

Biographical Sketch

(Dr. Muhammad Irfan Ullah)



General information

- Born on 12th of December 1975. Sex: Male
- Religion: Islam
- Nationality: Pakistani
- Address: House # P-333, Street # 14, Model Town (B), Faisalabad, Pakistan
- Home tel # 0092 412 614657
- Personal Cell # 0092 302 609 3663
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Formal Education

Year	Field of Study	Institution/Board
2007-2013	PhD (Veterinary parasitology)	University of Agriculture Faisalabad, Pakistan
1998-2000	M.Sc (hons) Vet. Clinical Medicine & Surgery	University of Agriculture Faisalabad, Pakistan
1993-1998	DVM (Doctor of Veterinary Medicine)	University of Agriculture Faisalabad, Pakistan
1990-1992	F.Sc (Pre-medical)	BISE Faisalabad, Pakistan
1980-1990	Matriculation	BISE Faisalabad, Pakistan

Skills

Research expertise

Immunological Techniques

QRT-PCR, Western Blotting, ELISA (Enzyme Linked Immunosorbent Assay) HAT (Haemagglutination Test), IHAT (Indirect Haemagglutination Test), Macrophage Culture assay, Comet Assay, Cutaneous basophilic hypersensitivity assay, Spleenic cell migration assay,.

Parasitology Techniques

In vitro cultivation of Parasites (Sporulation of coccidial oocyst), Isolation of abomasal and intestinal worms, Flootation and sedimentation techniques, skin scrapings, Fecal diagnostic techniques.

Biochemical Techniques

HPLC (High Performance Liquid Chromatographic Column), Gel Filtration, Size exclusion chromatographic techniques.

Academic Experience

I have 13 years of academic experience of teaching and coordinating with undergraduate and postgraduate fellows.

Administrative Skills

1. Timetable Committee
2. Departmental Purchase Committee
3. Estate Management Committee
4. Student Advisor
5. Technical Evaluation Scrutiny Committee
6. Member editorial committee of FVS Newsletter
7. Focal person for implementation of SOPs regarding COVID-19
8. Secretary Departmental Admission Committee
9. Focal Person for Learning Management System (LMS)

Work Experience

7 Jul 2015- till date

Working as Assistant Professor in Department of Pathobiology (TTS)

Duties performing

<https://profiles.bzu.edu.pk/muhammadirfanullah>

- Currently involved in academic, research and administrative activities

Academic

- Incharge of Undergraduate Lab (Parasitology)
- Member of the Time Table committee
- Assistant director state of FVS BZU

Research

- PI (project incharge) of two projects mentioned in the project section.

- Organizing research of graduate students of the department
- Project report writing and manuscript writing

4 Feb 2013-06 July 2015

Worked as Assistance Professor in Department of Physiology Government College University Faisalabad Pakistan

Duties performing

- Currently involved in academic, research and administrative activities

Academic

- Course coordinator of undergraduate and postgraduate courses
- Member of the examination coordinator committee of department
- Member of the curriculum committee

Research

- PI (project incharge) of two projects mentioned in the project section.
- Organizing research of graduate students of the department
- Project report writing and manuscript writing

Administrative

- Organizer of one undergraduate batch of BS Physiology
- Member of departmental purchase committee
- Member of departmental seminar organizing committee
- Incharge of undergraduate and postgraduate labs.

2007- 2013

Immunoparasitology Lab, University of Agriculture Faisalabad Pakistan
Worked as HEC Scholar Indigenous Scholarship Batch V

Duties performed

- Seminar organization
- Student organization for research work
- Clinical parasitology, farm visits, farmer meetings, Herd health programs
- Training of postgraduate students in clinical parasitology
- Progress and financial reports of different projects
- Official letters vetting
- Research work

Worked on Soxhlette apparatus, ELISA reader, HPLC, Rotary evaporator, lyophilizer, laminar flow hood, different sorts of centrifuges, different types of microscopes and several other instruments.

Research Projects & Manuscripts

Research Projects (Completed)

1- Immunomodulatory effects of some locally available mushrooms in chicken and their therapeutic effects against coccidiosis. Status: **Completed**, Funding Agency Higher Education Commission under the scheme of Indigenous Scholarship. **Pak Rs: 1.5 million.**

2- Antihypercholesterolemic and immunomodulatory activity of button mushroom (*Agaricus bisporus*) and *Lactobacillus* probiotic, with their subsequent effects on bio health markers and gut microbial ecology. Status: **Completed**. Funding agency: higher Education Commission under the scheme of SRGP (Startup Grant Project IPFP). **Pak Rs: 0.5 million.**

