

Curriculum Vitae of Dr. Ali Hasan

(Assistant Professor BPS-19, University of Agriculture Faisalabad, Constituent College

Toba Tek Singh)

1. PERSONAL PROFILE

Father's Name	Basharat Hussain
Date of Birth	20-07-1990
Gender	Male
Nationality	Pakistan
Religion	Islam
CNIC No.	34104-7274713-1
Marital Status	Married
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2. ACADEMIC RECORD

Degree	Discipline/Area of Study	Details	Institute/Board/University
Ph. D	Zoology (Microbial Biotechnology) “Valorization of fruit peel, organic acid and probiotics to improve efficiency of <i>Apis mellifera</i> ”	2017-2022 (1 st Division)	Institute of Zoology University of the Punjab, Lahore, Pakistan
M. Phil	Zoology (Environmental Microbiology) “Construction of cellulolytic and sulfate reducing bacterial consortium for enhancing efficiency of cellulose-linked bioremedial processes”	2014-2016 (1 st Division)	Faculty of Fisheries and Wildlife University of Veterinary and Animal Sciences, Lahore, Pakistan

M. Sc	Zoology (Microbiology)	2011-2013 (1 st Division)	Department of Zoology University of the Punjab, Lahore, Pakistan
B. Sc	Botany, Zoology, Chemistry	2009-2011 (1 st Division)	Government Zamindar Post Graduate College Bhimber Road, Gujrat University of Gujrat, Gujrat, Pakistan
F. Sc	Pre-medical	2006-2008 (2 nd Division)	FBISE Islamabad F.G inter College Jhelum Cant, Jhelum, Pakistan
Matriculation	Science	2004-2006 (1 st Division)	BISE Gujranwala. Govt Public High School, Wazirabad , Pakistan

3. ACADEMICS

3.1 COURSES STUDIED

Basic Courses: Biochemistry, Cell and Molecular Biology, Genetics and Biostatistics, Physiology, Developmental Biology, Biodiversity and Wildlife, Evolution and Systematics, Paleontology and Zoogeography, Environmental Biology, Wildlife of Pakistan.

Specialized Courses: General Microbiology, Applied Microbiology, Microbial Biotechnology, Molecular Biology.

3.2 TEACHING HISTORY

- Visiting lecturer of Zoology (Animal diversity) at School of Biochemistry and Biotechnology PU Lahore (2-05-22 to 30-09-22).
- Research scholar at Honeybees research garden, Institute of Zoology, University of the Punjab, Lahore (26-05-22 to 25-08-2024).
- Visiting lecturer of Zoology (Animal diversity) at School of Biochemistry and Biotechnology PU Lahore (February 2024 to August 2024).
- Assistant Professor (BPS-19), Department of Zoology, Wildlife and Fisheries, University of Agriculture Faisalabad, Sub campus Toba Tek Singh (26-08-24 to date).

3.3 PAPER SETTER/HEAD EXAMINER

Appointed as a Paper setter/Head examiner by University of the Punjab to set paper of Bacteriology (theory) Examination of BS (8th semester) Zoology

3.4 PRACTICAL (LAB) EXAMINER (Other Universities)

- Appointed as an external /internal examiner by University of the Punjab to conduct to practical/Viva Voce Examination of B.sc zoology at Crescent Science College Gujranwala in 2015.

- Appointed as an external /internal examiner by University of the Punjab to conduct to practical/Viva Voce Examination of B.sc zoology at Govt Islamia postgraduate college Gujranwala, in 2016.
- Appointed as an external /internal examiner by University of the Punjab to conduct to practical/Viva Voce Examination of B.sc part-1 zoology at Govt postgraduate college Okara, in 2016.
- Appointed as an external Practical examiner by Federal Board Of Intermediate & Secondary Education Islamabad to conduct to practical/Viva Voce Examination of HSSC (Biology) at F.G inter college cant Jhelum, in 2017.
- Appointed as an external /internal examiner by University of the Punjab to conduct to practical/Viva Voce Examination of B.sc part-1zoology at Superior science college Gujranwala, in 2017.
- Appointed as an external /internal examiner by University of the Punjab to conduct to practical/Viva Voce Examination of B.sc part-1 Zoology at Govt postgraduate college Pattoki, in 2018.
- Appointed as an external /internal examiner by University of the Punjab to conduct to practical/Viva Voce Examination of B.sc part-2 zoology at Govt postgraduate college Pattoki, in 2018.
- Appointed as an external /internal examiner by University of the Punjab to conduct to practical/Viva Voce Examination of B.sc part-1zoology at Punjab College for women Gujranwala, in 2019.
- Appointed as an external examiner by University of the Punjab to conduct to practical/Viva Voce Examination of B.S 8th semester zoology (Bacteriology) at Govt post graduate college satellite town Gujranwala, in 2019.
- Appointed as an external /internal examiner by University of the Punjab to conduct to practical/Viva Voce Examination of ADP-BA/ B.Sc part-2 zoology at Govt postgraduate College Sheikhpurah, in 2023.
- Appointed as an external /internal examiner by University of the Punjab to conduct to practical/Viva Voce Examination of ADP-BA/ B.Sc part-1 zoology at Govt graduate college Chunian, in 2023.
- Appointed as an external /internal examiner by University of the Punjab to conduct to practical/Viva Voce Examination of BS zoology (Applied Microbiology) at Govt Apwa college Lahore, in June 24, 2024.
- Appointed as an external /internal examiner by University of the Punjab to conduct to practical/Viva Voce Examination of BS zoology (Applied Microbiology) at excellence college Gujranwala, in June 25, 2024.
- Appointed as an external /internal examiner by University of the Punjab to conduct to practical/Viva Voce Examination of BS zoology (Bioremediation) at Govt graduate college Shakargharrh, in June 26, 2024.

