravi Campus, Pattoki), Pakistan	Associate Professor (Tenured)	January 17, 2022 to May 31, 2022 (4 Months and 15 Days)
6.	Institute of Zoology, University of the Punjab, Lahore, Pakistan	Associate Professor (BPS- Permanent)	June 01, 2022 to date

6.

EDITORIAL EXPERIENCE

- Editor of BMC Microbiology (ISSN: 1471-2180)

RESEARCH GRANTS

Sr. No.	Project Description
1.	<p data-bbox="240 432 1447 506">Isolation and identification of fungal pathogens of some commercially important freshwater catfishes from the river Ravi, Pakistan</p> <hr/> <p data-bbox="464 521 1126 555">Sponsor Higher Education Commission of Pakistan (HEC)</p> <p data-bbox="456 573 1078 607">Duration 10.5 Months (July 01, 2016 to June 15, 2017)</p> <p data-bbox="389 624 783 658">Grant Amount 0.31 Million PKR</p> <p data-bbox="384 676 823 710">My Association Principal Investigator</p> <p data-bbox="488 728 850 761">Status Successfully Completed</p>
2.	<p data-bbox="240 790 927 824">Pilot-scale production of bioethanol from microalgae</p> <hr/> <p data-bbox="464 842 1126 875">Sponsor Higher Education Commission of Pakistan (HEC)</p> <p data-bbox="456 893 1158 927">Duration 35 Months (January 01, 2019 to December 31, 2021)</p> <p data-bbox="389 945 767 978">Grant Amount 3.5 Million PKR</p> <p data-bbox="384 996 823 1030">My Association Principal Investigator</p> <p data-bbox="488 1048 850 1081">Status Successfully Completed</p>
3.	<p data-bbox="240 1108 1447 1182">Mixotrophic cultivation of microalgae using different agro-industrial wastes as organic carbon sources for enhancing biomass productivity and lipid yield</p> <hr/> <p data-bbox="464 1198 1046 1232">Sponsor University of the Punjab, Lahore, Pakistan</p> <p data-bbox="456 1249 1329 1283">Duration 12 Months [Fiscal Year 2022-2023 (July 01, 2022 to June 30, 2023)]</p> <p data-bbox="389 1301 783 1335">Grant Amount 0.25 Million PKR</p> <p data-bbox="384 1352 823 1386">My Association Principal Investigator</p> <p data-bbox="488 1404 850 1438">Status Successfully Completed</p>
4.	<p data-bbox="240 1462 1050 1496">Assessing toxic metals-induced functional stress in microalgae</p> <hr/> <p data-bbox="464 1514 1046 1547">Sponsor University of the Punjab, Lahore, Pakistan</p> <p data-bbox="456 1565 1329 1599">Duration 12 Months [Fiscal Year 2024-2025 (July 01, 2024 to June 30, 2025)]</p> <p data-bbox="389 1617 783 1650">Grant Amount 0.25 Million PKR</p> <p data-bbox="384 1668 823 1702">My Association Principal Investigator</p> <p data-bbox="488 1720 850 1753">Status Successfully Completed</p>
5.	<p data-bbox="240 1780 1447 1854">Determining ecological safety thresholds for pesticide-loaded agricultural runoff by establishing chlorophyll-II based toxicity benchmarks in microalgae bioassays</p> <hr/> <p data-bbox="464 1870 1046 1904">Sponsor University of the Punjab, Lahore, Pakistan</p> <p data-bbox="456 1921 1329 1955">Duration 12 Months [Fiscal Year 2025-2026 (July 01, 2025 to June 30, 2026)]</p> <p data-bbox="389 1973 767 2007">Grant Amount 0.3 Million PKR</p>

My Association Principal Investigator

Status Approved (In Progress)

6. Microbial conversion of chicken-feather waste into biofortified compost

Sponsor Pakistan Agricultural Research Council (PARC)

Duration 36 Months

Grant (PKR Million) 5.1 Million PKR

My Association Principal Investigator

Status Short-listed for Funding

7. An economical model to reclaim industrial and sewage wastewater for safer and healthier irrigation in agriculture

Sponsor Punjab Agriculture Research Board (PARB)

Duration 12 Months

Grant (PKR Million) 5.7 Million PKR

My Association Principal Investigator

Status Short-listed for Funding

RESEARCH SUPERVISION

8.1. Postgraduate Supervision

8.1.1. Ph. D. Produced (As Supervisor I)

Sr. No.	Name and Registration No.	Academic Session	Title of Dissertation
1.	Natasha Laraib 2013-VA-568	2016–2021	Molecular identification and biotechnological potential of some indigenous microalgal species from Pakistan
2.	Sana Masood 2014-VA-541	2016–2022	Fungal conversion of chicken feather waste into agro-industrially useful products
3.	Qurat Ul Ain 2014-VA-963	2017–2023	Lab- and pilot-scale production of bioethanol from microalgae: a step towards attaining sustainable pilot-scale yield
4.	Sanaullah Sattar 2014-VA-1110	2018–2023	Corrosive impact of sulphate-reducing bacteria on mild and carbon steels in fluid, semi-fluid and solid media
5.	Imania Ghaffar 2014-VA-1126	2018–2023	Impact of microplastic pollutants on remedial potential of some prokaryotic and eukaryotic microbial species
6.	Muhammad Muneeb 2014-VA-1049	2018–2023	Bioremediation of industrial wastewaters using dissimilatory sulfate-reducing bacteria
7.	Tahir Noor 2014-VA-1093	2020–2025	Mixotrophic microalgal biomass production using different agro-industrial wastes as organic carbon sources: comparison of biomass productivities, lipid yields and fatty acid profiles

8.1.2. Ph. D. Produced (As Supervisor II)

Sr. No.	Name and Registration No.	Academic Session	Title of Dissertation
1.	Waqas Ali 2008-VA-609	2015–2020	Genetic diversity and habitat preferences of amphibians and reptiles from selected sites in Punjab, Pakistan
2.	Muhammad Idnan 2011-VA-608	2014–2021	Genetic diversity in bats of Bajaur Agency, Pakistan
3.	Irfan Saleem 2003-MO-1534	2015–2021	Respiratory health implications in working environment of wet-blue leather tanneries
4.	Sidra Kanwal 2017-VA-256	2017–2021	Improving nutritional profile and oxidative stability of value-added fish products through microencapsulation of marine fish oil
5.	Saira Malik 2011-VA-620	2014–2022	Identification of amphibians and reptiles using different mitochondrial genes from Punjab, Pakistan
6.	Abdul Majeed Saim 2012-VA-814	2019–2023	Assessing climatic impact on parasitic prevalence, hematology and selected pathogenic bacteria in birds
7.	Rizwana Noor 2012-VA-900	2017–2024	Interspecific variations in hematology, parasitic prevalence and selected pathogenic bacterial strains in captive avian species
8.	Muhammad Jamil 2014-VA-1038	2019–2024	Aerobiological characterization of animal housing facilities and development of multiplex PCR for rapid detection of selected bacterial respiratory pathogens

9.	Muhammad Waris 2014-VA-1033	2019–2024	Genetic characterization, spatial distribution and zoonotic potential of <i>Giardia</i> , <i>Enterocytozoon</i> and <i>Cryptosporidium</i> spp. From zoo felids of Punjab, Pakistan
10.	Aqsa Imtiaz 2014-VA-1020	2019–2025	Molecular characterization and genotypic antimicrobial resistance analysis of bacterial pathogens (<i>Campylobacter jejuni</i> and <i>Escherichia coli</i>) isolated from selected captive avian species
11.	Muhammad Saleem 2016-VA-853	2016–2025	Understanding the relationship between genetic diversity and fitness in selected avian species from southern Punjab, Pakistan
12.	Aqsa Saleem 2013-VA-978	2020–2025	Assessment of climatic impact on nutritional profile and antimicrobial effects of honey produced by various <i>Apis</i> species and prediction of future distribution of natural hives

8.1.3. Ph. D. Under Supervision (As Supervisor I)

Sr. No.	Name and Registration No.	Academic Session	Title of Dissertation
1.	Shehzad Ahmad 2015-CK-410	2023 Onwards	Exploiting soil plastisphere bacterial communities for rapid conversion of bioplastics into compost

8.1.4. Ph. D. Under Supervision (As Supervisor II)

Sr. No.	Name and Registration No.	Academic Session	Title of Dissertation
1.	Uzma Sajid 2014-GCWUF-0172	2017 Onwards	Conversion of pressmud into biofortified compost by P-solubilizing nitrogen fixing mixed microbial culture

8.1.5. M. Phil. Produced (As Supervisor I)

Sr. No.	Name and Registration No.	Academic Session	Title of Dissertation
1.	Sana Masood 2014-VA-541	2014–2016	Biological sulphate reduction under thermophilic conditions using some indigenous agro-industrial wastes as cost-effective growth substrates
2.	Khalid Ali 2015-VA-13	2015–2017	Remediation of textile industrial effluents using microalgae
3.	Laraib Zulfiqar 2013-VA-939	2015–2017	Biosorption of toxic metals using highly multiple-metal-resistant bacteria
4.	Saima Batool 2015-VA-1322	2015–2017	Construction of microalgal-bacterial consortium for enhanced remediation of metals-loaded wastewaters
5.	Nabila Shehzadi 2012-VA-876	2016–2018	Distribution and diversity of freshwater fishes in Kalabagh Game Reserve, District Mianwali, Punjab, Pakistan
6.	Adeel Ahmad 2012-VA-876	2016–2018	Biosorption of toxic metals from wastewaters using chicken feathers as novel biosorbents
7.	Aqsa Imtiaz 2014-VA-1020	2016–2018	Biodegradation of chicken feather waste through solid-state fermentation
8.	Muhammad Muneeb 2014-VA-1049	2016–2018	Remedial potential of microalgae for the treatment of real wastewaters originating from different industries

9.	Sanullah Sattar 2014-VA-1110	2016–2018	Exploring genetic diversity of some indigenous microalgal species from Pakistan
10.	Shozab Seemab Khan 2014-VA-1122	2016–2018	Production of bioethanol from microalgae
11.	Imania Ghaffar 2014-VA-1126	2016–2018	Fungal decomposition of feather waste by sub-merged fermentation
12.	Sidra Atta 2014-VA-1014	2016–2018	Lipidomic analysis and biodiesel production potential of some indigenous microalgal species from Pakistan
13.	Khizra Ijaz 2014-VA-1015	2016–2018	Production of biodiesel from wet biomass of macroalgae
14.	Muhammad Inayat 2015-VA-1290	2017–2019	Fungal production of 7ellulose using pressmud as growth substrate
15.	Nadeem Abbas 2015-VA-1303	2017–2019	Bacterial production of 7ellulose using pressmud as growth substrate
16.	Iqra Ijaz 2014-VA-1054	2018–2020	Production of 7ellulose using fruit wastes as economical growth substrates
17.	Tahir Noor 2014-VA-1097	2018–2020	Bacterial production of 7ellulose using municipal solid waste as growth substrate
18.	Iqra Ishaq 2016-VA-1087	2018–2020	Fungal conversion of pressmud into biofortified compost
19.	Ijaz Ahmad 016-VU-011983	2018–2020	Implication of highly metal-resistant bacteria for the sorption of toxic metal ions from wastewaters
20.	Sajjad Shafiq 016-VU-012653	2018–2020	Biological chromium reduction from wastewater using microalgae
21.	Mehwish Ashraf 2014-VA-967	2019–2021	Impact of polystyrene microparticles on bioremedial potential of microalgae
22.	Muhammad Waqas Zeeshan 2014-VA-1044	2019–2021	Bacterial conversion of pressmud into biofortified compost
23.	Rehmana Jabbar 2015-VA-672	2019–2021	Bacterial recovery of 7ellulose from municipal solid waste
24.	Anam Shah 2017-VA-1464	2019–2021	Mixotrophic cultivation of <i>Scenedesmus dimorphus</i> using sugarcane bagasse as additional carbon source
25.	Shehzad Ahmad 2017-VA-1471	2019–2021	Butachlor-induced functional responses in microalgae
26.	Zoya Akram 2017-VA-1455	2019–2021	Characterization of microalgal-bacterial consortium to be used in the decontamination of tannery industry effluents
27.	Asfa Maqbool 2016-VA-729	2019–2021	Pesticides' induced toxicity in microalgae
28.	Samuyya Latif 2018-VA-600	2019–2021	Pesticides' induced toxicity in microalgae
29.	Mirza Taha Fatima MPhil-UZE04S22	2022–2024	Mixotrophic cultivation of microalgae on sewage waste for enhancing biomass productivity and lipid yield

30.	Kashif Mehmood MS-UZE04F22	2022–2024	Microalgal biomass production optimization for photoautotrophic and mixotrophic cultivations using response surface methodology
31.	Zainab Maqsood MPhil-UZ12F22	2022–2024	Enhancing microalgal carotenoid yield through mixotrophic cultivation on sugarcane molasses
32.	Asma Younas MS-UZ13F22	2022–2024	Isolation and co-culturing of cellulolytic and lignolytic bacteria for efficient wood-waste degradation and ethanol production
33.	Sara Tariq MS-UZ08F23	2023–2025	Complete microbiome of soil plastsphere in District Lahore, Pakistan
34.	Maria Akram MS-UZE13F23	2023–2025	Periodic nitrogen starvation for enhancing lipid yield in microalgae
35.	Umm E Afza MPhil-UZ15F23	2023–2025	Microbial community structure of municipal solid waste landfill
36.	Iram Safdar MPhil-UZE03F23	2023–2025	Metal-resistant genepool of a chronic waste-dumping site in District Lahore, Pakistan