3- Estimation of protein and productive efficiency profile of locally produced Oyster Mushroom (*Pleurotus ostreatus*) in broiler. Status: **Approved and Completed**. Funding agency: PARC (Pakistan Agriculture and Research Council), Islamabad. **Pak Rs: 1.48 million. As Co-PI**

In Process

1. Development of a Synergistic Phytogenic Blend for Enhanced Immunity and Control of Enteric Infections in Poultry. Amount (14.31 m) NRPU **Shortlisted**
2. Green Alternatives for Poultry Enteric Health: Use of Plant-Based Immunomodulators to Reduce Antibiotic Usage in Management of Enteric Diseases in Poultry. Amount (18.411 m) PARB **Submitted**

Research Manuscripts

1. **Effects of Various Semen Extenders on the Hatching Characteristics of Japanese Quail (Journal)**
Raziq F, Khan MT, Ullah A, Farooq U, Akhtar R, Siddique B, Abbas G, Ali F, Aslam S, Khaliq H, Ali H, Khalid MF, Ullah MI, Aljawdah HM, Farah MA
Brazilian Journal of Poultry Sciences 2025
2. **A Cross-Sectional Serological Study to Assess the Prevalence and Risk Factors of Anaplasmosis in Dromedary Camels in Punjab, Pakistan**
Muhammad Zaeem Abbas, Muzafar Ghafoor, Muhammad Hammad Hussain, Mughees Aizaz Alvi, Tariq Jamil, Muhammad Sohail Sajid, Munazza Aslam, Ali Hassan, Shujaat Hussain, Mian Abdul Hafeez, Muhammad Irfan Ullah, Iahtasham Khan, Khurram Ashfaq, Ghulam Muhammad, Katja Mertens-Scholz, Heinrich Neubauer, Hosny El-Adawy and Muhammad Saqib. **Veterinary Sciences 2024**
3. **Conyza bonariensis L. Impact on Carbohydrate Metabolism and Oxidative Stress in a Type 2 Diabetic Rat Model.**
Imtiaz Mustafa, Shahzad Irfan, Ghulam Hussain, Muhammad Umar Ijaz, Muhammad Irfan Ullah, Jaweria Nisar, Tahir Maqbool and Haseeb Anwar
Bioinformatics and Biology Insights, 2024

4. **Mechanistic approach to investigate the induction of toxicity by magnesium oxide nanoparticles on testicular, nervous and muscular tissues of albino rats.**
 Gulnaz Afzal, Muhammad Irfan Ullah, Nadeem Ali, Moeen Afzal, Riaz Hussain, Nabil A Alhakamy, Nisreen Rajeh, Sarmad Rehan, Rehana Iqbal, Muhammad Shahid Iqbal, Ahrar Khan. Asian Journal of Agriculture and Biology, Vol. 4, Pages: 1-12,
5. **Effects of environmental relevant concentrations of acetochlor on growth, hematology, serum biochemistry and histopathology of Japanese quail**
 Naveed Arshad, Sana Alam, Muhammad Rafay, Ghazala Jabeen, Kashif Hussain, Riaz Hussain, Muhammad Irfan Ullah, Mujahid Iqbal, Dalia Fouad, Farid Shokry Ataya. **PLOS One**, Vol. 9, Pages: 1-19
6. **Functional genomics analysis of Leptin Melanocortin System genes reveals candidate genes associated rapid growth and high carcass yield in sheep**
 Shishay Girmay, Nabeel Ijaz, Muhammad Irfan Ullah, Gulnaz Afzal, Amar Nasir, Shazia Perween, Amtul sami, Nain Tara, Shaista Abbas, Sayyed Aun Muhammad, Shakeel Ahmed, Jilong Han, Huma Ali, Saud Alarifi and Hafiz Ishfaq Ahmad
Journal of King Saud University, 2023. 1 (35).
7. **Investigations of Hemato-Biochemical, Histopathological, Oxidative Stress and Reproductive Effects of Thiram in Albino Rats**
 Ramya Ahmad Sindi, Sana Alam, Muhammad Rizwan, Muhammad Irfan Ullah, Nabeel Ijaz, Zahid Iqbal, Rabia Muzafar, Rabia Akram, Muhammad Waqas Nazar and Riaz Hussain
Pakistan Veterinary Journal, 43(2) 255-261.
8. **Molecular Evolution of the Activating Transcription Factors Shapes the Adaptive Cellular Responses to Oxidative Stress**
 Hafiz Ishfaq Ahmad, Asia Iqbal, Nabeel Ijaz, Muhammad Irfan Ullah, Akhtar Rasool Asif, Abdur Rahman, Tahir Mehmood, Ghulam Haider, Shakeel Ahmed, Samy F. Mahmoud, Fatimah Othman Alghamdi, Hala Abdulrahman Al Amari, Mario Juan Simirgiotis and Jinping Chen.
Oxidative Medicine and Cellular Longevity, 2022
9. **Ameliorating Effects of Different Extracts of Culinary Mushroom Species on the Production Performance of Healthy and Eimeria Infected Commercial Broiler Birds**
 Muhammad Irfan Ullah, Masood Akhtar, Muhammad Irfan Anwar, Mian Muhammad Awais, Kashfa Khaliq and Nabeel Ijaz
International Journal of Agriculture And Biology, 2021 26(1). 39-44.
10. **Seroprevalence and risk factors of toxoplasmosis in beetal goats in district faisalabad and its association with reproductive problems**
 Muhammad Saqib Saeed, Umair Ashraf Randhawa, Ijaz Ahmad, Muhammad Irfan Ullah, Shafia Tehseen Gul, Muhammad Muzzamil Hassan, Ejaz Ahmad, and Nabeel Ijaz
Pakistan Journal of Agriculture Sciences, 2021. Volume 58 Issue 2 Pages 693-698.
11. **White Button Mushroom, Agaricus bisporus (Agaricomycetes), and a Probiotics mixture Supplementation Correct Dyslipidemia without Influencing the Colon Microbiome Profile in Hypercholesterolemic Rats.**
 Farhan Asad, Haseeb Anwar, Hadi M. Yassine, Muhammad Irfan Ullah, Aziz-ul-Rahman, Zahid Kamran, Muhammad Umar Sohail,
International journal of Medicinal Mushrooms, 2020. Volume 22 Issue 3, Pages 235-244.