3.5 COURSES TAUGHT

3.5.1 UNDERGRADUATE COURSES TAUGHT

Course Title	Credit Hours	Course Code	Class
Animal cell Biology	4(3-1)	Zool-501	BS Zoology
Economic Zoology	3(2-1)	Zool-506	BS Zoology
Limnology	3(2-1)	Zool-605	BS Zoology
Basic Psychology	3(3-0)	HE-307	BS English
Fish breeding and health	3(2-1)	Zool-612	BS Zoology
Technical report	3(0-3)	Zool-621	BS Zoology
Economic Zoology	3(2-1)	Zool-604	BS Zoology
Comparative animal anatomy and physiology	3(2-1)	Zool-504	BS Zoology
Developmental Biology	4(3-1)	Zool-406	BS Zoology
Evolution and principle of systematics	3(3-0)	Zool-408	BS Zoology
Conservative Biology	4(3-1)	Zool-408	BS Zoology
Fisheries	4(3-1)	Zool-503	BS Zoology
Animal Ecology	3(2-1)	Zool-502	BS Zoology
Animal Diversity-1	4(3-1)	Zool-301	BS Zoology
Animal Diversity-2	4(3-1)	Zool-302	BS Zoology
Fish Ecology	3(2-1)	Zool-602	BS Zoology
Introduction to arts and humanities	2(2-0)	FA-310	BS Computer science
Zoogeography and paleontology	3(2-1)	Zool-603	BS Zoology

3.5.2 POSTGRADUATE COURSES TAUGHT

Course Title	Credit Hours	Course Code	Class
Molecular Ecology	3 (2-1)	Zool-709	M. Phil Zoology
Fisheries Management	3 (2-1)	Zool-703	M. Phil Zoology
Wildlife Behavior	3 (2-1)	Zool-711	M. Phil Zoology
Fish Processing	3 (2-1)	Zool-712	M. Phil Zoology

3.6 ADDITIONAL ASSIGNMENTS AT ACADMIC INSTITUTE

- Skilled person at Honey bee research garden, Institute of Zoology, University of the Punjab, Lahore (20-11-21 to 26-05-22).
- Assistant superintendent at Boys hostel No. 17, University of the Punjab, Lahore (7-11-22 to 25-08-2024).

- Superintendent at Old Boys hostel, University of Agriculture Faisalabad, Constituent College Toba Tek Sing (25-10-24 to date).
- In-charge Library, University of Agriculture Faisalabad, Constituent College Toba Tek Sing (29-08-24 to 25-10-24).
- In-charge security, University of Agriculture Faisalabad, Constituent College Toba Tek Sing (22-10-24 to 6-03-25).
- Focal person monitoring and evaluation of Research trials, University of Agriculture Faisalabad, Constituent College Toba Tek Sing (17-07-25 to date).
- Member, student advisory committee (Discipline and conduct), University of Agriculture Faisalabad, Constituent College Toba Tek Sing (06-08-25 to date).
- Convener, Synopsis scrutiny committee, Department of Zoology, wildlife and fisheries, University of Agriculture Faisalabad, Constituent College Toba Tek Sing. (17-09-25 to date)
- Advisor of undergraduate B.S Zoology 1st Semester, University of Agriculture Faisalabad, Constituent College Toba Tek Sing (15-08-25 to date).
- Advisor of undergraduate B.S Zoology 5th Semester, University of Agriculture Faisalabad, Constituent College Toba Tek Sing (15-08-25 to date).
- Advisor of postgraduate classes (M.Phil. Zoology 3rd semester), University of Agriculture Faisalabad, Constituent College Toba Tek Sing (15-08-25 to date).

4. RESEARCH

4.1 RESEARCH/REVIEW ARTICLE PUBLISHED (CUMULATIVE I.F 39.8)

- 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. <https://doi.org/10.1007/s13205-016-0437-3> (Published). **IF 2.9**
- Ali Hussain, Muhammad Anwar Iqbal, Arshad Javid, Abdul Razaq, Sumaira Aslam, **Ali Hasan**, Muhammad Akmal, Javed Iqbal Qazi, 2017. 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> (Published). **IF**
- 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> (Published). **IF 4.00**
- **Ali Hasan**, Javed Iqbal Qazi, Nasreen Muzaffer, Shamsa Jabeen and Ali Hussain. 2022. Effect of organic acids and probiotics on growth of *Apis mellifera* workers. Pakistan Journal of Zoology. <https://dx.doi.org/10.17582/journal.pjz/20210803100802> (Published). **IF 0**