8.1.6. M. Phil. Produced (As Supervisor II)

Sr. No.	Name and Registration No.	Academic Session	Title of Dissertation
1.	Qurat Ul Ain 2014-VA-963	2014–2016	Comparative studies on egg quality, hematology and reproductive traits in ring-necked and green pheasants in captivity
2.	Sania Mehreen 2015-VA-1113	2015–2017	Interspecific variations in quality, chemical composition and hatchability of eggs in some avian species
3.	Shaista Razaq 2010-VA-525	2016–2018	Morphological and genetic variations in amphibian species captured from Changa Manga Forest, District Kasur
4.	Ali Yaser 2012-VA-863	2016–2018	Biological copper reduction from wastewater using microalgae
5.	Rabia Abbas 2012-VA-872	2016–2018	Influence of biological traits of the parent birds on egg quality and hatchability in some avian species
6.	Minhaj Fatima 2014-VA-1002	2016–2018	Impact of animal based and plant based diets on plasma lipid profile and lipid-load in human peripheral blood mono-nuclear cells
7.	Allah Ditta 2014-VA-1034	2016–2018	Determining reliability of commoner purification methods and mono-culturing techniques for microalgae
8.	Shaher Bano Nawaz 2015-VA-1366	2016–2018	Interspecific variations in parasitic prevalence and biochemical profile in some avian species
9.	Ayisha Ajmal 2012-VA-847	2017–2019	Arrangement of feathers and prophecy of flight patterns in selected avian species
10.	Muhammad Musayab Khalid 2013-VA-986	2017–2019	Assessment of indoor bio-aerosols contamination at selected animal housing facilities in District Kasur
11.	Saira Razzaq 2013-VA-989	2017–2019	Molecular identification of <i>Aeromonas hydrophila</i> from infected <i>Labeo rohita</i> and its possible antibiotic treatment under intensive culture system
12.	Maryam Riaz Khan 2015-VA-1235	2017–2019	Seasonal variations in parasitic prevalence and blood biochemical profile associated with captivity in turkeys (<i>Meleagris gallopavo</i>)

13.	Abdul Maalik 2015-VA-1284	2017–2019	Spatial distribution and molecular detection of <i>Salmonella</i> Spp. From diseased and healthy fish from Punjab, Pakistan
14.	Huma Yasin 2013-VA-977	2018–2020	Evaluation of genetic diversity and phylogenetic relationship between himalyan (<i>Gyps himalayensis</i>) and white backed vultures (<i>Gyps bengalensis</i>)
15.	Fareeha Imran 2014-VA-968	2018–2020	Point prevalence and molecular detection of ectoparasites in captive and domesticated birds of District Kasur
16.	Adeel Ahmad 2014-VA-1026	2018–2020	GIS based evaluation of population density and distribution of butterflies from the selected themes of district Kasur, Punjab, Pakistan
17.	Quratulain Ali 2015-VA-1271	2018–2020	Spatial distribution and molecular identification of <i>Aeromonas</i> Spp. Isolated from diseased fishes from district Kasur
18.	Syeda Namal Fatima 2015-VA-1278	2018–2020	Molecular investigation of phylogenetic relationships between two species of pheasants (Genus: <i>Phasianus</i>) using mitochondrial <i>Cytochrome B</i> gene sequence
19.	Komal Farooq 2015-VA-1289	2018–2020	Spatio-temporal variations of inhalable air-borne microplastics collected from street dust across district Kasur
20.	Mukhtiar Ali 2018-VA-589	2019–2021	Identification and screening of earthworm's species of district Swat and comparison of their composting potential
21.	Samreen Hashmi 2016-VA-1081	2019–2021	Prevalence and molecular identification of <i>Helicobacter pylori</i> and <i>Escherichia coli</i> from water filtration plants in Pattoki
22.	Zaheer Ahmad Babar 2016-VA-1066	2019–2021	GIS based estimation of butterfly density and diversity at selected sites in district Okara, Pakistan
23.	Muhammad Rizwan Afzal 2017-VA-1448	2019–2021	Oral microbiome of black rat (<i>Rattus rattus</i>) from district Okara
24.	Mozama Aslam 2017-VA-1452	2019–2021	Optimal mating ratio and its impact on production performance and flock management in quails (<i>Coturnix coturnix</i>)
25.	Muazzama Butt 2017-VA-1453	2019–2021	Antimicrobial sensitivity of common toad's (<i>Bufo stomaticus</i>) skin secretions against selected bacterial species
26.	Javaria 2016-VA-719	2020–2022	Study of the groundwater quality in the vicinity of Pattoki sugar mill
27.	Shaista Sharafat 2014-VA-970	2020–2022	Microbial profiling of air of selected livestock farms and associated health risks
28.	Rabia Bano MS 2000205	2020–2022	Mixotrophic cultivation of <i>Chlorella vulgaris</i> on banana peels for biodiesel production
29.	Hafsa Bibi MSF 2000230	2020–2022	Mixotrophic cultivation of <i>Chlorella vulgaris</i> on rice straw for biodiesel production
30.	Areej Ayesha 2021-VA-37	2021–2023	Isolation and identification of avian pathogenic <i>Escherichia coli</i> from colibacillosis in broiler and its associated risk factor
31.	Amna Iqbal MSF2203548	2022–2024	Bioremediation of textile waste using <i>Chlorella vulgaris</i>
32.	Aisha Iqbal MSF2203549	2022–2024	Pilot-scale remediation of chromium wastewater by using microalgae
33.	Iqra Rani	2022–2024	Mixotrophic cultivation of microalgae in mixture of sugarcane

	2004-GCUL-FBFA-22		bagasse and molasses
34.	Muhammad Javed Khan 2022-GCUL-FBFA-2003	2022–2024	Geographic information system based bioethanol production potential of microalgae in District Okara, Punjab, Pakistan
35.	Rizwana 23-UE-12287	2023–2025	Microbial conversion of spent microalgal biomass into biofortified compost

8.1.7. M. Phil. Under Supervision (As Supervisor I)

Sr. No.	Name and Registration No.	Academic Session	Title of Dissertation
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8.1.8. M. Phil. Under Supervision (As Supervisor II)

Sr. No.	Name and Registration No.	Academic Session	Title of Dissertation
1.	Rizwana 23-UE-12287	2023–2025	Microbial conversion of spent microalgal biomass into biofortified compost

8.2. Undergraduate Supervision

8.2.1. M. Sc. Produced

Sr. No.	Name and Registration No.	Academic Session	Title of Dissertation
1.	Sidra Atta 2014-VA-1014	2014–2016	Bioaccumulation of pesticide residues in different tissues of <i>Wallago attu</i> sampled from agriculturally impacted segment of the Ravi, Pakistan
2.	Khizra Ijaz 2014-VA-1015	2014–2016	Bioaccumulation of metal ions in different tissues of <i>Wallago attu</i> sampled from anthropogenically impacted segments of the Ravi, Pakistan
3.	Muhammad Shahid 2014-VA-1032	2014–2016	Microbiologically influenced corrosion of carbon steel in fluid, semi-fluid and solid media
4.	Muhammad Jamil 2014-VA-1038	2014–2016	A long term study on corrosion behavior of mild steel by two bacterial antagonists
5.	Muhammad Muneeb 2014-VA-1049	2014–2016	Concomitant treatment of tannery and paper mill effluents by highly metal-resistant sulfate-reducing bacteria
6.	Sanaullah Sattar 2014-VA-1110	2014–2016	Microbiologically influenced corrosion of mild steel in fluid, semi-fluid and solid media
7.	Imania Ghaffar 2014-VA-1126	2014–2016	Toxicity of sulfate to mesophilic sulfate-reducing bacteria
8.	Muhammad Adil Nadeem 2015-VA-1237	2015–2017	Prevalence of multiple-metal (Cu, Cr, Ni)-resistant bacteria in air column at different localities of Lahore, Pakistan
9.	Maham Parvaiz	2015–2017	Removal of bromophenol blue (textile dye) from artificially-prepared

	2015-VA-1264		wastewater using microalgal-bacterial consortium
10.	Urwa Tul Wusqa 2015-VA-1283	2015–2017	Evaluation of bacterial profile and biodegradation potential of abattoir wastewater
11.	Zarqa Shamshad 2015-VA-1298	2015–2017	Removal of methyl red (textile dye) from artificially-prepared wastewater using microalgal-bacterial consortium
12.	Nadeem Abbas 2015-VA-1303	2015–2017	Prevalence of multiple-metal (Fe, Pb, Zn)-resistant bacteria in air column at different localities of Lahore, Pakistan
13.	Areeba Kanwal 2016-VA-867	2016–2018	Lipidomic analysis of macroalgal strain isolated from wastewater
14.	Sara Hassan 2016-VA-877	2016–2018	Lipidomic analysis of <i>Chlorella vulgaris</i> isolated from wastewater stream
15.	Zunaira Tabassum 2016-VA-1030	2016–2018	Antimicrobial effects of different natural products against dandruff (<i>Malassezia furfur</i>)
16.	Sana Khalil 2016-VA-1055	2016–2018	Antimicrobial effects of some herbal extracts against <i>Staphylococcus aureus</i>
17.	Amber 2016-VA-1057	2016–2018	Assessment of antifungal potential of different shampoos against dandruff
18.	Tahira Yasmeen 2016-VA-1058	2016–2018	Isolation and molecular characterization of feather-degrading fungus
19.	Hira Afzal 2016-VA-1059	2016–2018	Antimicrobial effects of different herbal oils against dandruff (<i>Malassezia furfur</i>)
20.	Syeda Tahira Gilani 2017-VA-1203	2017–2019	Pathogenic bacterial load in common oriental snacks
21.	Anam Shah 2017-VA-1464	2017–2019	Precipitation of toxic metal ions using sulfate-reducing bacteria
22.	Sonia Riaz 2017-VA-1466	2017–2019	Fungal production of cellulase using paper waste as growth substrate
23.	Shehzad Ahmad 2017-VA-1471	2017–2019	Fungal production of cellulase using banana peels as growth substrate
24.	Iqra Shehzadi 2017-VA-1484	2017–2019	Bioprecipitation of toxic metals using sulfate-reducing bacteria
25.	Ishrat Fatima 2017-VA-1485	2017–2019	Fungal production of cellulase using orange peels as growth substrate
26.	Areeba Ahmad 2017-VA-1545	2017–2019	Fungal production of cellulase from pressmud
27.	Tanzeela Israeel Khan 2017-VA-1546	2017–2019	Fungal production of cellulase using dried microalgal biomass as growth substrate
28.	Aqsa Afzal 2017-VA-1547	2017–2019	Fungal production of cellulase using tissue waste as growth substrate
29.	Muhammad Rizwan 2017-VA-1548	2017–2019	Fungal production of cellulase using leaf litter as growth substrate
30.	Nazish Qayyum 2017-VA-1549	2017–2019	Fungal production of cellulase using sawdust as growth substrate

31.	Samuyya Latif 2018-VA-600	2018–2020	Toxic effects of mercury and lead on growth of microalgae
32.	Taimia Shafqat 2018-VA-1311	2018–2020	Cytotoxic effects of chromium and copper on freshwater microalgae
33.	Sadia Rasool 2018-VA-1425	2018–2020	Toxic effects of zinc and nickel on the growth of freshwater microalgae
34.	Rubab Fatima 2018-VA-1498	2018–2020	Bioprecipitation of toxic metals using sulfate-reducing bacteria
35.	Jaweria Ghaffar 2018-VA-1587	2018–2020	Characterization of microalgae-based monocultures and mixed cultures for biomass production and wastewater treatment

8.2.2. B.S. Produced

Sr. No.	Name and Registration No.	Academic Session	Title of Dissertation
1.	Ali Yaser 2012-VA-863	2012–2016	Toxic effects of dissolved copper on <i>Desulfovibrio desulfuricans</i> -HAQ3 isolated from a wastewater channel in Pakistan
2.	Qumar-un-Nisa 2012-VA-867	2012–2016	Toxicity of sulfate to thermophilic sulfate-reducing bacteria
3.	Maheen Khalid 2012-VA-868	2012–2016	Isolation and characterization of sulphate-reducing bacteria from corroded metallic installments
4.	Adeel Ahmad 2012-VA-876	2012–2016	The production and purification of cellulase from <i>Asperigiluss niger</i> using rice polish as a substrate
5.	Abeer 2013-VA-955	2013–2017	Isolation and characterization of sulfate-reducing bacteria from highly polluted wastewaters in Pakistan
6.	Sonia Saleem 2013-VA-971	2013–2017	Removal of malachite green (textile dye) from artificially-prepared wastewater using microalgal-bacterial consortium
7.	Barera Rani 2014-VA-980	2014–2018	Antimicrobial effects of spices against <i>Staphylococcus aureus</i>
8.	Faiza Khurshid 2014-VA-1095	2014–2018	Production of bioethanol using wheat straw as growth substrate
9.	Ahmad Amin 2014-VA-1101	2014–2018	Production of bioethanol using kitchen waste as an economical growth substrate
10.	Mudasar Hussain 2015-VA-663	2015–2019	Isolation and molecular identification of sulfate-reducing bacteria from highly polluted sewage water
11.	Muhammad Ajmal 2015-VA-664	2015–2019	Isolation and phenotypic characterization of sulfate-reducing bacteria from highly polluted sewage water
12.	Iram Bukhari 2016-VA-726	2016–2020	Fungal production of cellulose using tissue waste as growth substrate
13.	Sehar Zahid Z19-14	2019–2023	Biomass productivity of <i>Chlorella vulgaris</i> by using pressmud hydrolysate as an organic carbon source
14.	Muskan BS5M07F21	2021–2023	Antifungal potential of different herbal oils against dandruff (<i>Malassezia furfur</i>)
15.	Swaira Kanwal	2020–2024	Isolation and characterization of lignolytic bacteria from wood waste

	Z20-09		
16.	Kashaf Gul BS5M15F22	2022–2024	Isolation and identification of cellulolytic bacteria from decaying wood
17.	Maham Amjad Z21-04	2021–2025	Microbial load in dish-rinsing water from oriental snack shops in District Lahore, Pakistan
18.	Huda Gull BS5M17F23	2023–2025	Microbial load in drinking water filtration system in District Lahore, Pakistan