12. **Effects of Feeding Frequency and Fodder Particle Size on the Production Performance of Lactating Cows.**
Ahsan Fayyaz, Muhammad Lateef, Nabeel Ijaz, Muhammad Amjad Ali, Muhammad Irfan Ullah
Pakistan Journal of Life & Social Sciences, 2019. Volume 17, Issue 2, 100-104.
13. **White Button Mushroom, *Agaricus Bisporus* (Agaricomycetes), And A Probiotics Mixture Supplementation Correct Dyslipidemia Without Influencing The Colon Microbiome Profile In Hypercholesterolemic Rats**
Farhan Asad, Haseeb Anwar, Hadi M. Yassine, Muhammad Irfan Ullah, Aziz-ul-Rahman, Zahid Kamran & Muhammad Umar Sohail
International Journal of Medicinal Mushrooms, 2020 22(3). 235-244.
14. **Immunomodulatory and ameliorative effects of *Lactobacillus* and *Saccharomyces* based probiotics on pathological effects of eimeriasis in broiler**
Mian Muhammad Awais, Muhammad Asif Jamal, Masood Akhtar, Muhammad Raza Hameed, Muhammad Irfan Anwar, Muhammad Irfan Ullah
Microbial Pathogenesis, 2019
Volume 126 pp. 101–108.
15. **Immunological and anti-Eimeria Effects of Hot Water and Methanolic Extracts of *Pleurotus sajor-caju* in Broiler.**
Muhammad Irfan Ullah, Masood Akhtar, Mian Muhammad Awais, Muhammad Irfan Anwar, Kashfa Khaliq
Kafkas Veterinary Journal, 2018, Volume 24, Issue 6, pp. 893-898
16. **Evaluation of immunostimulatory and immunotherapeutic effects of tropical mushroom (*Lentinus edodes*) against eimeriasis in chicken**
Muhammad Irfan Ullah, Masood Akhtar, Mian Muhammad Awais, Muhammad Irfan Anwar, Kashfa Khaliq
Tropical Animal Health and Production, 2018. Volume 50, Issue 1, pp. 97–104
17. **Molecular analysis of the gut microbiome of diabetic rats supplemented with prebiotic, probiotic, and synbiotic foods.**
Muhammad Umar Sohail, Muhammad Zubair Shabbir, Jörg M Steiner, Shakeel Ahmad, Zahid Kamran & Haseeb Anwar, Ghulam Hussain, Arsalan Shaukat, Muhammad Irfan ullah, Jan S. Suchodolski.
International Journal of Diabetes in Developing countries, 2016, Volume 1 pp.1-7
18. **Bimolecular identification of *M. ovipneumoniae* from nasal swab samples of sheep from various districts of Balochistan, Pakistan**
Shahid Amin, Sajjad ur Rahman, Iftikhar Hussain, Ghulam Muhammad, Mohammad Arif Awan, Zafer Ahmad, Mohammad Masood Tariq, Muhammad Irfan Ullah, Muhammad Azam Kakar
International journal of Advanced Biological and Biomedical Research, 2016, Volume 4 pp. 32–39
19. **Sero-epidemiology of equine toxoplasmosis using a latex agglutination test in the three metropolises of Punjab, Pakistan**
Muhammad Saqib, Hussain MH, Sajid MS, Mansoor MK, Asi MN, Fadya A, Zohaib A, Sial AUR, Muhammad, G, and Ullah I.
Tropical biomedicine, 2015. Volume 32 pp. 276-285