- 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. **(Published). IF 0**
- Qurat -ul- Ain, Arshad Javid, Shahid Ali, **Ali Hasan**, Natarajan Senthilkumar, Jambulingam Ranjitha, **Ali Hussain**. 2022. Coupling wastewater valorization with sustainable biofuel production; comparison of lab- and pilot-scale biomass yields of *Chlorella sorokiniana* grown in wastewater under photoautotrophic and mixotrophic conditions. **Chemosphere**. <https://doi.org/10.1016/j.chemosphere.2022.134703> **(Published). IF 0**
- **Ali Hasan**, Javed Iqbal Qazi, Fouzia Tabssum, Ali Hussain. 2022. Feeding probiotics and organic acids to honeybees enhances acinal surface area of their hypopharyngeal glands. *Research in veterinary science*. <https://doi.org/10.1016/j.rvsc.2022.06.001> **(Published). IF 1.8**
- **Ali Hasan**, Javed Iqbal Qazi, Fouzia Tabssum, Ali Hussain. 2023. Development, gut health, and longevity of European bee on the provision of biosugar syrup. *Biocatalysis and agricultural biotechnology* <https://doi.org/10.1016/j.bcab.2022.102532> **(Published). IF 3.8**
- **Ali Hasan**, Javed Iqbal Qazi, Fouzia Tabssum, Ali Hussain. 2023. Increased bee venom production by european bee on provision of probiotics and organic acids. *Biocatalysis and agricultural biotechnology* <https://doi.org/10.1016/j.bcab.2023.102616> **(Published). IF 3.8**
- Imania Ghaffar; Ali Hussain; **Ali Hasan**, Balakrishnan Deepanraj. 2023. Microalgal-induced remediation of wastewaters loaded with organic pollutants: an overview. *Chemosphere*. <https://doi.org/10.1016/j.chemosphere.2023.137921> **(Published). IF 0**
- Qurat-ul-Ain, Ali Hussain, Shahid Sherzada, Mathew Clarke, Tasnim Sadaf, **Ali Hasan**, Arshad Javid and Balakrishnan Deepanraj. 2023. Production of ethanol from pretreated biomass of *Chlorella sorokiniana* raised at lab- and pilot-scales. *Biomass Conversion and Biorefinery*.<https://doi.org/10.1007/s13399-023-04233-6> **(Published). IF 4.1**
- **Ali Hasan**, Javed Iqbal Qazi, Fouzia Tabssum, Ali Hussain. 2023. Midgut health of *Apis mellifera* workers on oral administration of *Lactobacillus rhamnosus* and organic acids. *Journal of Apicultural Research*. <https://doi.org/10.1080/00218839.2023.2263718> **(published). IF 1.8**
- Mwansa Kaoma, Ali Hussain, **Ali Hasan**, Shahid Sherzada, Tahir Noor, Shehzad Ahmad. 2023. Biosorptive removal of selected metal ions from simulated wastewater using highly metal-resistant bacteria. *Water reuse*. 10.2166/wrd.2023.059 **(Published). IF 3.3**
- **Ali Hasan**, Javed Iqbal Qazi, Fouzia Tabssum, Ali Hussain. 2023. Effect of organic acids and probiotics on intestinal health of *Apis mellifera*. *Brazilian journal of Microbiology*. <https://doi.org/10.1007/s42770-023-01121-z> **(Published). IF 1.9**
- Munir Ahmad, Muhammad Khalil Ahmad Khan, Naveed Ahmad, Munazza Parveen, Khurram Shahzad, **Ali Hasan**. 2024. Histotoxicity Induced by Copper Oxide Nanoparticles (CuO-NPs) On Developing Mice (*Mus musculus*). *Food and chemical toxicology*. <https://doi.org/10.1016/j.fct.2023.114369> **(Published). IF 3.5**