8.3. Research Consultancies / Field Exposure

Sr. No.	Research Task / Project	Duration
1.	Conducted Study on Migration Pattern and Characteristics of Fish Habitats Under Low Flow Season for Dasu Hydropower Project	January, 2015
2.	Conducted Base-line Survey for Fisheries and Macroinvertebrates for the Karot Hydropower Project	April, 2015
3.	Conducted Base-line Survey for Fisheries at Tarbela Dam (5 th Extension), District Haripur and Sawabi, Pakistan	May, 2015

MEMBERSHIPS

9.1. Memberships of Administrative Bodies

Sr. No.	Description
1.	Focal Person of Zoology, Faculty of Fisheries and Wildlife, University of Veterinary and Animal Sciences, Lahore, Pakistan (September 01, 2016 to May 31, 2022)
2.	Member of Grievance Committee, Faculty of Fisheries and Wildlife, University of Veterinary and Animal Sciences, Lahore, Pakistan (June 21, 2017 to May 31, 2022)
3.	Member of Departmental Purchase / Inspection Committee, Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore, Pakistan (June 08, 2018 to May 31, 2022)
4.	Member of House Allotment Committee, University of Veterinary and Animal Sciences, Lahore (Ravi Campus, Pattoki), Pakistan (January 26, 2021 to May 31, 2022)
5.	Assistant Superintendent, Boys Hostel No. 15, University of the Punjab, Lahore, Pakistan (August 17, 2022 to August 16, 2024)
6.	In-Charge Institutional Sports, Institute of Zoology, University of the Punjab, Lahore, Pakistan (July 29, 2022 to date)
7.	Focal Person for Dengue, Institute of Zoology, University of the Punjab, Lahore, Pakistan (May 31, 2023 to date)
8.	Focal Person for Career Counselling & Placement Centre, Institute of Zoology, University of the Punjab, Lahore, Pakistan (January 29, 2024 to date)
9.	Assistant Superintendent, Boys Hostel No. 17, University of the Punjab, Lahore, Pakistan (December 03, 2024 to August 17, 2025)
10.	Assistant Superintendent, Boys Hostel No. 07, University of the Punjab, Lahore, Pakistan (August 18, 2025 to date)
11.	Focal Person for IT-Related Services, Institute of Zoology, University of the Punjab, Lahore, Pakistan (November 20, 2025 to date)

9.2. Memberships of Statutory Bodies

Sr. No.	Description
1.	Member of Departmental Board of Studies, Department of Fisheries and Aquaculture, University of Veterinary and Animal Sciences, Lahore, Pakistan (October 24, 2014 to June 03, 2015)
2.	Member of Faculty Board of Studies, Faculty of Fisheries and Wildlife, University of Veterinary and Animal Sciences, Lahore, Pakistan (March 04, 2015 to May 31, 2022)
3.	Member of Departmental Board of Studies, Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore, Pakistan (June 04, 2015 to May 31, 2022)
4.	Secretary of Faculty Board of Studies, Faculty of Fisheries and Wildlife, University of Veterinary and Animal Sciences, Lahore, Pakistan (August 02, 2018 to November 08, 2019)
5.	Member of Departmental Board of Studies, Department of Biological Sciences, University of Okara, Okara, Pakistan (September 03, 2018 to date)
6.	Member of the Board of Studies in Zoology, Institute of Zoology, University of the Punjab, Lahore, Pakistan (November 15, 2022 to date)
7.	Member of the Board of Studies in Zoology, Department of Zoology, University of Mianwali, Mianwali, Pakistan (February 14, 2024 to date)

8.	Member of the Board of Studies in Zoology, Department of Zoology, University of Central Punjab, Lahore, Pakistan (June 11, 2024 to date)
9.	Member of the Board of Studies in Zoology, Discipline of Zoology, Department of Biological and Chemical Sciences, University of Rasul, Mandi-Sarai Alamgir Road, Rasul, Pakistan (October 29, 2025 to date)

9.3. Memberships of Research Advisory Committees

Sr. No.	Description
1.	Member of Faculty Synopsis Scrutiny Committee, Faculty of Fisheries and Wildlife, University of Veterinary and Animal Sciences, Lahore, Pakistan (April 05, 2017 to August 25, 2019)
2.	Member of Institutional Doctoral Programme Coordination Committee, Institute of Zoology, University of the Punjab, Lahore, Pakistan (June 01, 2022 to date)

9.4. Memberships of Learned Societies

Sr. No.	Description
1.	Regular member of UVAS Wildlife Society
2.	Regular Member of Society for Anaerobic Microbiology (SAM)
3.	Regular Member of National Academy of Young Scientist (NAYS)
4.	Life Fellow of Pakistan Game Fish Association
5.	Life Fellow of World Environmental Organization

CONFERENCES / SEMINARS / TRAININGS / WORKSHOPS

1. Participated in a 1-day symposium on **“DNA BARCODING: A PROMISING TOOL FOR SPECIES IDENTIFICATION AND BIODIVERSITY DIGITIZATION”** organized by National Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad, Pakistan, held on January 20, 2012.
2. Participated and made oral presentation in the **“32ND PAKISTAN CONGRESS OF ZOOLOGY (INTERNATIONAL)”** organized by Department of Zoology, Government College University, Lahore, Pakistan, held on March 06–08, 2012.
3. Participated in a 2-day workshop on **“BIO-CLEAN COAL TECHNOLOGIES: A STEP TOWARDS THE USE OF INDIGENOUS RESOURCES OF COAL”** organized by National Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad, Pakistan, held on November 07–08, 2012.
4. Participated in a 2-day workshop on **“WATER POLLUTION AND ITS MITIGATION”** organized by Department of Wildlife and Fisheries, Government College University, Faisalabad, Pakistan in collaboration with Newcastle University, UK under HEC-BC funded INSPIRE Project SP-174, held on December 19–20, 2012.
5. Participated and made oral presentation in the **“33RD PAKISTAN CONGRESS OF ZOOLOGY (INTERNATIONAL)”** jointly organized by Pakistan Museum of Natural History, Islamabad and PMAS Arid Agriculture University, Rawalpindi, Pakistan, held on April 02–04, 2013.
6. Participated in a 1-day seminar on **“BIODIVERSITY OFFSETTING FOR RESERVOIR FISHERIES”** organized by Department of Fisheries, Government of the Punjab held at Fish Biodiversity Hatchery Chashma, Mianwali, held on April 02, 2015.
7. Actively participated as resource person in a 3-day hands-on-training on **“ANIMAL STUFFING AND TAXIDERMISTRY TECHNIQUES”** jointly organized by Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore, Pakistan, UVAS Wildlife Society, Pakistan Wildlife Foundation and Kalabagh Wildlife Foundation, held on June 24–26, 2015.
8. Participated as member of organizing committee in a 2-day hands-on-training on **“ZOO ANIMALS’ KEEPING, ZOONOSES AND BIO-SAFETY MEASURES”** jointly organized by Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore, Pakistan, UVAS Wildlife Society, Pakistan Wildlife Foundation, National Academy of Young Scientists and Advancing Science Serving Society, held on August 27–28, 2015.
9. Participated in a 2-day 5th international conference and exhibition on **“HALAL CULTURE AND TRADE-STRATEGIC GAME CHANGERS FOR WORLD PEACE AND ECONOMIC PROSPERITY”** organized by Punjab Halal Development Agency, Lahore, held on April 12–13, 2016.
10. Participated as member of organizing committee in a 2-day hands-on-training on **“OSTRICH FARMING”** jointly organized by Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore, Pakistan and Pakistan Ostrich Company, held on April 20–21, 2016.
11. Participated in a 4-day workshop on **“BASIC BIOLOGICAL TECHNIQUES”** organized by Department of Zoology, Faculty of Science and Technology, Government College Women University, Faisalabad, held on May 04–07, 2016.
12. Participated in a 1-week training entitled **“IN-SERVICE SHORT TERM TRAINING OF UNIVERSITY AND COLLEGE FACULTY”** on **“ANDRAGOGICAL AND COMMUNICATION SKILLS”** jointly organized by Punjab Higher Education Commission and Centre for Educational Policy and Administration (CEPA), University of Veterinary and Animal Sciences, Lahore, Pakistan, held on May 16–20, 2016.
13. Participated as resource person in a 1-week training entitled **“IN-SERVICE SHORT TERM TRAINING OF UNIVERSITY AND COLLEGE FACULTY”** on **“ANDRAGOGICAL AND COMMUNICATION SKILLS”** organized by Faculty of Fisheries and Wildlife, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on August 01–05, 2016.
14. Participated in a 3-day workshop on **“ADVANCED LEARNING OF ARTIFICIAL INSEMINATION IN CHICKEN: AN EMERGING TREND IN PAKISTAN POULTRY INDUSTRY”** organized by Department of Poultry Production, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on September 27–29, 2016.
15. Participated in a 2-day 1st national conference on **“RECENT ADVANCES IN FUNCTIONAL FOODS”**

organized by Department of Dairy Technology, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on October 05–06, 2016.

16. Participated as secretary of organizing committee in a 1-day hands-on-training on **“LABORATORY BIOSAFETY”** jointly organized by Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore, Pakistan and American Society for Microbiology, held on November 03, 2016.
17. Participated in a 1-day seminar on **“WORLD FISHERIES DAY”** organized by Department of Fisheries and Aquaculture, University of Veterinary and Animal Sciences, Lahore, Pakistan in collaboration with HEC-BC KEP Project, held on November 21, 2016.
18. Participated in a 2-day hands-on-training on **“WILDLIFE PHOTOGRAPHY”** jointly organized by Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore, Pakistan, UVAS Wildlife Society and Pakistan Wildlife Foundation, held on November 24–25, 2016.
19. Participated in a 2-day 6th international fisheries symposium and expo-2017 on **“INNOVATIVE AND SUSTAINABLE AQUACULTURE FOR BLUE REVOLUTION”** jointly organized by Department of Fisheries and Aquaculture, University of Veterinary and Animal Sciences, Lahore, Pakistan and Pakistan Fisheries Society, held on February 08–09, 2017.
20. Participated and made oral presentation in the **“37TH PAKISTAN CONGRESS OF ZOOLOGY (INTERNATIONAL)”** organized by Government College University, Faisalabad, Pakistan, held on February 28 – March 02, 2017.
21. Participated in a 1-week international workshop on **“TECHNICAL TRAINING AND SKILLS DEVELOPMENT IN ANIMAL KEEPING”** organized by Department of Zoology, University of the Punjab, Lahore, Pakistan, held on March 27–31, 2017.
22. Participated in a 3-day **“INTERNATIONAL POULTRY EXPO-2017”** organized by Pakistan Poultry Association and Department of Poultry Production and Technology, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on August 24–26, 2017.
23. Participated in a 2-day conference on **“RECENT TRENDS IN FOOD PROCESSING AND TECHNOLOGY”** organized by Department of Dairy Technology, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on November 15–16, 2017.
24. Participated in a 1-day seminar on **“WORLD FISHERIES DAY”** organized by Department of Fisheries and Aquaculture, University of Veterinary and Animal Sciences, Lahore, Pakistan in collaboration with HEC-BC KEP Project and ASA FEEDING Pakistan, held on November 24, 2017.
25. Participated in a 2-day 2nd international conference on **“INNOVATIVE BIOLOGICAL AND PUBLIC HEALTH RESEARCH”** organized by Department of Zoology, Government College University, Lahore, Pakistan, held on December 06–07, 2017.
26. Participated as secretary of organizing committee in a 1-day training on **“TAXIDERMY”** organized by Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on December 28, 2017.
27. Participated in a 2-day workshop on **“CHALLENGES AND SOLUTIONS FOR THE INTEGRATED MANAGEMENT OF DESERT ECOSYSTEM”** organized by Islamia University of Bahawalpur, Pakistan, held on January 16–17, 2018.
28. Participated in a 1-day hands-on training entitled **“TAXIDERMY TECHNIQUES”** organized by Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on February 13, 2018.
29. Participated in a 1-day training workshop on **“TECHNIQUES FOR SPECIES CONSERVATION AND MONITORING FOR ECOSYSTEM HEALTH”** organized by Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on April 20, 2018.
30. Participated as secretary of organizing committee in a 1-day workshop on **“LABORATORY BIOSAFETY AND BIOSECURITY”** organized by Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on May 04, 2018.
31. Participated in a 1-day international seminar on **“RECENT ADVANCES IN ZOOLOGICAL SCIENCES”** organized by Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on May 10, 2018.
32. Participated as secretary of organizing committee in a 1-day hands-on training on **“HONEYBEE KEEPING AND**

- MANAGEMENT”** organized by Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on October 20, 2018.
33. Participated in a 2-day conference on **“TRENDS AND INNOVATION IN FOOD PROCESSING TECHNOLOGY: PROSPECTS AND CHALLENGES”** organized by Department of Dairy Technology, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on November 07–08, 2018.
 34. Participated in a 1-day hands-on training workshop on **“RECYCLING OF DOMESTIC WASTE INTO ORGANIC FERTILIZER USING COMPOST BINS”** organized by Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on November 23, 2018.
 35. Participated in a 1-day workshop on **“MUSHROOM CULTIVATION”** organized by Discipline of Botany, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on December 28, 2018.
 36. Participated as secretary of organizing committee in a 1-day seminar on **“FISH DISEASES AND CONTROL STRATEGIES”** organized by Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on January 28, 2019.
 37. Participated in a 2-day **“INTERNATIONAL FISHERIES AND AQUACULTURE CONFERENCE”** organized by Department of Fisheries and Aquaculture, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on January 30–31, 2019.
 38. Participated in a 1-day seminar on **“WORLD WILDLIFE DAY”** organized by Jallo Wildlife Breeding Farm, Punjab Wildlife and Parks Department, held on March 03, 2019.
 39. Participated in a 1-day hands-on training workshop on **“TECHNIQUES FOR WET AND DRY PRESERVATION METHODOLOGIES FOR MUSEUM SPECIMEN”** jointly organized by Department of Wildlife and Ecology and Department of Fisheries and Aquaculture, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on March 06, 2019.
 40. Participated in a 2-day hands-on training workshop on **“SANGER SEQUENCING DATA ANALYSIS”** organized by Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on April 10–11, 2019.
 41. Participated in a 1-day seminar on **“OPTIMIZING BROILER BREEDER EFFICIENCY THROUGH EMERGENT SKILLS”** jointly organized by World’s Poultry Science Association, Pakistan (Northern Zone) and Poultry Science Club, Department of Poultry Production, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on April 11, 2019.
 42. Participated in a 1-day seminar on **“UTILIZATION OF POULTRY WASTE AS AN AGRICULTURE FERTILIZER”** organized by Department of Poultry Production, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on April 16, 2019.
 43. Participated as secretary of organizing committee in a 1-day seminar on **“PAKISTAN SNOW LEOPARD AND ECOSYSTEM PROTECTION PROGRAM (PSLEP)”** organized by Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on April 23, 2019.
 44. Participated in a 1-day seminar on **“BOTANICAL GARDEN-LIVING OF RESEARCH AND RECREATION”** organized by Department of Biological Sciences, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on July 12, 2019.
 45. Participated as resource person in a 1-day seminar on **“INTEGRATED PEST MANAGEMENT (IPM)”** organized by Department of Poultry Production, University of Veterinary and Animal Sciences, Lahore, Pakistan and Pestex Environmental Science, Pakistan, held on September 24, 2019.
 46. Participated in a 1-day seminar on **“ENTOSIS AND CELLULAR CANNIBALISM: A NOVEL CELL DEATH PROCESS THAT OCCURS BY CELL-IN-CELL INTERNALIZATION”** organized by Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on November 08, 2019.
 47. Participated in a 1-day workshop on **“REFERENCE AND CITATION MANAGEMENT USING MENDELEY”** organized by Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on November 14, 2019.
 48. Participated as resource person in a 1-day workshop on **“HONEYBEE FARMING”** organized by Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on November 22, 2019.