20. Evaluation of Health Biomarkers in Hyperlipidemic Albino Rabbits after Treatment with *Withania somnifera* and *Lactuca scariola*

Haseeb Anwar, Zia-ur-Rahman, Muhammad Umar Sohail, Arslan Iftikhar, Ghulam Hussain, Muhammad Irfan Ullah, Muhammad Amjad Ali and Arslan Shaukat

Pakistan Journal of Life and Social Sciences, 2015. Volume 13, pp. 31-36

21. Immunomodulating and Antiprotozoal Effects of Different Extracts of the Oyster Culinary Medicinal Mushroom *Pleurotus ostreatus* (Higher Basidiomycetes) Against Coccidiosis in Broiler

Muhammad Irfan Ullah, Masood Akhtar, Zafar Iqbal, Muhammad Shahid, Mian Muhammad Awais

International Journal of Medicinal Mushrooms, 2014. Volume 17. pp. 309-317

22. Immunotherapeutic Activities of Mushroom Derived Polysaccharides in Chicken

Muhammad Irfan Ullah, Masood Akhtar, Zafar Iqbal and Faqir Muhammad

International Journal of Agriculture & Biology 2014. Volume 16, pp. 269-276

Abstracts presented In the International Conferences

Sr. No	Title of Conference	Venue	Year & Date	Topic of Presentation	International / National	Oral presentation / poster presentation
01	2016 International Poultry Scientific Forum (Principal Author)	Georgia World Congress Centre Atlanta Georgia	January 25 to 26, 2016	Immunological and anti-eimeria activities of hot water and methanol extracts of <i>Pleurotus sajor-caju</i> in broiler	International	Oral Presentation (Main Author, Self-presented) (Travel Grant awarded)
02	2 nd International Conference on Zoonoses-2016 (Co-Author)	Faculty of Veterinary Sciences Bahauddin Zakariya University Multan, Pakistan	October 20 to 21	Sero-prevalence of equine brucellosis in five districts of Punjab province	International	Poster (Co-Author)
03	Poultry Science Conference (PSC@IPEX 2017) (Co Author)	Pakistan Poultry Association	August 24-26, 2017	Effect of probiotics and Trichothecenes contaminated feed on	International	Oral (Co-Author)

				performance and histopathological impact on intestinal villus of broiler		
04	14 th International Congress of Parasitology ICOPA 2018 (Co-Author)	Daegu, Korea	August 19 to 24, 2018	Evaluation of biological response modifying and immunotherapeutic effects of <i>Ficus religiosa</i> derived extracts against coccidiosis in chickens	International	Oral (Co-Author)
05	2019- International Poultry Scientific Forum (Principal Author)	Georgia World Congress Centre Atlanta Georgia	February 11-12, 2019	Beneficial effects of different extracts of edible mushroom species on production performance of healthy and Eimeria infected commercial broiler birds	International	Oral (Main Author, Self-presented) (Travel Grant Awarded)
06	International Conference on Farriery and Allied Veterinary Sciences (Co-Author)	Online	December 07, 2020	Seroprevalence and risk factors of Toxoplasmosis in Beetal goats in District Faisalabad and its relation to reproductive problems	International	Poster (Co-Author)
07	International Conference on Farriery and Allied Veterinary Sciences (Co-Author)	Online	December 07, 2020	Aloe vera proteins as biological response	International	Poster (Co-Author)

				modifiers in chicken		
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Book Chapters

01. Gut Microbiome: A New Organ System in Body

Haseeb Anwar, Shahzad Irfan, Ghulam Hussain, Muhammad Naeem Faisal, Humaira Muzaffar, Imtiaz Mustafa, Imran Mukhtar, Saima Malik and **Muhammad Irfan Ullah**

Submitted: March 6th, 2019 Reviewed: September 9th 2019 Published: November 5th 2019

DOI: 10.5772/intechopen.89634

02. Book; Biochemistry of Drug resistance

Chapter: Drug resistance in protozoal infections

Hafiz Muhammad Rizwan, Haider Abbas, Muhammad Sohail Sajid, Mahvish Maqbool, Malcolm K. Jones, **Muhammad Irfan Ullah** & Nabeel Ijaz

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