- Shamsa Jabeen, Javed Iqbal Qazi, **Ali Hasan**. 2024. Effects of some locally isolated lactobacillus species on general growth, muscular mass and bone development in mice. <https://doi.org/10.1016/j.fbio.2024.103593> (**Published**). **IF 5.9**
- Muhammad Ahsan Raza, **Ali Hasan**, Syeda Alveena Hashmi. 2024. Biodiversity of Earthworms with Special Referenceto Tehsil Wazirabad, District Gujranwala, Punjab, Pakistan. Markhor. <https://doi.org/10.54393/mjz.v5i01.85> (**Published**) **IF 0**
- Andleeb Aslam, Javed iqbal qazi, **Ali Hasan**, Muhammad Ahsan Raza. 2024. Detection of coliform bacteria in raw milk samples collected from industrial cities of Pakistan. Futuristic Biotechnology. <https://doi.org/10.54393/fbt.v4i01.90> (**Published**). **IF 0**
- Muhammad Ahsan Raza, Syeda Alveena Hashmi, **Ali Hasan**, Husna Ahmad. (2024). Toxicity Evaluation and Tissue Damaging Effects of Lead in *Labeo Rohita*: Lead Toxicity and Tissue Damage in *Labeo Rohita*. Futuristic Biotechnology, 4(01). <https://doi.org/10.54393/fbt.v4i01.106>. (**Published**). **IF 0**
- Shamsa Jabeen, **Ali Hasan**, Muhammad Rizwan, Hina Javed, Muhammad Ahsan Raza, Shehzad Ahmad, Ali Hussain. 2024. Determining Acid-Bile Optimization and Correlation between Optical Density and the Colony Forming Units of *Lactobacilli* Species. Futuristic Biotechnology.4(1).<https://doi.org/10.54393/fbt.v4i01.101> (**Published**). **IF 0**
- Imania Ghaffar, Sanaullah Sattar, Muhammad Muneeb, **Ali Hasan**, Balakrishnan Deepanraj. 2024. Eco-friendly catalysts revolutionizing energy and environmental applications: an overview. Topics in catalysis. (**published**). **IF 3.0**
- Muhammad Jamil, Shehzad Ali, Ali Hussain, Yassar Abbas , Muhammad Ahsan Raza , Andleeb Aslam and **Ali Hasan**. 2024. Development and Validation of Loop-Mediated Isothermal Amplification (Lamp) Field Assay for the Detection of *Brucella abortus*. Futuristic Biotechnology. (**Published**). **IF 0**
- Shamsa Jabeen, Amina Mushtaq, Sanaullah Sattar, Muhammad Muneeb, Sibgha Farooq, Arshia Mukhtar, **Ali Hasan**. 2024. Effect of *Lactobacillus rhamnosus* supplementation on intestinal health of mice. International journal of forest sciences. (**Published**). **IF 0**
- Wali Muhammad Mangrio, Sanaullah Sattar, Muhammad Arshad, Muhammad Amir, Muhammad Arshad, **Ali Hasan**. 2024. Phytochemical Screening and Microbial Activity of Essential Oil from Aerial Parts of *Murraya paniculata* (L.) Orange Jasmine. International Journal of Forest Sciences. 4(3):187-196. (**Published**). **IF 0**
- Sitara Jamshad , Shamsa Jabeen , **Ali Hasan** , Aftab Hussain , Muhammad Ahsan Raza , Shehzad Ahmad and Javed Iqbal Qazi. 2024. Isolation of Endospore-Forming Bacteria from Milk Collected from Selected Cities of Pakistan. Futuristic Biotechnology. 4(4) 46-55. DOI: <https://doi.org/10.54393/fbt.v4i04.124>. (**Published**). **IF 0**
- **Ali Hasan**, Amina Ayub, Ali Hussain, Adnan Mukhtar, Hannaan Ahmed, Muhammad Adnan Ali, Javed Iqbal Qazi. 2025. Histological Analyses of *Apis mellifera* Small Intestine Fed on Acidifying Agents and *Lactobacillus rhamnosus* Supplemented Diets. International Journal of Forest Sciences. 5(1):01-08.
- Hafiz Muhammad Awais Sarwar, Javed Iqbal Qazi, Sohail Ahmad, **Ali Hasan**, Ali Hussain. 2024. Supplementation of Chick Feed with KitchenWaste has No Negative Effect on Production Performance and Egg Characteristics of *Gallus gallus domesticus*. Pakistan J. Zool.1-9. DOI: <https://dx.doi.org/10.17582/journal.pjz/20230802064639>. **IF 0**

- Imania Ghaffar, **Ali Hasan**, Shahid Sherzada, Ali Hussain. 2025. Polystyrene microparticles suppressed Pb 2+ uptake potential of *Leptolyngbya boryana*. Bioremediation Journal. <https://doi.org/10.1080/10889868.2025.2544600>. IF 1.4

4.2 BOOK CHAPTERS

- **Ali Hasan**, Saima Rani, and Ali Hussain. 2025. Harnessing Engineered Probiotics for Gastrointestinal Diseases Therapy. Cell membrane engineering for advancing cell-based and nanotechnology-based therapies. Springer nature.
- Shehzad Ahmad, **Ali Hasan**, Ali Hussain. 2025. Behavior of Nanomaterials in Bacterial Environments: Mechanistic Insights. Springer nature.
- Naeem Mahmood Ashraf, **Ali Hasan**, Arslan Hamid. 2025. Environmental and economic considerations. Elsevier.

4.3 ABSTRACTS PUBLISHED IN NATIONAL/ INTERNATIONAL CONFERENCES

- **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.
- 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.
- 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.
- 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.
- 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,a pp. 181.

- 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.
- **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.
- 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.
- 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.
- 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.
- Sidra Atta, Ali Hussain, Arshad Javid, Muhammad Hafeez-ur-Rahman, Waqas Ali, Muhammad Akmal, **Ali Hasan**, Khalid Ali and Shahid Ali, 2017. Bioaccumulation of pesticide residues in different tissues of *Wallago attu* sampled from agriculturally impacted segment of the Ravi, Pakistan. 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-199, pp. 131.
- Khizra Ijaz, Ali Hussain, Arshad Javid, Muhammad Hafeez-ur-Rahman, Waqas Ali, Muhammad Akmal, **Ali Hasan**, Khalid Ali and Shahid Ali, 2017. Bioaccumulation of metal ions in different tissues of *Wallago attu* sampled from anthropogenically impacted segment of the Ravi, Pakistan. 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-200, pp. 132.