49. Participated as resource person in a 1-day workshop on **“HANDS-ON-TRAINING OF GLOBAL POSITIONING SYSTEM (GPS) IN WILDLIFE MANAGEMENT”** organized by Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on November 28, 2019.
50. Participated in a 1-day workshop on **“MUSHROOM CULTIVATION TECHNIQUES”** organized by Department of Biological Sciences, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on November 29, 2019.
51. Participated as secretary of organizing committee in a 1-day training workshop on **“PREVENTION & CONTROL OF DENGUE”** jointly organized by Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore, Pakistan, District Health Authority, Kasur and Primary and Secondary Healthcare Department, Government of Punjab, Pakistan, held on December 02, 2019.
52. Participated as resource person in a 1-day workshop on **“SNAKE BITE MANAGEMENT”** organized by Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on February 19, 2020.
53. Participated as secretary of organizing committee in a 1-day workshop on **“SUSTAINING ALL LIFE ON EARTH”** organized by Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on March 03, 2020.
54. Participated in a 1-day seminar on **“AWARENESS ABOUT THE NOVEL CORONA VIRUS (2019-nCoV) AND THE CORONA VIRUS DISEASE (COVID-19)”** organized by Faculty of Fisheries and Wildlife, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on April 11, 2020.
55. Participated in a 1-day seminar on **“WORLD FISHERIES DAY”** organized by Department of Fisheries and Aquaculture, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on November 23, 2020.
56. Participated as secretary of organizing committee in a 1-day seminar on **“CELL CYCLE CHECKPOINTS, GENETIC INSTABILITY AND CANCER”** organized by Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on December 16, 2020.
57. Participated as resource person in a 1-day webinar on **“WILDLIFE LAWS AND LAGISLATIONS IN PUNJAB, PAKISTAN”** organized by Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on December 23, 2020.
58. Participated in a 1-day seminar on **“APPLICATIONS OF CRISPR GENES EDITING TOOL IN ANIMALS, FUNGI AND PLANTS”** organized by Department of Biological Sciences, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on December 28, 2020.
59. Participated in a 1-day seminar on **“MOLECULAR PHYLOGENETICS AND ITS APPLICATIONS”** organized by Department of Biological Sciences, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on December 29, 2020.
60. Participated in a 1-day seminar on **“MOLECULAR IDENTIFICATION OF LICHENS AND THEIR ROLE IN ENVIRONMENTAL MONITORING”** organized by Department of Biological Sciences, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on December 30, 2020.
61. Participated in a 1-day seminar on **“TECHNIQUES IN PALEONTOLOGY”** organized by Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on February 02, 2021.
62. Participated as secretary of organizing committee in a 1-day seminar on **“FORESTS AND LIVELIHOODS: SUSTAINING PEOPLE AND PLANET”** organized by Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on March 03, 2021.
63. Participated in a 1-day seminar on **“APPLICATIONS OF REMOTE SENSING & GIS IN LIFE SCIENCES”** organized by Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on March 22, 2021.
64. Participated as secretary of organizing committee in a 1-day hands-on training workshop on **“TAXIDERMISTRY TECHNIQUES”** organized by Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on August 09, 2021.
65. Participated as resource person in a 1-day international webinar on **“AVIAN CONSERVATION: ISSUES AND OPTIONS”** organized by Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on August 09, 2021.
66. Participated in a 1-day international seminar on **“PLANT BIODIVERSITY AND ECOSYSTEM SERVICES”**

organized by Department of Biological Sciences, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on September 08, 2021.

67. Participated in a 1-day international online seminar on **“AQUACULTURE DISEASE AND HEALTH MANAGEMENT”** organized by Department of Fisheries and Aquaculture, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on October 06, 2021.
68. Participated in a 1-day international webinar on **“MODERN TECHNOLOGIES IN AQUACULTURE: PERILS AND POTENTIALS”** organized by Department of Fisheries and Aquaculture, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on November 16, 2021.
69. Participated and made oral presentation in the **“1ST INTERNATIONAL CONFERENCE ON WATER, ENERGY & ENVIRONMENT”** organized by ISET Research India in association with IEI Vietnam, held on December 23 & 24, 2021.
70. Participated in a 1-day seminar on **“RECOVERING KEY SPECIES FOR ECOSYSTEM RESTORATION”** organized by Department of Wildlife and Ecology, University of Veterinary and Animal Sciences, Lahore, Pakistan, held on March 03, 2022.
71. Participated in a 2-day international conference on **“NEW TRENDS IN BIOLOGICAL SCIENCES”** organized by Institute of Pure and Applied Zoology (IPAZ) / School of Applied Biology (SAB), Faculty of Life Sciences, University of Okara, Okara, Pakistan, held on January 16 & 17, 2023.
72. Participated as secretary of organizing committee in a 2-day international conference on **“PAKISTAN-CHINA BELT & ROAD ADVANCEMENT TOWARDS MODERN AQUACULTURE”** organized by Institute of Zoology, University of the Punjab, Lahore, Pakistan, held on February 08 & 09, 2023.
73. Participated as member of organizing committee in the **“41ST PAKISTAN CONGRESS OF ZOOLOGY (INTERNATIONAL)”** organized by Institute of Zoology, University of the Punjab, Lahore, Pakistan, held on March 16–18, 2023.
74. Participated as co-chairman during academic session in the **“41ST PAKISTAN CONGRESS OF ZOOLOGY (INTERNATIONAL)”** organized by Institute of Zoology, University of the Punjab, Lahore, Pakistan, held on March 16–18, 2023.
75. Participated in a 1-day 17th national hands-on workshop on **“ORGANIC BEEKEEPING PRACTICES”** jointly organized by Institute of Zoology and Office of Research Innovation and Commercialization, University of the Punjab, Lahore, Pakistan, held on November 06–14, 2023.
76. Participated in a 1-day seminar on **“WORLD FISHERIES DAY-2023”** organized by Institute of Zoology, University of the Punjab, Lahore, Pakistan, held on December 18, 2023.
77. Participated in a 3-day hands-on-training on **“INTRICACIES OF RNA-SEQ DATA ANALYSIS”** organized by School of Biochemistry and Biotechnology, University of the Punjab, Lahore, Pakistan, held on March 06–08, 2024.
78. Participated and made oral presentation in the 3rd international conference (hybrid) of zoology on **“ZOOLOGICAL EMERGING SCIENTIFIC TRENDS (ZEST-2024)”** organized by Department of Zoology, Division of Science and Technology, University of Education, Lahore, Pakistan, held on October 16–17, 2024.
79. Participated in a 2-day training hands-on workshop on **“PATENT WRITING/DRAFTING AND SUBMISSION”** organized by Punjab Higher Education Commission, Lahore, Pakistan, held on November 06–07, 2024.
80. Participated in a 1-week international phycological training workshop on **“IDENTIFICATION OF FRESHWATER MICROALGAE & BIOTECHNOLOGY”** organized by Institute of Botany, University of the Punjab, Lahore, Pakistan, held on November 11–15, 2024.
81. Participated as member of organizing committee in a 1-day seminar on **“WORLD FISHERIES DAY-2024”** organized by Institute of Zoology, University of the Punjab, Lahore, Pakistan, held on December 11, 2024.
82. Participated in a 2-day training workshop on **“A BEGINNER’S OVERVIEW OF NGS DATA ANALYSIS: GENOMIC ASSEMBLY, ANNOTATION AND COMPARISON”** organized by Department of Fisheries and Aquaculture, University of Veterinary and Animal Sciences, Ravi Campus, Pattoki, Pakistan, held on May 21–22, 2025.
83. Participated in a 1-day seminar on **“MATERIALS REVOLUTION: ADVANC MATERIALS FOR SUSTAINABLE FUTURE”** organized by Office of Research Innovation & Commercialization (ORIC),

University of the Punjab, Lahore, Pakistan, held on September 03, 2025.

84. Participated as keynote speaker in a 1-day seminar on “**STRATEGIES FOR PUBLISHING RESEARCH IN REPUTABLE JOURNALS**” organized by Department of Zoology, University of Education, Lahore (Vehari Campus), Pakistan, held on September 25, 2025.
85. Participated as session chair during academic session in the “**8th INTERNATIONAL CONFERENCE ON APPLIED ZOOLOGY (ICAZ-2025)**” organized by Institute of Zoology, University of the Punjab, Lahore, Pakistan, held on October 13–14, 2025.
86. Participated as member of organizing committee in the “**8th INTERNATIONAL CONFERENCE ON APPLIED ZOOLOGY (ICAZ-2025)**” organized by Institute of Zoology, University of the Punjab, Lahore, Pakistan, held on October 13–14, 2025.

PUBLICATIONS

11.1. Journal Articles

Sr. No.	Article Description	Latest Impact Factor
Publications before 2020		
1.	Ali Hussain , Javed Iqbal Qazi and Muhammad Ramzan Mirza, 2008. A note on fecundity of Bachwa (<i>Clupisoma naziri</i>) from the river Indus near Attock Khurd. Punjab University Journal of Zoology, 23 (1-2): 91–94.	--
2.	Ali Hussain , Javed Iqbal Qazi, Hafiz Abdullah Shakir, Muhammad Ramzan Mirza and Abdul Qayyum Nayyer, 2009. Length-weight relationship, meristic and morphometric study of <i>Clupisoma naziri</i> from the river Indus, Pakistan. Punjab University Journal of Zoology, 24 (1-2): 41–47.	--
3.	Hafiz Abdullah Shakir, Javed Iqbal Qazi, Ali Hussain and Shaukat Ali, 2010. Growth coefficient and condition factor of three carp species reared under semi-intensive culture. Punjab University Journal of Zoology, 25 (1-2): 13–20.	--
4.	Javed Iqbal Qazi, Salma Niaz and Ali Hussain , 2010. Biological chromium reduction at low pH: a preliminary study. Punjab University Journal of Zoology, 25 (1-2): 49–57.	--
5.	Abdul Majid Khan, Sana Mustafa, Hafiz Abdullah Shakir and Ali Hussain , 2011. Biochemical analysis of locally available fish feed ingredients in Lahore, Pakistan. Punjab University Journal of Zoology, 26 (1): 45–52.	--
6.	Ali Hussain and Javed Iqbal Qazi, 2012. Biological sulphate reduction using watermelon rind as a carbon source. Biologia (Pakistan), 58 (1-2): 85–92.	--
7.	Ali Hussain , Javed Iqbal Qazi, Shahid Ali, Hafiz Abdullah Shakir and Nadeemullah, 2013. Health imperilments in workers of a cutlery industrial complex from Pakistan: a preliminary survey. Biologia (Pakistan), 59 (1): 43–50.	--
8.	Ali Hussain , Arjumand Shah Bano and Javed Iqbal Qazi, 2013. Corrosion of mild steel simulating long term soil burial field conditions differing in nutritional and biotic components. World Applied Sciences Journal, 22 (7): 985–990.	--
9.	Hafiz Abdullah Shakir, Javed Iqbal Qazi, Abdul Shakoor Chaudhry, Ali Hussain and Shaukat Ali, 2013. Nutritional comparison of three fish species co-cultured in an earthen pond. Biologia (Pakistan), 59 (2): 353–356.	--
10.	Ali Hussain , Shahid Ali, Hafiz Abdullah Shakir, Javed Iqbal Qazi, Khalid Ali and Nadeemullah, 2014. Prevalence of <i>Escherichia coli</i> in milk and different milk products sold under market conditions at Lahore. Scientific Journal of Animal Science, 3 (1): 22–26.	--
11.	Ali Hussain , Javed Iqbal Qazi and Hafiz Abdullah Shakir, 2014. Implication of molasses as electron donor for biological sulphate reduction. American Journal of Environmental Engineering, 4 (1): 7–10.	--
12.	Ali Hussain , Hafiz Abdullah Shakir and Javed Iqbal Qazi, 2014. Anaerobic biodegradation of sulphate employing animal manure as a cost effective growth substrate. Journal of Animal and Plant Sciences, 24 (3): 913–918.	0.5
13.	Ali Hussain , Shahid Ali, Sumaira Aslam and Javed Iqbal Qazi, 2014. Occupational exposure to cleaning solvents among workers of screen printing units in Pakistan: a preliminary survey. Issues in Biological Sciences and Pharmaceutical Research, 2 (5): 45–48.	--
14.	Faiza Saleem, Rakhshanda Sadiq, Rooma Adalat, Ali Hussain and Javed Iqbal Qazi, 2014. Prevalence of acid and antibiotic resistant coliform bacteria in yogurt and oriental snacks	--

- sampled from markets of Lahore, Pakistan. *Biologia (Pakistan)*, **60**(1): 81–85.
15. Hafiz Abdullah Shakir, Kiran Shazadi, Javed Iqbal Qazi and **Ali Hussain**, 2014. Planktonic diversity in gut contents of *Labeo rohita* from Ravi, Pakistan reflecting urban loads on the river. *Biologia (Pakistan)*, **60**(1): 87–92. --
 16. Sumaira Aslam, Javed Iqbal Qazi, **Ali Hussain** and Shahid Ali, 2014. Vertical zonation and seed germination indices of chromium resistant cellulolytic and nitrogen fixing bacteria from a chronically chromium exposed land area. *Pakistan Journal of Botany*, **46**(6): 2257–2268. **0.9**
 17. **Ali Hussain**, Hafiz Abdullah Shakir, Shahid Ali and Javed Iqbal Qazi, 2015. Growth coefficient and fecundity of *Chitala chitala* (Osteoglossiformes: Notopteridae) from the river Ravi, Pakistan. *Journal of Animal and Plant Sciences*, **25**(2): 401–405. **0.5**
 18. **Ali Hussain**, Muhammad Ashraf, Muhammad Altaf, Waseem Ahmad Khan, Muhammad Akmal and Javed Iqbal Qazi, 2015. Relative diversity and threats to commercially important fishes of the Ravi, Pakistan. *Biologia (Pakistan)*, **61**(1): 145–149. --
 19. Muhammad Altaf, Arshad Javid, Abdul Majid Khan, **Ali Hussain**, Muhammad Umair and Zulfiqar Ali, 2015. The status of fish diversity of river Chenab, Pakistan. *Journal of Animal and Plant Sciences*, **25**(3 Supp. 2): 564–569. **0.5**
 20. Hamda Azmat, Waqas Ali, Arshad Javid, **Ali Hussain**, Syed Makhdoom Hussain, Zara Saeed and Syed Shafiq Hussain Bukhari, 2016. Chromium contamination in water, sediment and its bioaccumulation in Indian major carps in River Chenab, Pakistan. *Punjab University Journal of Zoology*, **31**(1): 83–86. --
 21. **Ali Hussain** and Javed Iqbal Qazi, 2016. Application of sugarcane bagasse for passive anaerobic biotreatment of sulphate rich wastewaters. *Applied Water Science*, **6**(2): 205–211. **5.7**
<https://doi.org/10.1007/s13201-014-0226-2>
 22. **Ali Hussain** and Javed Iqbal Qazi, 2016. Metals-induced functional stress in sulphate-reducing thermophiles. *3Biotech*, **6**(1): Article No. 17. **2.9**
<https://doi.org/10.1007/s13205-015-0342-1>
 23. **Ali Hussain**, Ali Hasan, Arshad Javid and Javed Iqbal Qazi, 2016. Exploited application of sulfate-reducing bacteria for concomitant treatment of metallic and non-metallic wastes: a mini review. *3Biotech*, **6**(2): Article No. 119. **2.9**
<https://doi.org/10.1007/s13205-016-0437-3>
 24. Sumaira Aslam, **Ali Hussain** and Javed Iqbal Qazi, 2016. Dual action of chromium-reducing and nitrogen-fixing *Bacillus megaterium*-ASN3 for improved agro-rehabilitation of chromium-stressed soils. *3Biotech*, **6**(2): Article No. 125. **2.9**
<https://doi.org/10.1007/s13205-016-0443-5>
 25. Adeel Hassan, **Ali Hussain**, Faiza Jabeen, Maleeha Manzoor and Zahida Nasreen, 2016. Advanced techniques for food preservation: a review. *Journal of Food Safety and Hygiene*, **2**(3-4): 47–53. --
 26. Mohammad Salim, Arshad Javid, **Ali Hussain**, Faiz-ur-Rahman, Farmanullah and Hamidullah, 2016. Distribution records of fruit bats *Cynopterus sphinx* and *Rousettus leschenaultii* from Khyber Pakhtunkhwa, Pakistan. *Punjab University Journal of Zoology*, **31**(2): 149–157. --
 27. Mohammad Salim, Arshad Javid, **Ali Hussain**, Faiz-ur-Rahman and Hamidullah, 2016. First provincial record of desert yellow bat *Scotoecus pallidus* (Dobson, 1876) from Khyber Pakhtunkhwa, Pakistan. *Punjab University Journal of Zoology*, **31**(2): 171–175. --
 28. **Ali Hussain**, Shahid Ali, Abdul Majid Khan, Ali Hassan, and Javed Iqbal Qazi, 2017. Length-weight relationships of native Indian major carps from an anthropogenically affected segment of the Ravi, Pakistan. *Journal of Wildlife and Ecology*, **1**(1): 1–7. --
 29. Muhammad Anwar Iqbal, **Ali Hussain**, Nabila Roohi, Muhammad Irshad Arshad and Omaima Khan, 2017. Effects of mannan-oligosaccharides-supplemented diets on production performance of four close-bred flocks of Japanese quail breeders. *South African Journal of Animal Science*, **47**(3): 290–297. **0.6**
<https://doi.org/10.4314/sajas.v47i3.5>

30. Muhammad Anwar Iqbal, **Ali Hussain**, Nabila Roohi, Muhammad Irshad Arshad, Omaima Khan and Qazi Adnan Ahmad, 2017. Effects of mannan-oligosaccharides' supplementation on hatching characteristics of four close-bred flocks of Japanese quail breeders. *South African Journal of Animal Science*, **47**(5): 672–678.
<https://doi.org/10.4314/sajas.v47i5.10> **0.6**
31. Muhammad Imran, Zahid Anwar, Muhammad Irshad, Arshad Javid, **Ali Hussain** and Shahzad Ali, 2017. Optimization of cellulase production from a novel strain of *Aspergillus tubingensis* IMMIS2 through response surface methodology. *Biocatalysis and Agricultural Biotechnology*, **12**: 191–198.
<https://doi.org/10.1016/j.bcab.2017.10.005> **3.8**
32. Waqas Ali, Arshad Javid, Waseem Ahmad Khan, **Ali Hussain**, Muhammad Rizwan, Mubeen Ameer and Abdul Qadeer Sajid, 2017. Diversity and habitat preferences of herpetofauna at Kalabagh Game Reserve, District Mianwali, Punjab, Pakistan. *Russian Journal of Herpetology*, **24**(4): 267–274. **0.9**
33. Waqas Ali, Arshad Javid, **Ali Hussain** and Syed Mohsin Bukhari, 2017. Public attitude towards amphibian and reptiles in district Kasur, Punjab, Pakistan. *Punjab University Journal of Zoology*, **32**(2): 173–178. --
34. Waqas Ali, Arshad Javid, **Ali Hussain** and Syed Mohsin Bukhari, 2018. Diversity and habitat preferences of amphibians and reptiles in Pakistan: a review. *Journal of Asia-Pacific Biodiversity*, **11**(2): 173–187. **0.6***
(See Note 1 at End of the Publication List)
<https://doi.org/10.1016/j.japb.2018.01.009>
35. Maryyum Khalil, Hamda Azmat, Noor Khan, Arshad Javid, **Ali Hussain**, Syed Makhdoom Hussain, Asim Ullah and Sumaira Abbas, 2018. Growth responses of striped catfish *Pangasianodon hypophthalmus* (Sauvage, 1878) to exogenous enzyme added feed. *Pakistan Journal of Zoology*, **50**(2): 685–693. **0.5***
(See Note 2 at End of the Publication List)
<https://doi.org/10.17582/journal.pjz/2018.50.2.685.693>
36. Waqas Ali, Arshad Javid, Syed Mohsin Bukhari, **Ali Hussain**, Syed Makhdoom Hussain and Hira Rafique, 2018. Comparison of different trapping techniques used in herpetofaunal monitoring: a review. *Punjab University Journal of Zoology*, **33**(1): 57–68. --
37. Waqas Ali, Arshad Javid, **Ali Hussain** and Syed Mohsin Bukhari, 2018. Diversity and conservation of freshwater turtles in Pakistan: a review. *Biodiversity*, **19**(1-2): 62–71. --
<https://doi.org/10.1080/14888386.2018.1468820>
38. Muhammad Anwar Iqbal, Habib Rehman, **Ali Hussain**, Faiza Jabeen, Ijaz Ahmad, Kamran Ashraf, Muhammad Irshad Arshad and Omaima Khan, 2018. Effect of supplementation of mannan-oligosaccharides on growth performance, viscera development, mineral absorption and caecal microbiota of Japanese quail (*Coturnix coturnix japonica*). *Pakistan Journal of Zoology*, **50**(5): 1937–1943. **0.5***
(See Note 2 at End of the Publication List)
<http://dx.doi.org/10.17582/journal.pjz/2018.50.5.1937.1943>
39. Faiza Jabeen, **Ali Hussain**, Maleeha Manzoor, Tahira Younis, Azhar Rasul and Javed Iqbal Qazi, 2018. Potential of bacterial chitinolytic, *Stenotrophomonas maltophilia*, in biological control of termites. *Egyptian Journal of Biological Pest Control*, **28**: Article No. 86. **2.1**
<https://doi.org/10.1186/s41938-018-0092-6>
40. Imania Ghaffar, Aqsa Imtiaz, **Ali Hussain**, Arshad Javid, Faiza Jabeen, Muhammad Akmal and Javed Iqbal Qazi, 2018. Microbial production and industrial applications of keratinases: an overview. *International Microbiology*, **21**(4): 163–174. **2.3**
<https://doi.org/10.1007/s10123-018-0022-1>
41. Muhammad Hafeez-ur-Rehman, Farzana Abbas, Syedah Andleeb, Arshad Javid, **Ali Hussain**, Ghulam Abbas, Muhammad Akmal and Khalid Javed Iqbal, 2018. Effect of feed with varying dietary protein levels on growth, survival and rate of cannibalism in fry rearing of *Channa marulius*. *Pakistan Journal of Zoology, Supplementary Series No. 13*: 48–57. **0.5***
(See Note 2 at End of the Publication List)
<https://dx.doi.org/10.17582/journal.pjz/2018.SupplSer13>

42.	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 growth, hematology and biochemical profile of grass carp (<i>Ctenopharyngodon idella</i>). Pakistan Journal of Zoology, Supplementary Series No. 13 : 58–64. (0.5) https://dx.doi.org/10.17582/journal.pjz/2018.SupplSer13	0.5* (See Note 2 at End of the Publication List)
43.	Muhammad Imran, Muhammad Hafeez-ur-Rehman, Farzana Abbas, Noor Khan, Arshad Javid, Ali Hussain and Muhammad Akmal, 2018. Ichthyofaunal diversity, physicochemical and health status of fishes inhabiting the river Ravi near Balloki Headworks, Pakistan. Pakistan Journal of Zoology, Supplementary Series No. 13 : 261–269. https://dx.doi.org/10.17582/journal.pjz/2018.SupplSer13	0.5* (See Note 2 at End of the Publication List)
44.	Sumaira Aslam, Ali Hussain and Javed Iqbal Qazi, 2019. Production of cellulase by <i>Bacillus amyloliquefaciens</i> -ASK11 under high chromium stress. Waste and Biomass Valorization, 10 (1): 53–61. https://doi.org/10.1007/s12649-017-0046-3	2.8
45.	Ali Hussain , Muhammad Anwar Iqbal, Arshad Javid, Abdul Razaq, Sumaira Aslam, Ali Hasan, Muhammad Akmal, Javed Iqbal Qazi, 2019. Application of fruit wastes as cost-effective carbon sources for biological sulphate reduction. Iranian Journal of Science and Technology Transactions, A: Science, 43 (1): 33–41. https://doi.org/10.1007/s40995-017-0436-1	1.4
46.	Saima Batool, Ali Hussain , Muhammad Anwar Iqbal, Arshad Javid, Waqas Ali, Syed Mohsin Bukhari, Muhammad Akmal and Javed Iqbal Qazi, 2019. Implication of highly metal-resistant microalgal-bacterial co-cultures for the treatment of simulated metal-loaded wastewaters. International Microbiology, 22 (1): 41–48. https://doi.org/10.1007/s10123-018-0025-y	2.3
47.	Faiza Jabeen, Ali Hussain , Tahira Younis, Maleeha Manzoor and Khizar Samiullah, 2019. Isolation of thermophilic <i>Anoxybacillus beppuensis</i> JF84 and production of thermostable amylase utilizing agro–dairy wastes. Environmental Progress and Sustainable Energy, 38 (2): 417–423. https://doi.org/10.1002/ep.12991	2.3
48.	Muhammad Imran, Ali Hussain , Zahid Anwar, Muhammad Irshad and Faiza Jabeen, 2019. Beta-glucosidase production optimization from newly isolated <i>Aspergillus tubingensis</i> IMMIS2 using Taguchi statistical design. Iranian Journal of Science and Technology Transactions, A: Science, 43 (3): 701–707. https://doi.org/10.1007/s40995-017-0462-z	1.4
49.	Irfan, Arshad Javid, Ali Hussain , Muhammad Ashraf, Athar Mahmud, Muhammad Altaf, Syed Makhdoom Hussain and Syed Mohsin Bukhari, 2019. Variations in carcass yield and meat sensory quality attributes between turkeys (<i>Meleagris gallopavo</i>) reared in free-range and confinement rearing systems. Indian Journal of Animal Research, 53 (11): 1543–1547. Article No. B-622. https://doi.org/10.18805/ijar.v0iOF.9141	0.5
50.	Muhammad Rashid, Ali Hussain , Muhammad Shoaib, Muhammad Abdul Basit, Hammad Khan and Yong Shin Kim, 2019. An amperometric hydrogen sensor based on Pt nanoparticles supported multi-wall carbon nanotubes. Journal of Electroanalytical Chemistry, 833 : 173–180. https://doi.org/10.1016/j.jelechem.2018.11.038	4.1
Publications in 2020		
51.	Muhammad Muneeb, Muhammad Rashid, Arshad Javid, Syed Mohsin Bukhari, Waqas Ali, Ali Hasan, Muhammad Akmal and Ali Hussain , 2020. Concomitant treatment of tannery and paper mill effluents using extremely metal-tolerant sulphate-reducing bacteria. Environmental Processes, 7 (1): 243–253. https://doi.org/10.1007/s40710-019-00416-4	4.0