- **Ali Hasan**, Javed Iqbal Qazi, Fouzia Tabssum, Natalia Kharabadze, Ali Hussain, Shehzad Ahmad, Khalid Ali. 2023. Histological study of midgut of *Apis mellifera* fed with *Bacillus clausii* (BC-2Bio) and *Lactobacillus Brevis* (MF179529) supplemented diets. 41st Pakistan Congress of Zoology (International), organized by Institute of Zoology, University of the Punjab, Lahore, Pakistan, held on March 16-18, Abstract No. CBGP-57, pp. 45.
- **Ali Hasan**, Javed Iqbal Qazi, Fouzia Tabssum, Ali Hussain, Shehzad Ahmad, Amina Ayub and Natalia Kharabadze. 2023. Effect of organic acids and probiotics on intestinal health of *Apis mellifera*. 5th international conference on ‘Innovative Biological and public health research-2023’, organized by department of Zoology, Govt college University, Lahore, Pakistan, held on October 11-12, 2023, Abstract No. ENT-08, pp. 39.
- **Ali Hasan**, Javed Iqbal Qazi, Fouzia Tabssum, Ali Hussain, Shehzad Amad and Amina Ayub. 2023. Apipromoting potential of probiotics and acidifying agent concerning hypopharyngeal gland development, longevity, feed consumption and midgut health of *Apis mellifera*. 5th international conference on ‘Innovative Biological and public health research-2023’, organized by department of Zoology, Govt college University, Lahore, Pakistan, held on October 11-12, 2023, Abstract No. ENT-11, pp. 42.
- Munir Ahmad, Muhammad Khalil Ahmad Khan, Naveed Ahmad, Munazza Parveen, Khurram Shahzad and **Ali Hasan**. 2023. Histotoxicity Induced by Copper Oxide Nanoparticles (CuO-NPs) On developing Mice (*Mus musculus*), 5th international conference on ‘Innovative Biological and public health research-2023, organized by department of Zoology, Govt college University, Lahore, Pakistan, held on October 11-12, 2023, Abstract No. PHY-04, pp. 122.
- Shehzad Ahmad, **Ali Hasan** and Ali Hussain. 2023. Valorization of banana peel waste as growth substrate for the production of industrial cellulose, 5th international conference on ‘Innovative Biological and public health research-2023’, organized by department of Zoology, Govt college University, Lahore, Pakistan, held on October 11-12, 2023, Abstract No. PHM-11, pp. 144.
- Nabia Fayyaz , Arshia Mukhtar, Shamsa Jabeen , Ali Hussain , Muhammad Mushahid, Fatima Khalid, Amina Ayub, **Ali Hasan**, Maham fatima, Javed Iqbal Qazi. 2025. Growth of *Lactobacillus furfuricola* in different infant milk formulae and their antioxidant profile. Published in 43rd Pakistan Congress of Zoology (International), organized by Department of Zoology, University of Okara, Okara, Pakistan, to be held on June 23 – 25, 2025. pp
- Shahid Mahmood, Maryam Rasheeq, Muhammad Akmal, Ali Hussain, Shehzad Ahmed, Muhammad Mushahid, Fatima Khalid, Amina Ayub, **Ali Hasan**. 2025. Biogas slurry application on growth, nutrient uptake status and heavy metals concentration in cotton (*Bacillus thuringiensis*). Published in 43rd Pakistan Congress of Zoology (International), organized by Department of Zoology, University of Okara, Okara, Pakistan, to be held on June 23 – 25, 2025. pp
- Hafiz Muhammad Awais Sarwar, Muhammad Akmal, Shmasa Jabeen, **Ali Hasan**, Amina Ayub, Maha Maqsood, Javed Iqbal Qazi. 2025. Comparison of Production Performance and Egg Quality Parameters of Domestic Hens Fed with Whey, Food Waste and Commercial Feed. Published in 43rd Pakistan Congress of Zoology (International),

organized by Department of Zoology, University of Okara, Okara, Pakistan, to be held on June 23 – 25, 2025

- Muhammad Jamil, Sidra Safdar, Shamsa Jabeen, Amina Ayub, Maha Maqsood, Shahid Mehmood, Ali Hussain, Shehzad Ahmad, **Ali Hasan**. 2025. Environmental assessment of pathogenic bioaerosols in livestock farms through nasal swab sampling. Published in 43rd Pakistan Congress of Zoology (International), organized by Department of Zoology, University of Okara, Okara, Pakistan, to be held on June 23 – 25, 2025.pp
- Muhammad Waris, Ali Hussain, Muhammad Akmal, Aqsa Shams, Amina Ayub, KM Zeshan Yousaf, Shehzad Ahmed, Muhammad Jamil, **Ali Hasan**. 2025. Wake-Up Call: Chromium Poisoning Threatens Tannery Workers in Kasur, Pakistan. Published in 43rd Pakistan Congress of Zoology (International), organized by Department of Zoology, University of Okara, Okara, Pakistan, to be held on June 23 – 25, 2025. Pp
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- Muhammad Anas, Shahid Mahmood, Maryam Rasheeq, Maha Maqsood, Amina Ayub, **Ali Hasan**. 2025. Lab-scale treatment of pharmaceuticals via uv- oxidation and ozonation. Published in 43rd Pakistan Congress of Zoology (International), organized by Department of Zoology, University of Okara, Okara, Pakistan, to be held on June 23 – 25, 2025. Pp