52. Adnan Hussain, Syed Mohsin Bukhari, Shahla Andleeb, Khalil Ur Rehman, Iram Maqsood, Arshad Javid, **Ali Hussain**, Waqas Ali, Nimra Khalid, Muhammad Javed Iqbal and Huma Yasin, 2020. Heavy metal levels in vegetables and soil cultivated with industrial wastewater from different sites of Chunian and Jamber, District Kasur. *Journal of Applied Sciences and Environmental Management*, **24**(2): 271–277.
<https://dx.doi.org/10.4314/jasem.v24i2.13> --
53. Waqas Ali, Arshad Javid, **Ali Hussain**, Muhammad Hafeez-ur-Rehman, Anne-Lise Chabber and Farid Hemmatzadeh, 2020. First record of *Euphlyctis kalasgramensis* (Anura: Dicroglossidae) from Punjab, Pakistan. *Mitochondrial DNA Part B*, **5**(2): 1227–1232.
<https://doi.org/10.1080/23802359.2020.1731337> **0.5***
(See Note 3 at End of the Publication List)
54. Muhammad Imran, **Ali Hussain**, Zahid Anwar, Nadia Zeeshan, Amara Yaseen, Muhammad Akmal and Musadiq Idris, 2020. Immobilization of fungal cellulase on calcium alginate and xerogel matrix. *Waste and Biomass Valorization*, **11**(4): 1229–1237.
<https://doi.org/10.1007/s12649-018-0443-2> **2.8**
55. Nafeesa Batool, Javed Iqbal Qazi, Nida Aziz, **Ali Hussain** and Syed Zawwar Hussain Shah, 2020. Bio-methane production potential assays of organic waste by anaerobic digestion and co-digestion. *Pakistan Journal of Zoology*, **52**(3): 971–976.
<https://dx.doi.org/10.17582/journal.pjz/20190322170334> **0.5***
(See Note 2 at End of the Publication List)
56. Muhammad Akmal, Aryan Rahimi-Midani, Muhammad Hafeez-ur-Rehman, **Ali Hussain** and Tae-Jin Choi, 2020. Isolation, characterization, and application of a bacteriophage infecting the fish pathogen *Aeromonas hydrophila*. *Pathogens*, **9**: Article No. 215.
<https://doi.org/10.3390/pathogens9030215> **3.3**
57. Muhammad Idnan, Arshad Javid, Muhammad Nadeem, **Ali Hussain**, Sajid Mansoor, Waqas Ali and Syed Mohsin Bukhari, 2020. Preliminary behavior of Chinkara (*Gazella bennettii*) under captive conditions with future conservation strategies. *RADS Journal of Biological Research & Applied Sciences*, **11**(1): 39–46.
<https://doi.org/10.37962/jbas.v11i1.165> --
58. Saddam Hussain, Syed Mohsin Bukhari, Arshad Javid, **Ali Hussain**, Muhammad Rashid and Waqas Ali, 2020. Molecular identification of genus *Duttaphrynus* from Punjab, Pakistan. *Mitochondrial DNA Part B*, **5**(3): 3236–3238.
<https://doi.org/10.1080/23802359.2020.1810143> **0.5***
(See Note 3 at End of the Publication List)
59. Waqas Ali, Arshad Javid, Saddam Hussain, **Ali Hussain** and Syed Mohsin Bukhari, 2020. Morphological variations, distribution and population estimation of Indian spiny tailed lizard (*Uromastix hardwickii* Gray, 1827) from District Bahawalnagar, Punjab, Pakistan. *Asian Herpetological Research*, **11**(3): 257–262.
<https://doi.org/10.16373/j.cnki.ahr.190047> **1.4**
60. Muhammad Inayat, Farzana Abbas, Saira Razzaq, Muhammad Hafeez-ur-Rehman, Arshad Javid, **Ali Hussain**, Muhammad Akmal and Iqra Anwer, 2020. Effect of vitamin D on the growth, haematological and bio-chemical profile of *Labeo rohita*. *Agricultural Science Digest*, Article No. D-226, **40**(4): 418–423.
<https://dx.doi.org/10.18805/ag.D-226> --
61. Sumaira, Syed Mohsin Bukhari, Maqsood Iram, Arshad Javid, **Ali Hussain**, Waqas Ali, Khalil Ur Rehman, Shahla Andleeb, Irfan Baboo and Nimra Khalid, 2020. Seasonal variation in ecdysis process and parasitic prevalence in Indian Rock Python (*Python molurus*). *Pakistan Journal of Zoology*, **52**(6): 2341–2346.
<https://dx.doi.org/10.17582/journal.pjz/20190417060401> **0.5***
62. Fareeha Saleh, **Ali Hussain**, Tahira Younis, Shahzad Ali, Muhammad Rashid, Ahmad Ali, Ghulam Mustafa, Faiza Jabeen, Ameena A. AL-Surhaneer, Maryam M. Alnoman and Samina Qamer, 2020. Comparative growth potential of thermophilic amylolytic *Bacillus* Sp. on unconventional media food wastes and its industrial application. *Saudi Journal of Biological Sciences*, **27**(12): 3499–3504.
<https://doi.org/10.1016/j.sjbs.2020.09.045> **4.4***
(See Note 4 at End of the Publication List)

Publications in 2021

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|-----|---|--|
| 63. | Natasha Laraib, Ali Hussain , Arshad Javid, Syed Mohsin Bukhari, Waqas Ali, Maleeha Manzoor and Faiza Jabeen, 2021. Mixotrophic cultivation of <i>Scenedesmus dimorphus</i> for enhancing biomass productivity and lipid yield. Iranian Journal of Science and Technology Transactions, A: Science, 45 (2): 397–403.
https://doi.org/10.1007/s40995-020-01055-3 | 1.4 |
| 64. | Irfan Saleem, Zulfiqar Ali and Ali Hussain , 2021. Respiratory health implications among wet-blue leather tannery workers of Kasur. Chiang Mai University Journal of Natural Sciences, 20 (3): Article No. e2021058.
https://doi.org/10.12982/CMUJNS.2021.058 | -- |
| 65. | Irfan Saleem, Zulfiqar Ali, Ali Hussain , Sana Hafeez and Gaittee Joshua, 2021. Dynamics of pulmonary functions based on body mass index categories in wet-blue leather tannery workers. Chiang Mai University Journal of Natural Sciences, 20 (4): Article No. e2021072.
https://doi.org/10.12982/CMUJNS.2021.072 | -- |
| 66. | Sidra Kanwal, Muhammad Hafeez-ur-Rehman, Ali Hussain , Muhammad Nadeem, Farzana Abbas, Muhammad Akram, Muhammad Inayat and Kashif Ali, 2021. Optimization of chitosan for microencapsulation of flaxseed oil through spray drying. Pakistan Journal of Pharmaceutical Sciences, 34 (4): 1569–1575.
https://doi.org/10.36721/PJPS.2021.34.4.SUP.1569-1575.1 | 0.6 |
| 67. | Natasha Laraib, Maleeha Manzoor, Arshad Javid, Faiza Jabeen, Syed Mohsin Bukhari, Waqas Ali and Ali Hussain , 2021. Mixotrophic cultivation of <i>Chlorella vulgaris</i> in sugarcane molasses preceding nitrogen starvation: biomass productivity, lipid content and fatty acid analyses. Environmental Progress and Sustainable Energy, 40 (4): Article No. e13625.
https://doi.org/10.1002/ep.13625 | 2.3 |
| 68. | Ali Raza Ishaq, Maleeha Manzoor, Ali Hussain , Javaria Altaf, Saif ur Rehman, Zeeshan Javed, Iqra Afzal, Ayesha Noor and Fatima Noor, 2021. Prospect of microbial food borne diseases in Pakistan: a review. Brazilian Journal of Biology, 81 (4): 940–953.
https://dx.doi.org/10.1590/1519-6984.232466 | 1.65*
(See Note 5 at
End of the
Publication List) |
| 69. | Shahid Ali, Kunjithapatham Dhileepan, Ali Hussain and Asad Shabbir, 2021. Reproductive biology, abundance and control potential of <i>Paramecops farinosus</i> (Wiedemann) (Coleoptera: Curculionidae): a prospective biological control agent for <i>Calotropis procera</i> (Apocynaceae). Biocontrol Science and Technology, 31 (12): 1365–1376.
https://doi.org/10.1080/09583157.2021.1953441 | 1.2 |
| 70. | Waqas Ali, Arshad Javid, Ali Hussain , Syed Mohsin Bukhari and Saddam Hussain, 2021. Preliminary assessment of the diversity and habitat preferences of herpetofauna in Cholistan desert, Pakistan. Russian Journal of Herpetology, 28 (6): 375–379. | 0.9 |

Publications in 2022

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|-----|---|---|
| 71. | Ghulam Mustafa, Asia Iqbal, Arshad Javid, Maleeha Manzoor, Sumaira Aslam, Ahmad Ali, Sheikh Muhammad Azam, Muhammad Khalid, Muhammad Farooq, Yahya Al Nagggar, Sulaiman Ali Alharbi, Hesham Ali El Enshasy, Roslinda Abd Malek, Samina Qamer and Ali Hussain , 2022. Antibacterial properties of <i>Apis dorsata</i> honey against some pathogenic bacterial species. Saudi Journal of Biological Sciences, 29 (2): 730–734.
https://doi.org/10.1016/j.sjbs.2021.09.059 | 4.4*
(See Note 4 at
End of the
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| 72. | Imania Ghaffar, Arshad Javid, Shahid Mehmood and Ali Hussain , 2022. Uptake of Cu ²⁺ by unicellular microalga <i>Chlorella vulgaris</i> from synthetic wastewaters is attenuated by polystyrene microspheres. Chemosphere, 290 : Article No. 133333.
https://doi.org/10.1016/j.chemosphere.2021.133333 | 8.1*
(See Note 6 at
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https://dx.doi.org/10.17582/journal.pjz/20230802064639 | 0.5*
(See Note 2 at
End of the
Publication List) |
| 140. | Muhammad Talha, Afshan Syed Abbas, Faiza Jabeen, Ali Hussain , Itrat Zahra, Sumaira Aslam, Iram Yousaf, Muhammad Awais, Manel Bin Ali and Amor Hedfi, 2025. Valorization of <i>Musa paradisiaca</i> peel waste for bioplastic production. Waste and Biomass Valorization.
https://doi.org/10.1007/s12649-025-03228-w | 2.8 |
| 141. | Imania Ghaffar, Ali Hasan, Shahid Sherzada and Ali Hussain , 2025. Polystyrene microparticles suppressed Pb ²⁺ uptake potential of <i>Leptolyngbya boryana</i> . Bioremediation Journal.
https://doi.org/10.1080/10889868.2025.2544600 | 1.4 |

***IMPORTANT NOTES FOR SOME ABOVE-LISTED JOURNAL ARTICLES WITH RESPECT TO DELISTING OF THE JOURNALS FROM THE WEB OF SCIENCE**

NOTE 1 (Sr. No. 34): Journal of Asia-Pacific Biodiversity was delisted from the core collection of Web of Science in 2025. However, the above article was published before 2025 and indexed in the Web of Science. The latest impact factor of the journal at the time of it's indexing in the Web of Science in 2024 was 0.6.

NOTE 2 (Sr. Nos. 35, 38, 41, 42, 43, 55, 61, 84, 91, 95, 115, 116, 119, 120, 122, 127, 128, 130 and 131): Pakistan Journal of Zoology was delisted from the core collection of Web of Science in 2025. However, the above articles were published before 2025 and indexed in the Web of Science. The latest impact factor of the journal at the time of it's indexing in the Web of Science in 2024 was 0.5.

NOTE 3 (Sr. Nos. 53 and 58): The journal 'Mitochondrial DNA Part B' was delisted from the core collection of Web of Science in 2025. However, the above article was published before 2025 and indexed in the Web of Science. The latest impact factor of the journal at the time of it's indexing in the Web of Science in 2024 was 0.5.

NOTE 4 (Sr. Nos. 62 and 71): Saudi Journal of Biological Sciences was discontinued by King Saud University in June 2024. However, the above articles were published before 2024 and indexed in the Web of Science. The latest impact factor of the journal before it's discontinuation in 2023 was 4.4.

NOTE 5 (Sr. No. 68): Brazilian Journal of Biology was delisted from the core collection of Web of Science in 2022. However, the above article was published before 2022 and indexed in the Web of Science. The latest impact factor of the journal at the time of it's indexing in the Web of Science in 2021 was 1.65.

Note 6 (Sr. Nos. 72, 75, 87 and 92): The journal 'Chemosphere' was delisted from the core collection of Web of Science in 2025. However, the above articles were published before 2025 and indexed in the Web of Science. The latest impact factor of the journal at the time of it's indexing in the Web of Science in 2024 was 8.1.

NOTE 7 (Sr. Nos. 83 and 110): The journal 'Environmental Science and Pollution Research' was delisted from the core collection of Web of Science in 2024. However, the above article was published before 2024 and indexed in the Web of Science. The latest impact factor of the journal at the time of it's indexing in the Web of Science in 2023 was 5.8.

11.2. Books		
Sr. No.	Book Description	Publisher
1.	<p>Deepanraj Balakrishnan, Prabhakar Sharma and Ali Hussain, 2026. Fuelling the Future: Intelligent Approaches for Harnessing Hydrogen Energy. Elsevier.</p> <p>[https://doi.org/10.1016/B978-0-443-34090-1.00009-9] [ISBN: 978-0-443-34090-1] [ISBN: 978-0-443-34091-8 (eBook)]</p>	Elsevier

11.3. Book Chapters		
Sr. No.	Chapter Description	Publisher
1.	<p>Ali Hussain, Sumaira Aslam, Arshad Javid, Muhammad Rashid, Irshad Hussain and Javed Iqbal Qazi, 2019. Biphasic treatment system for the removal of toxic and hazardous pollutants from industrial wastewaters. In: Ram Naresh Bharagava and Pankaj Chowdhary (eds) Emerging and Eco-Friendly Approaches for Waste Management. Springer, Berlin, Germany. pp. 397–421.</p> <p>[https://doi.org/10.1007/978-981-10-8669-4] [ISBN: 978-981-108668-7] [ISBN: 978-981-10-8669-4 (eBook)]</p>	Springer
2.	<p>Natasha Laraib, Ali Hussain, Arshad Javid, Muhammad Hafeez-ur-Rehman, Syed Mohsin Bukhari, Muhammad Rashid and Waqas Ali, 2020. Recent advancements in microalgal-induced remediation of wastewaters. In: Pankaj Chowdhary, Abhay Raj, Digvijay Verma and Yusuf Akhter (eds) Microorganisms for Sustainable Environment and Health. Elsevier. pp. 205–217.</p> <p>[https://doi.org/10.1016/C2018-0-05025-2] [ISBN: 978-0-12-819001-2] [ISBN: 978-0-12-819004-3 (eBook)]</p>	Elsevier
3.	<p>Tahir Noor, Arshad Javid, Ali Hussain, Syed Mohsin Bukhari, Waqas Ali, Muhammad Akmal and Syed Makhdoom Hussain, 2020. Types, sources and management of urban wastes. In: Pramit Verma, Pardeep Singh, A. Raghubanshi and Rishikesh Singh (eds) Urban Ecology: Emerging Patterns and Social-Ecological Systems. Elsevier. pp. 239–263.</p> <p>[https://doi.org/10.1016/C2018-0-05562-0] [ISBN: 978-0-12-820730-7] [ISBN: 978-0-12-820731-4 (eBook)]</p>	Elsevier
4.	<p>Imania Ghaffar, Arshad Javid, Syed Mohsin Bukhari, Waqas Ali, Syed Ghulam Mohayud Din Hashmi and Ali Hussain, 2023. Nano- and microplastics in the environment: a potential threat to in-situ bioremediation of wastewaters. In: Pardeep Singh, Pramit Verma, Rishikesh Singh, Arif Ahamad and Andre C. S. Batalhao (eds) Waste Management and Resource Recycling in the Developing World. Elsevier. pp. 417–436.</p> <p>[https://doi.org/10.1016/B978-0-323-90463-6.0000-8] [ISBN: 978-0-323-90463-6] [ISBN: 978-0-323-90464-3 (eBook)]</p>	Elsevier
5.	<p>Syed Mohsin Bukhari, Nimra Khalid, Shahbaz Ahmad, Khalil Ur Rehman, Shahla Andleeb, Javeria Asghar, Arshad Javid, Ali Hussain and Waqas Ali, 2023. Microbial fuel cell and wastewater treatment. In: Pardeep Singh, Pramit Verma and Ravindra Pratap Singh (eds) Wastewater Resource Recovery and Biological Methods. Springer. pp. 293–322.</p> <p>[https://doi.org/10.1007/978-3-031-40198-5_14] [ISBN: 978-3-031-40197-8] [ISBN: 978-3-031-40198-5 (eBook)]</p>	Springer
6.	<p>Sidra Mushtaq, Shumaila Sarwar, Uzma Younas, Saira Naseem, Quaisar Ejaz Khan, Ali Hussain and Maleeha Manzoor, 2024. Wastewater treatment in Pakistan using algae and microbes: recent developments. In: G. A. Ravishankar, A. Ranga Rao and Se-Kwon Kim (eds) Algae Mediated Bioremediation: Treatment of Industrial Wastewater Streams and Carbon Dioxide Capture. Wiley. pp. 701–714.</p> <p>[https://doi.org/10.1002/9783527843367.ch34] [ISBN: 9783527352470] [ISBN: 9783527843367 (eBook)]</p>	Wiley
7.	<p>Ali Hasan, Saima Rani and Ali Hussain, 2025. Harnessing engineered probiotics for gastrointestinal diseases therapy. In: Zahid Hussain and Renjun Pei (eds) Cell Membrane Engineering for Advancing Cell-Based and Nanotechnology-Based Therapies. Springer. pp. 275–302.</p> <p>[https://doi.org/10.1007/978-3-031-93425-4_10] [ISBN: 978-3-031-93424-7] [ISBN: 978-3-</p>	Springer

031-93425-4 (eBook)]

8. Shehzad Ahmad, Ali Hasan and Ali Hussain, 2025. Behavior of nanomaterials in bacterial environments: Mechanistic insights. In: Kamil Kuca, Lukas Peter and Neetika Kimta (eds) Medicinal Plants and Their Nanoparticles. Springer. pp. 155–180.
[\[https://doi.org/10.1007/978-3-032-03604-9_7\]](https://doi.org/10.1007/978-3-032-03604-9_7) [ISBN: 978-3-032-03603-2] [ISBN: 978-3-032-03604-9 (eBook)] Springer
9. Deepanraj Balakrishnan, Prabhakar Sharma and **Ali Hussain**, 2026. Introduction: Fueling the future. In: Deepanraj Balakrishnan, Prabhakar Sharma and Ali Hussain (eds) Fuelling the Future: Intelligent Approaches for Harnessing Hydrogen Energy. Elsevier. pp. 1–8.
[\[https://doi.org/10.1016/B978-0-443-34090-1.00009-9\]](https://doi.org/10.1016/B978-0-443-34090-1.00009-9) [ISBN: 978-0-443-34090-1] [ISBN: 978-0-443-34091-8 (eBook)] Elsevier
10. Muhammad Muneeb, Mathew Clarke, **Ali Hussain** and Qurat ul Ain, 2026. Sustainability and social impacts. In: Deepanraj Balakrishnan, Prabhakar Sharma and Ali Hussain (eds) Fuelling the Future: Intelligent Approaches for Harnessing Hydrogen Energy. Elsevier. pp. 287–314.
[\[https://doi.org/10.1016/B978-0-443-34090-1.00013-0\]](https://doi.org/10.1016/B978-0-443-34090-1.00013-0) [ISBN: 978-0-443-34090-1] [ISBN: 978-0-443-34091-8 (eBook)] Elsevier

11.4. Abstracts

1. **Ali Hussain**, Arjumand Shah Bano and Javed Iqbal Qazi, 2011. Corrosion of mild steel simulating long term soil burial field conditions differing in nutritional and biotic components. 31st Pakistan congress of Zoology (International), organized by University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan, held on April 19–21, 2011, Abstract No. CBGP-31, pp. 18.
2. Muhammad Ramzan Mirza, **Ali Hussain** and Javed Iqbal Qazi, 2011. Fecundity of Bachwa (*Clupisoma naziri*) from the river Indus at Attock Khurd. 31st Pakistan congress of Zoology (International), organized by University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan, held on April 19–21, 2011, Abstract No. FEWFM-57, pp. 202.
3. **Ali Hussain** and Javed Iqbal Qazi, 2012. Effect of iron emission particulate inhalation on visceral organs on mice. 32nd Pakistan congress of Zoology (International), organized by GC University, Lahore, Pakistan, held on March 06–08, 2012, Abstract No. CBGP-118, pp. 70.
4. Hafiz Abdullah Shakir, Javed Iqbal Qazi and **Ali Hussain**, 2013. Bioaccumulation of metals in different tissues of three commonly available fish species from river Ravi, Pakistan. 33rd Pakistan congress of Zoology (International), jointly organized by Pakistan Museum of Natural History, Islamabad and PMAS Arid Agriculture University, Rawalpindi, Pakistan, held on April 02–04, 2013, Abstract No. CBGP-51, pp. 30.
5. **Ali Hussain**, Khalid Ali, Hafiz Abdullah Shakir, Javed Iqbal Qazi and Shahid Ali, 2013. Prevalence of *Escherichia coli* in milk and different milk products sold under market conditions at Lahore, Pakistan. 33rd Pakistan congress of Zoology (International), jointly organized by Pakistan Museum of Natural History, Islamabad and PMAS Arid Agriculture University, Rawalpindi, Pakistan, held on April 02–04, 2013, Abstract No. CBGP-152, pp. 93.
6. **Ali Hussain**, Javed Iqbal Qazi, Shahid Ali and Hafiz Abdullah Shakir, 2013. Occupational exposure to metallic dust and its impact on the hemogram and serum biochemistry of workers of cutlery industries in Wazirabad, Pakistan. 33rd Pakistan congress of Zoology (International), jointly organized by Pakistan Museum of Natural History, Islamabad and PMAS Arid Agriculture University, Rawalpindi, Pakistan, held on April 02–04, 2013, Abstract No. CBGP-222, pp. 138.
7. **Ali Hussain**, Shahid Ali, Hafiz Abdullah Shakir, Javed Iqbal Qazi and Sumaira Aslam, 2013. Occupational exposure to cleaning solvents and their health hazards: A preliminary survey of screen printing units in Lahore, Pakistan. 33rd Pakistan congress of Zoology (International), jointly organized by Pakistan Museum of Natural History, Islamabad and PMAS Arid Agriculture University, Rawalpindi, Pakistan, held on April 02–04, 2013, Abstract No. CBGP-223, pp. 138.
8. **Ali Hussain**, Javed Iqbal Qazi, Shahid Ali and Hafiz Abdullah Shakir, 2013. Occupational exposure to metallic dust among workers of cutlery industries in Wazirabad, Pakistan: A preliminary survey. 33rd Pakistan congress of Zoology (International), jointly organized by Pakistan Museum of Natural History, Islamabad and PMAS Arid Agriculture University, Rawalpindi, Pakistan, held on April 02–04, 2013, Abstract No. CBGP-226, pp. 140.
9. Hafiz Abdullah Shakir, Javed Iqbal Qazi, **Ali Hussain** and Sumaira Aslam, 2013. Hepatic responses of three carp fish species against metals' pollution in river Ravi, Pakistan. 33rd Pakistan congress of Zoology (International), jointly organized by Pakistan Museum of Natural History, Islamabad and PMAS Arid Agriculture University, Rawalpindi, Pakistan, held on April 02–04, 2013, Abstract No. CBGP-228, pp. 142.
10. Sumaira Aslam, Javed Iqbal Qazi, Hafiz Abdullah Shakir and **Ali Hussain**, 2013. Assessment of spatial distribution of chromium in tannery effluent contaminated soil and its bioaccumulation in associated plants. 33rd Pakistan congress of Zoology (International), jointly organized by Pakistan Museum of Natural History, Islamabad and PMAS Arid Agriculture University, Rawalpindi, Pakistan, held on April 02–04, 2013, Abstract No. FEWFM-11, pp. 278.
11. Hafiz Abdullah Shakir, Javed Iqbal Qazi and **Ali Hussain**, 2013. Condition factor of three carp species cultivated under same conditions. 33rd Pakistan congress of Zoology (International), jointly organized by Pakistan Museum of Natural History, Islamabad and PMAS Arid Agriculture University, Rawalpindi, Pakistan, held on April 02–04, 2013, Abstract No. FEWFM-22, pp. 285.
12. Shahid Ali, **Ali Hussain**, Javed Iqbal Qazi and Hafiz Abdullah Shakir, 2013. Ichthyofaunal survey of the river Ravi

stretch flowing along the Jhok Reserve Forest, Pakistan. 33rd Pakistan congress of Zoology (International), jointly organized by Pakistan Museum of Natural History, Islamabad and PMAS Arid Agriculture University, Rawalpindi, Pakistan, held on April 02–04, 2013, Abstract No. FEWFM-23, pp. 286.