4.4 SCIENTIFIC ESSAYS IN URDU FOR PUBLIC AWARENESS

بقائے صحت کے لیئے پروبائیوٹکس اور پری بائیوٹکس کا استعمال: وقت کی اہم ضرورت

- مائیکروالوجی کے استعمال کے فوائد- عوام کی بڑھتی ہوئی دلچسپی
- معاشی حیوانیات - روزگار کا ذریعہ
- اینٹی بائیوٹکس اور جراثیم کش مزاحم بیکٹیریا
- زونوسس: انسانوں اور جانوروں کے مابین بیماریوں کی منتقلی
- حیات و ممت کی وضاحت سے علم حیاتیات

4.5 RESEACRCH EXPERIENCE

Research Topic	Under the Supervision of	Research level	Duration
Valorization of fruit peel, organic acids and probiotics to improve efficiency of <i>Apis Mellifera</i>	Dr. Javed Iqbal Qazi Dr. Nasreen Muzaffar	P. hD	October 2017 to October 2022
Construction of cellulolytic and sulfate-reducing bacterial consortium for enhancing efficiency of cellulose-linked bioremedial processes	Dr. Waseem Khan	M. Phil	Dec 2014 to Mar 2016

4.6 RESEARCH SUPERVISION

4.6.1 UNDERGRADUATE RESEARCH (TECHNICAL REPORT) SUPERVISION

Sr No	Name	AG number	Supervisory Role	Title of Research
1.	Tayyba Asghar	2021-ag-6062	supervisor	The effect of ocean acidification on coral reef species
2.	Nimra Amin	2021-ag-6067	supervisor	Role of animal's conservation in sustainable development
3.	Mehak Fatima	2021-ag-6060	supervisor	Effect of global warming on baby lizard
4.	Anum Shehzadi	2021-ag-6066	supervisor	Herbivores, carnivores and omnivores: A comparison of digestive system: studying how diet affects anatomy and physiology across animal groups
5.	Hasna	2021-ag-6061	supervisor	Effect of climate change on butterfly
6.	Sonia Naeem	2021-ag-6063	supervisor	The importance of biodiversity hotspot in global conservation
7.	Eman Fatima	2021-ag-6064	supervisor	Effect of heavy metal on biological parameters of fishes
8.	Muhammad Umair Naeem	2021-ag-6080	2 nd member	Diversity and distribution of fishes in Pakistani rivers
9.	Tayyaba Binte- Nawaz	2021-ag-6083	2 nd member	<i>Helicobacter Pylori</i> in human peptic ulcer patient: pathogenesis, diagnosis and treatment
10.	Nisha Safdar	2021-ag-6077	2 nd member	Role of marine protected areas in sustainable fishing
11.	Aatka Ashfaq	2021-ag-6079	2 nd member	Physiological analysis of respiratory efficiency in different fishes

12.	Iqra Rafi	2021-ag-6078	2 nd member	Impact of climate change on small scale fisheries
13.	Maryam Iqbal	2021-ag-6082	2 nd member	Effects of global warming on species distribution in Pakistan
14.	Laiba Akram	2021-ag-6081	2 nd member	Impact of Uranium, Chromium and Nickle contamination in drinking water on chronic kidney disease progression

4.6.2 POSTGRADUATE RESEARCH (THESIS) SUPERVISION

Sr No	Name	AG number	Supervisory Role	Title of Research
1.	Ayesha Shaheen	2019-ag-5454	2 nd member	Effect of potato peel meal on growth performance and organoleptic characteristics of <i>Labeo Rohita</i>
2.	Huma Naseem	2015-ag-2235	2 nd member	Heavy metal detection in fish across different environments
3.	Tayyiba Saleem	2019-ag-5458	2 nd member	Fish feed development by potato peel incorporation in fish diet
4.	Asiya Bibi	2023-ag-1888	2 nd member	Effect of potato peel diet on proximate composition and carcass analysis of fish <i>Labeo Rohita</i>
5.	Areeba Naveed	2023-ag-1889	2 nd member	Blood heamatology and health impact assessment of fish <i>Labeo Rohita</i> with potato peel incorporation
6.	Usama Rehman	2019-ag-9604	3 rd member	Designing and evaluating a smart virtual assistant: revolutionizing task management and personalized user support

4.7 RESEARCH EXPERTISE/ INTERESTS, SKILLS

4.7.1 AREAES OF INTEREST: Cellulosic biomass valorization, Bio-energy, Beekeeping, Gut microbiota, Probiotics and prebiotics usage, Histology, Histopathology

4.7.2 LABORATORY SKILLS: Autoclave, Centrifuge, Spectrophotometer, Camera fitted microscope, Aseptic handling of microbes, Nanophotometer, Bacterial isolation, Bacterial, fungal culturing, Biochemical, genotypic characterization of the microbial isolates, Microscopy, Morphometrics analyses of Honeybee: *Apis mellifera*

4.7.3 COMPUTER SKILLS: MS office, Email/internet Usage, Networking, Software Installation, Data Management, SPSS

4.7.4 LANGUAGES SKILLS

Language	Speaking	Listening	Writing
English	Good	Good	Good
Urdu	Excellent	Excellent	Excellent
Punjabi	Excellent	Excellent	Good
Persian	Poor	Poor	Good
Arabic	Good	Poor	Good