13. **Ali Hussain** and Javed Iqbal Qazi, 2014. Assessment of metals' induced functional stress in sulphate-reducing thermophiles. 34th Pakistan congress of Zoology (International), organized by Bahauddin Zakariya University, Multan, Pakistan, held on February 25–27, 2014, Abstract No. CBGP-92, pp. 60.
14. **Ali Hussain** and Javed Iqbal Qazi, 2015. Biological sulphate-reduction using fruit wastes as carbon sources. 35th Pakistan congress of Zoology (International), organized by Centre of Excellence in Marine Biology, University of Karachi, Karachi, Pakistan, held on March 01–04, 2015, Abstract No. CBGP-61, pp. 42.
15. Ali Hasan, **Ali Hussain**, Muhammad Asim, Shahid Ali, Waseem Ahmad Khan, Muhammad Akmal, Muhammad Qayyum and Javed Iqbal Qazi, 2015. Fecundity of the Asian stinging catfish *Heteropneustes fossilis* (Bloch) from marshes of the river Chenab near Head Marala, Pakistan. 35th Pakistan congress of Zoology (International), organized by Centre of Excellence in Marine Biology, University of Karachi, Karachi, Pakistan, held on March 01–04, 2015, Abstract No. FEWFM-42, pp. 182.
16. Shahid Ali, **Ali Hussain**, Waseem Ahmad Khan, Ali Hasan, Muhammad Idnan, Muhammad Akmal and Muhammad Qayyum, 2015. Relative diversity and threats to commercially important fishes of the river Ravi, Pakistan. 35th Pakistan congress of Zoology (International), organized by Centre of Excellence in Marine Biology, University of Karachi, Karachi, Pakistan, held on March 01–04, 2015, Abstract No. FEWFM-46, pp. 184.
17. **Ali Hussain**, Arshad Javid, Muhammad Altaf, Ali Hassan and Javed Iqbal Qazi, 2016. Bioremediation of metals- and sulphate-loaded wastewaters using agro-industrial wastes as cost-effective growth substrates. 36th Pakistan congress of Zoology (International), organized by Department of Zoology, University of Sindh, Jamshoro, Pakistan, held on February 16–18, 2016, Abstract No. CBGP-7, pp. 12.
18. Irfan, Arshad Javid, Muhammad Ashraf, Athar Mahmud, **Ali Hussain**, Muhammad Altaf, Muhammad Idnan and Syed Makhdoom Hussain, 2016. Studies on semen morphology and effects of artificial insemination on hatchability in turkeys (*Meleagris gallopavo*). 36th Pakistan congress of Zoology (International), organized by Department of Zoology, University of Sindh, Jamshoro, Pakistan, held on February 16–18, 2016, Abstract No. CBGP-95, pp. 67.
19. Muhammad Waris, **Ali Hussain**, Arshad Javid, Ali Hassan, Muhammad Akmal and Javed Iqbal Qazi, 2016. Occupational exposure to chromium among tannery workers in District Kasur, Pakistan. 36th Pakistan congress of Zoology (International), organized by Department of Zoology, University of Sindh, Jamshoro, Pakistan, held on February 16–18, 2016, Abstract No. CBGP-119, pp. 83.
20. Muhammad Waqas Zeeshan, **Ali Hussain**, Arshad Javid, Ali Hassan, Allah Ditta, Muhammad Shahid and Muhammad Akmal, 2016. Relative diversity of snake-headed fishes from anthropogenically impacted stretch of the Ravi, Pakistan. 36th Pakistan congress of Zoology (International), organized by Department of Zoology, University of Sindh, Jamshoro, Pakistan, held on February 16–18, 2016, Abstract No. FEWFM-15, pp. 181.
21. Muhammad Hafeez-ur-Rehman, Farzana Abbas, Muhammad Ashraf, Noor Khan, Arshad Javid, **Ali Hussain**, Muhammad Akmal and Ghulam Abbas, 2016. Development of value added products, quality determination, nutritional and organoleptic assessment from *Channa marulius* flesh. 36th Pakistan congress of Zoology (International), organized by Department of Zoology, University of Sindh, Jamshoro, Pakistan, held on February 16–18, 2016, Abstract No. FEWFM-32, pp. 191.
22. Maimoona Hassan Hashmi, Muhammad Hafeez-ur-Rehman, Farzana Abbas, Arshad Javid, Ghulam Abbas, **Ali Hussain**, Muhammad Akmal, Diego Carrillo Freire and Yashfeen Mazhar, 2016. Chemical quality assessment of mince based value added products from Morakhi (*Cirrhinus mrigala*) during frozen storage. 36th Pakistan congress of Zoology (International), organized by Department of Zoology, University of Sindh, Jamshoro, Pakistan, held on February 16–18, 2016, Abstract No. FEWFM-33, pp. 192.
23. Arshad Javid, Muhammad Altaf, Muhammad Ashraf, **Ali Hussain**, Irfan, Syed Makhdoom Hussain and Muhammad Idnan, 2016. Habitat preferences of wild mammalian species along river Chenab, Pakistan. 36th Pakistan congress of Zoology (International), organized by Department of Zoology, University of Sindh, Jamshoro,

Pakistan, held on February 16–18, 2016, Abstract No. FEWFM-63, pp. 211.

24. Arshad Javid, Irfan, Muhammad Ashraf, **Ali Hussain**, Athar Mahmud, Muhammad Altaf, Muhammad Idnan and Syed Makhdoom Hussain, 2016. Comparative studies on growth performance, carcass yield and sensory quality attributes of meat between turkeys (*Meleagris gallopavo*) reared in free-range and confinement rearing systems. 36th Pakistan congress of Zoology (International), organized by Department of Zoology, University of Sindh, Jamshoro, Pakistan, held on February 16–18, 2016, Abstract No. FEWFM-64, pp. 211.
25. Muhammad Altaf, Arshad Javid, Muhammad Ashraf, **Ali Hussain**, Irfan and Syed Makhdoom Hussain, 2016. Cultural and medicinal significance of avian fauna along the river Chenab, Punjab, Pakistan. 36th Pakistan congress of Zoology (International), organized by Department of Zoology, University of Sindh, Jamshoro, Pakistan, held on February 16–18, 2016, Abstract No. FEWFM-78, pp. 220.
26. Muhammad Inayat, Muhammad Ashraf, Muhammad Hafeez-ur-Rehman, **Ali Hussain**, Arshad Javid, Sadaf Aman and Anees Mazhar, 2017. Development of biofloc in pond culture system. 6th International Fisheries Symposium and Expo-2017 on “Innovative and Sustainable Aquaculture for Blue Revolution”, jointly organized by Department of Fisheries and Aquaculture, University of Veterinary and Animal Sciences, Lahore, Pakistan (Ravi Campus) and Pakistan Fisheries Society, held on February 08–09, 2017, Abstract No. IFSE-2017-A-16, pp. 40.
27. Muhammad Hafeez-ur-Rehman, Farzana Abbas, Muhammad Ashraf, Arshad Javid, **Ali Hussain**, Ghulam Abbas, Khalid Javed Iqbal and Muhammad Akmal, 2017. Effect of formulated diet on the growth, survival and rate of cannibalism in Giant Murrel, *Channa marulius* reared in earthen ponds. 6th International Fisheries Symposium and Expo-2017 on “Innovative and Sustainable Aquaculture for Blue Revolution”, jointly organized by Department of Fisheries and Aquaculture, University of Veterinary and Animal Sciences, Lahore, Pakistan (Ravi Campus) and Pakistan Fisheries Society, held on February 08–09, 2017, Abstract No. IFSE-2017-B-08, pp. 52.
28. Noreen Kanwal, Muhammad Akmal, **Ali Hussain**, Arshad Javid, Muhammad Hafeez-ur-Rehman, Abdul Razaq and Waqas Ali, 2017. Isolation and identification of fungal pathogens from *Clarias batrachus* (Hybrid) cultured under semi-intensive culture system. 6th International Fisheries Symposium and Expo-2017 on “Innovative and Sustainable Aquaculture for Blue Revolution”, jointly organized by Department of Fisheries and Aquaculture, University of Veterinary and Animal Sciences, Lahore, Pakistan (Ravi Campus) and Pakistan Fisheries Society, held on February 08–09, 2017, Abstract No. IFSE-2017-C-17, pp. 94.
29. Muhammad Tariq Nisar, Muhammad Hafeez-ur-Rehman, Farzana Abbas, Arshad Javid, **Ali Hussain**, Muhammad Akmal, Ghulam Abbas, Khalid Javed Iqbal and Syedah Andleeb, 2017. Induced spawning of *Labeo rohita*, *Cirrhinus mrigala* and development of their hybrid by using various doses of ovaprim. 6th International Fisheries Symposium and Expo-2017 on “Innovative and Sustainable Aquaculture for Blue Revolution”, jointly organized by Department of Fisheries and Aquaculture, University of Veterinary and Animal Sciences, Lahore, Pakistan (Ravi Campus) and Pakistan Fisheries Society, held on February 08–09, 2017, Abstract No. IFSE-2017-D-20, pp. 112.
30. Sidra Atta, **Ali Hussain**, Khizra Ijaz, Arshad Javid, Muhammad Hafeez-ur-Rehman, Muhammad Akmal, Waqas Ali, Ali Hasan, Khalid Ali and Shahid Ali, 2017. Bioaccumulation of recalcitrant pollutants in different tissues of *Wallago attu* sampled from anthropogenically impacted segment of the Ravi, Pakistan. 6th International Fisheries Symposium and Expo-2017 on “Innovative and Sustainable Aquaculture for Blue Revolution”, jointly organized by Department of Fisheries and Aquaculture, University of Veterinary and Animal Sciences, Lahore, Pakistan (Ravi Campus) and Pakistan Fisheries Society, held on February 08–09, 2017, Abstract No. IFSE-2017-E-22, pp. 133.
31. Muhammad Imran, Muhammad Hafeez-ur-Rehman, Farzana Abbas, Arshad Javid, **Ali Hussain**, Muhammad Akmal and Muhammad Akram, 2017. Ichthyofaunal abundance, physiochemical and health status of fish at Balloki Headworks on River Ravi and Sulaimanki Headworks on River Sutlej. 6th International Fisheries Symposium and Expo-2017 on “Innovative and Sustainable Aquaculture for Blue Revolution”, jointly organized by Department of Fisheries and Aquaculture, University of Veterinary and Animal Sciences, Lahore, Pakistan (Ravi Campus) and Pakistan Fisheries Society, held on February 08–09, 2017, Abstract No. IFSE-2017-F-09 (P), pp. 141.
32. Muhammad Waqas Zeeshan, Muhammad Akmal, **Ali Hussain** and Muhammad Hafeez-ur-Rehman, 2017. Relative diversity and richness of Ichthyofauna of the Ravi, Pakistan. 6th International Fisheries Symposium and Expo-2017 on “Innovative and Sustainable Aquaculture for Blue Revolution”, jointly organized by Department of Fisheries and Aquaculture, University of Veterinary and Animal Sciences, Lahore, Pakistan (Ravi Campus) and Pakistan Fisheries Society, held on February 08–09, 2017, Abstract No. IFSE-2017-F-20, pp. 149.

33. Ali Hasan, **Ali Hussain**, Arshad Javid, Sumaira Aslam, Muhammad Akmal, Khalid Ali and Javed Iqbal Qazi, 2017. Construction of cellulolytic and sulphate-reducing bacterial consortium for enhancing efficiency of cellulose-linked bioremedial processes. 37th Pakistan Congress of Zoology (International), organized by Department of Zoology, Government College University, Faisalabad, Pakistan, held on February 28 – March 02, Abstract No. CBGP-21, pp. 20.
34. Muhammad Muneeb, **Ali Hussain**, Arshad Javid, Sumaira Aslam, Muhammad Akmal, Ali Hasan, Khalid Ali and Javed Iqbal Qazi, 2017. Concomitant treatment of tannery and paper mill effluents by highly metal-resistant dissimilatory sulphate-reducing bacteria. 37th Pakistan Congress of Zoology (International), organized by Department of Zoology, Government College University, Faisalabad, Pakistan, held on February 28 – March, 02, Abstract No. CBGP-24, pp. 22.
35. **Ali Hussain**, Arshad Javid, Sumaira Aslam and Javed Iqbal Qazi, 2017. Application of fruit wastes as cost-effective carbon sources for biological sulphate reduction. 37th Pakistan Congress of Zoology (International), organized by Department of Zoology, Government College University, Faisalabad, Pakistan, held on February 28 – March 02, Abstract No. CBGP-25, pp. 22.
36. Sumaira Aslam, **Ali Hussain** and Javed Iqbal Qazi, 2017. Magnified yield of cellulase by *Bacillus amyloliquefaciens*-ASK11 under high chromium stress. 37th Pakistan Congress of Zoology (International), organized by Department of Zoology, Government College University, Faisalabad, Pakistan, held on February 28 – March 02, Abstract No. CBGP-27, pp. 24.
37. Adeel Ahmad, **Ali Hussain**, Muhammad Imran, Arshad Javid, Sumaira Aslam, Muhammad Akmal, Ali Hasan and Khalid Ali, 2017. Production and purification of cellulase from *Aspergillus niger* using rice polish as growth substrate. 37th Pakistan Congress of Zoology (International), organized by Department of Zoology, Government College University, Faisalabad, Pakistan, held on February 28 – March 02, Abstract No. CBGP-28, pp. 24.
38. Noreen Kanwal, Muhammad Akmal, **Ali Hussain**, Arshad Javid, Muhammad Hafeez-ur-Rahman, Waqas Ali, Ali Hasan, Khalid Ali and Shahid Ali, 2017. Isolation and identification of fungal pathogens from *Clarias batrachus* (Hybrid) cultured under semi-intensive culture system. 37th Pakistan Congress of Zoology (International), organized by Department of Zoology, Government College University, Faisalabad, Pakistan, held on February 28 – March 02, Abstract No. CBGP-112, pp. 76.
39. Muhammad Anwar Iqbal, Habib Rehman, **Ali Hussain**, Arshad Javid, Ijaz Ahmad, Kamran Ashraf, Muhammad Irshad Arshad and Omaira Khan, 2017. Supplementation of mannon-oligosaccharides in Japanese quail: growth performance, viscera development, mineral absorption and caecal microbiota. 37th Pakistan Congress of Zoology (International), organized by Department of Zoology, Government College University, Faisalabad, Pakistan, held on February 28 – March 02, Abstract No. CBGP-152, pp. 100.
40. Sara Amin, Arshad Javid, Waqas Ali, **Ali Hussain**, Syed Makhdoom Hussain and Muhammad Hafeez-ur-Rahman, 2017. Influence of female body weight on external egg quality parameters in turkeys *Meleagris gallopavo*. 37th Pakistan Congress of Zoology (International), organized by Department of Zoology, Government College University, Faisalabad, Pakistan, held on February 28 – March 02, Abstract No. CBGP-153, pp. 101.
41. Shabana Tufail, Arshad Javid, Waqas Ali, **Ali Hussain**, Syed Makhdoom Hussain and Muhammad Hafeez-ur-Rahman, 2017. The relationship of parent body weight with external egg quality parameters in ring necked pheasants (*Phasianus colchicus*) in captivity. 37th Pakistan Congress of Zoology (International), organized by Department of Zoology, Government College University, Faisalabad, Pakistan, held on February 28 – March 02, Abstract No. CBGP-154, pp. 101.
42. Tasnim Sadaf, Arshad Javid, Ujala Kiran, Waqas Ali, **Ali Hussain**, Syed Makhdoom Hussain and Muhammad Hafeez-ur-Rahman, 2017. Variations in blood biochemical profile of some captive avian species. 37th Pakistan Congress of Zoology (International), organized by Department of Zoology, Government College University, Faisalabad, Pakistan, held on February 28 – March 02, Abstract No. CBGP-158, pp. 104.
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