5. EVENTS ORGANIZED AND PARTICIPATION

5.1. EVENTS ORGANIZED

- Actively organized **41st Pakistan Congress of Zoology (International)**, as active member of accommodation as well as food committees, organized by Institute of Zoology, University of the Punjab, Lahore, Pakistan, held on March 16-18, 2023.
- Actively organized **17th national hands-on training workshop on “Organic beekeeping practices”** on November 6-14, 2023 and certificate obtained, organized by Institute of Zoology, University of the Punjab, Lahore, Pakistan.
- Actively organized a national level webinar on the topic **“Women in fisheries: breaking barrier and building opportunities”**, on **28-10-24** at department of Zoology, Wildlife and fisheries, University of Agriculture Faisalabad, constituent College, Toba Tek Singh.
- Actively organized an international level webinar on the topic **“Food and food security: meeting global demand”**, on **28-10-24**, at department of Zoology, Wildlife and fisheries, University of Agriculture Faisalabad, constituent college, Toba Tek Singh.
- Actively organized an outreach activity programme on 6-11-24, in collaboration with Bhagat game reserve Rajana , Toba Tek Singh.
- Actively organized an event entitled **“Pakistan day”** as member of Art club, University of Agriculture Faisalabad, sub campus Toba Tek Singh on March, 21, 2025.
- Actively organized **Internship of the students** of UAF, constituent college Toba Tek Singh, at different sections under District Police Officer at District Police Officer Office, Started on November, 11, 2024.
- Actively organized a seminar entitled **“Animal friendly society”** as convener, at University of Agriculture Faisalabad, sub campus Toba Tek Singh on October, 22, 2025.
- Actively organized an event on the occasion of **“Iqbal day”** as member of Art club, University of Agriculture Faisalabad, sub campus Toba Tek Singh on November, 6, 2025.

5.2 EVENTS PARTICIPATION

- Actively participated in the **“One Day Seminar on World Fisheries Day”**, 2015 on November 24th 2015 Organized By Department Of Fisheries and Aquaculture, University Of Veterinary And Animal Sciences, Lahore-Pakistan, Under HEC-BC KEP Project.
- Actively participated in the **“33rd Pakistan Congress Of Zoology (International)” on, People and Climate**” jointly organized by Pakistan Museum Of Natural History, Islamabad And PMAS Arid Agriculture University, Rawalpindi On April 2-4, 2013.
- Attended 2 Days Hands-on-Training on **“Zoo Animal’s Keeping, Zoonoses And Bio-safety Measures”** On August 27-28, 2015, Held at Department Of Wildlife &Ecology, University Of Veterinary And Animal Sciences Lahore.
- Attended 5-Days training Workshop entitled **“Data Analytical Model Building And Proposal /Project Development”**, From 13-17 December,2016 organized by Department of Statistics and Computer Science, University of Veterinary and Animal Sciences Lahore with collaboration of Higher Education commission, Islamabad &PPQP, Government of Pakistan and Jackson State University Mississippi.
- Actively participated in a one-day seminar on **“Biodiversity Offsetting for Reservoir Fisheries”** organized by the Department of Fisheries, Government of the Punjab, held at Fish Biodiversity Hatchery Chashma, Mianwali on April 02, 2015.
- Attended one day Hands-on Training workshop entitled **“Potential of Sericulture for employment and income Generation”** on 15th Feb, 2018 jointly organized by University of the Punjab and Punjab Forestry and Research institute.
- Actively participated in the three days **“38th Pakistan Congress of Zoology (International)”** from 27 Feb to 1 March and made oral presentation, organized by University of the Punjab Lahore, Pakistan.
- Actively participated in one day Hands-on Training workshop on **Taxidermy techniques** on 28 December 2017 and certificate obtained, organized by University of Veterinary And Animal Sciences, Ravi Campus Pattoki.
- Actively participated in one day Hands-on Training workshop on **Taxidermy techniques** on 13 February 2018 and certificate obtained, organized by University of Veterinary And Animal Sciences, Ravi Campus Pattoki.
- Actively participated in one day national workshop on **Potential of Sericulture for employment and income generation** on 15 February 2018 and certificate obtained, organized by Department of Zoology, University of the Punjab Lahore.
- Actively participated in a two-day conference on **Trends and innovation in food processing technology: prospects and challenges** from 7-8 November 2018, organized by department of dairy technology, university of veterinary and animal sciences, Lahore, Pakistan.
- Actively participated in one-day seminar on **Integrated pest management** on 24 September 2019, jointly organized by department of wildlife and ecology UVAS, Ravi campus Pattoki and pestex environmental science, Pakistan.
- Actively participated in one-day seminar on **Pakistan snow leopard and ecosystem protection programme (PSLEP)** on 23 April, 2019, jointly organized by department of wildlife and ecology UVAS, Ravi campus Pattoki and Pakistan snow leopard foundation.

- Actively participated in two-days hands on training workshop on **Sanger sequencing data analysis**, from 10-11 April, 2019, organized by department of wildlife and ecology UVAS, Ravi campus Pattoki.
- Actively participated in **five-day vocational training on Modern honeybee keeping and management from**, organized by department of wildlife and ecology UVAS, Ravi campus Pattoki, Higher education commission Pakistan.
- Actively participated in **15th national Honeybee farming and management training workshop** on March 25-29, 2019 and certificate obtained, organized by Department of Zoology, University of the Punjab Lahore.
- Actively participated in **2-days workshop on Data analysis using SPSS** on March 4-5, 2020 and certificate obtained, organized by College of Statistical and Actuarial Sciences, University of the Punjab Lahore.
- Actively participated in one-day seminar on **“fish disease and control strategies”** on 28 January, 2019, funded by endowment fund secretariat UAF (project#RD027/17), organized by faculty of Fisheries and wildlife, UVAS, Ravi campus Pattoki and pestex environmental science, Pakistan.
- Actively participated in one day Training workshop on **Prevention and control of dengue** on December 2, 2019 and certificate obtained, organized by department of wildlife and ecology, University of Veterinary And Animal Sciences, Ravi Campus Pattoki.
- Actively participated in one day Training workshop on **Promoting research excellence in academics across Pakistan** on 1st and 2nd February and obtained an E-certificate, 2022, organized by Researcher Academy, ELSEVIER.
- Successfully completed online module on **How to write a helpful peer review report** on 10-02-2022 and E-certificate obtained, organized by Researcher Academy, ELSEVIER.
- Successfully completed online module on **How to peer review a review article** on 11-02-2022 and E-certificate obtained, organized by Researcher Academy, ELSEVIER.
- Successfully completed online module on **Introduction to the Certified peer Reviewer Course** on 11-02-2022 and E-certificate obtained, organized by Researcher Academy, ELSEVIER.
- Successfully completed **online module on Conference skills for researchers** on 16-02-2022 and E-certificate obtained, organized by Researcher Academy, ELSEVIER.
- Successfully completed online module on **How to build empathy in research** on 16-02-2022 and E-certificate obtained, organized by Researcher Academy, ELSEVIER.
- Actively participated in the three days **“41st Pakistan Congress of Zoology (International)”** 16-18, 2023 and made oral presentation, organized by University of the Punjab Lahore, Pakistan.
- Actively participated in one day online Training workshop on **Advanced Electron Microscopy** on February 28, 2022 and E-certificate obtained, organized by the British Microcirculation and vascular Biology Society, United Kingdom.
- Actively participated in one day online Training session on **Succeeding in your future post doc** on March 2, 2022 and E-certificate obtained, organized by D-Fi USA Docteurs Francis a l'international.

- Actively participated in one day hands-on training workshop on **Capacity Building of Young Scientists in Enzyme-linked Immunosorbent Assay (ELISA) as a diagnostic Tool for Emerging Infectious Diseases** on August 4, 2022, and certificate obtained, organized by Department of Wildlife and Ecology, UVAS, Ravi Campus, Pattoki.
- Actively participated in one day training workshop on **Agar Art Competition** on October 25, 2022, and certificate obtained, organized by Institute of Microbiology and Molecular Genetics, University of the Punjab, Lahore, Pakistan.
- Actively participated in **17th national hands-on training workshop on “Organic beekeeping practices”** on November 6-14, 2023 and certificate obtained, organized by Institute of Zoology, University of the Punjab, Lahore, Pakistan.
- Actively participated in **Insects webinars/Bees: from individual to social immunity** on May 16, 2024 and E-certificate obtained, organized by ‘Insects’, MDPI.
- Actively participated in three days international poultry expo entitled “international poultry expo-2024”, organized by Pakistan poultry association, on September 26-28, 2024.
- Actively completed online training entitled “Fully funded international Genomics and Bioinformatics bootcamp” organized by Genomac institute inc, on December, 31, 2024
- Actively participated in two days workshop entitled “career paths in it & freelancing /tech entrepreneurship” as guest speaker jointly organized by Xontech solution solutions, Lahore and University of Agriculture Faisalabad, sub campus Toba Tek Singh, on May 13-14, 2025.
- Actively completed training by prime minister’s national programme on CRP training organized at University of Agriculture Faisalabad, sub campus Toba Tek Singh, on October 18, 2024.
- Actively participated in an event entitled “Wadian Mela” organized by Art club, University of Agriculture Faisalabad, sub campus Toba Tek Singh, on April, 4, 2025.

6. MEMBERSHIPS OF LEARNED SOCIETIES

- Regular Member of International Society for Environmental Information Science.
- Honorary member of National Academy of Young Scientists Pakistan.
- Life Fellow of Pakistan Game Fish Association.
- Life Fellow of World Environmental Organization.
- Life Fellow of University of Veterinary and Animal Sciences Alumni association.

7. AWARDS/ DISTINCTIONS

- Hafiz-I-Quran.
- Roll of honor in B.sc on securing second position at college.
- Ability to Do Multiple Tasks (Multidisciplinary Man).

8. REFERENCES

- Prof. Dr Rashad Khan Qadri, Principal, University of Agriculture Faisalabad, Constituent college Toba Tek Singh, Email address: rashad.qadri@uaf.edu.pk,

- Prof. Dr Zia ur Rehman, Professor, University of Agriculture Faisalabad, Constituent college Toba Tek Singh, Email address: drzia@uaf.edu.pk
- Prof. Dr. Javed Iqbal Qazi (R), Institute of Zoology, University of the Punjab, Lahore, Pakistan. Email address: qazi.zool@pu.edu.pk Contact No:+92333-4344830
- Dr. Ali Hussain, Associate Professor, Institute of Zoology, University of the Punjab, Lahore, Pakistan. Email address: ali.zool@pu.edu.pk, Contact No :+92333-4974021