Dr. Maryam Iqbal

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Google scholar

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RESEARCH TECHNIQUES AND TRAINING:

Top Skills

- Isolation and culturing of Mouse Hepatocytes
- Mouse model of liver fibrosis
- Differentiation of Stem Cells toward Hepatic Lineage
- Animals' surgery and transplantation of stem cells
- Immunostaining
- Histological staining (H &E staining, Masson Trichome staining, Sirius red staining)
- DNA extraction from blood
- RNA Extraction from blood, Cells and Tissue
- Gel-Electrophoresis
- Western Blotting
- In vitro antiglycation Assay and PTP 1B inhibition.

Equipment

- Real time PCR
- Confocal Microscope
- ELIZA microplate reader
- Flow cytometry
- Spectrophotometry
- Spectroflourophotometry

Software Image J software, graph pad prism 7 and relevant software's to above

equipment's etc.

Language English; Urdu

EDUCATION:

Year of completion PhD Biochemistry 2023

Abdul Wali Khan University, Mardan (AWKUM), KPK, Pakistan.

Thesis: Combinatorial Therapeutic Potential of Stem Cells and New Chemical Entities for the attenuation of Liver Fibrosis

EXPERIENCE:

2023 to Present ASSISTANT DIRECTOR TEACHING

University of Veterinary and Animal Sciences Swat, KP, Pakistan

2023 to Present Lecturer BIOCHEMISTRY (Visiting)

University of Veterinary and Animal sciences Swat, KP, Pakistan

2020 Researcher (IRSIP)

National University of Singapore

Research work:

- Culturing of Bone Marrow Derived Stem Cells
- Isolation and culturing of Mouse Hepatocytes
- Immunostaining
- Real time PCR analysis
- Training on Equipment's available in Lab of Physiology NUS (Singapore)

2018-2019 Lecturer Biochemistry

Abdul Wali Khan University Mardan KP, Pakistan

2016-2023 Lecturer Biochemistry

Seena institute of Medical Sciences Swabi, KP

2011-2015 Lecturer Chemistry

Govt. Girls Degree College Karnal Sher Killi, Swabi, KP, Pakistan

Research interests:

- 1. Culturing Stem cells and Hepatocytes Cells
- 2. Cell therapy for Liver Regeneration
- 3. Using stem cells for therapy of different diseases of Liver Diseases.

PUBLICATIONS:

- 1. **Maryam Iqbal**, Sulaiman Shams, Huma Rafiq, Momin Khan et al; (2023), Combinatorial Therapeutic Potential of Stem Cells and Benzimidazol Derivatives for the Reduction of Liver Fibrosis. Pharmaceuticals 2023, 16(2), 306; https://doi.org/10.3390/ph16020306.
- Huma Rafiq Muhammad Ayaz, Haider Ali Khan, Maryam Iqbal, Sulaiman Shams et al., (2022) "Therapeutic potential of stem cell and melatonin on the reduction of CCl4 induced liver fibrosis in experimental mice model". Brazilian Journal Biology, 2022 Mar 16; 84:e253061. https://doi.org/10.1590/1519-6984.253061.
- 3. Mahboob Ali, Momin Khan, Khair Zaman, Abdul Wadood, **Maryam Iqbal**, Aftab Alam, Sana Shah, Ashfaq Ur Rehman, Muhammad Yousaf, Rafaila Rafique and Khalid Khan*(2020) Chalcones: As potent α-amylase enzyme inhibitors; synthesis, in vitro, and in-silico studies. Journal of Medicinal Chemistry. https://pubmed.ncbi.nlm.nih.gov/32525781.
- 4. Sulaiman Shams, Fawad Iqbal, Muhammad Ayaz, Haider Ali Khan, Huma Rafiq, Nazia Imran, **Maryam Iqbal** at all (2024) Effect of Stone Dust on the Health Status of Workers in Marble Industries of Khyber Pakhtunkhwa Pakistan. Journal of Population Therapeutics & Clinical Pharmacology https://www.jptcp.com/index.php/jptcp/article/view/4567/4504.
- Muhammad Ayaz, Maryam Iqbal, Sulaiman Shams at all (2024) Preconditioning of Stem Cells with Silver Nanoparticles can Reduce Liver Fibrosis in Mice. Journal of population therapeutics & clinical Pharmacology https://www.jptcp.com/index.php/jptcp/article/view/5225./

- 6. Muhammad Ayaz, Ikram Ullah, Nazia Imran, Maryam Iqbal, Sulaiman Shams at all (2024) Characterization and Anti-hepatic Fibrosis Activity of AgNPs Produced through Green Synthesis Method using Citrullus colocynthis Plant Extract: Characterization and Anti-hepatic Fibrosis Activity of AgNPs.

 Journal of population therapeutics & clinical Pharmacology https://www.iptcp.com/index.php/jptcp/article/view/6033.
- Tahseen Anwer, Iqra Shahzadi, Syed Anwaar Hussain Shah, Amna Nasir, Arslan khan, Maryam Iqbal, Sayeda Nimra Jabeen at all (2025) Solar Photocatalytic Removal of Natural Organic Matter using Fluorinated Calcium Zincate Grafted on Gravel. Indus Journal of Bioscience Reseach https://induspublishers.com/IJBR/article/view/429/421.
- 8. Muhammad Tauseef Ahmad, Muhammad Tahir Sarfraz khan, Esha Mustafa, Rahmeen Ajaz, Mirza Muhammad Arslan Azam, **Maryam iqbal**, Shahzada Khurram Adrian Shah, Muhammad Umair (2025) Evaluating The Diagnostic Efficacy of Rt-Pcr And Immunohistochemistry For Peste Des Petits Ruminants In Goats: Insights Into Age-Related Susceptibility In Endemic Regions of Pakistan. History of Medicine https://historymedjournal.com/HOM/index.php/medicine/article/view/1128.
- 9. Tariq Azam, IbadUllah, **Maryam Iqbal**, Fatima Atta, Basit Ali Khan, Murad Ali Khan. (2025). Malaria Parasite Prevalence and Diagnostic Strategies in Khyber Pakhtunkhwa, Pakistan. Journal of Animal and Plant Research. https://theskyscience.com/index.php/japr/article/view/50/34
- 10. Khalid Aziz, Muhammad Ashraf, Farwa Batool, Fareeha Imran, Shahzada Khurram Adrian shah, Hafiz Misbah ud Din, Maryam Iqbal, Sana Siddique, Umber Rauf, Hafiz Munsif Alam (2025). Investigation of the Cardio Protective Role of Justicia Adhotoda Leaf Extract Against Isoproterenol-Induced Myocardial Infarction in Rat Model. Scholars Academic Journal of Bioscience research https://saspublishers.com/journal-details/sajb/161/1585/
- 11. Muhammad bilal, Muhammad adeel faizan, Muhammad shahbaz, Shahzada Khurram Adrian shah, Muhammad Najmus Saqib, Arsalan said, Sher Muhammad, Maaz Noor, **Maryam Iqbal,** Umair Ahmad (2025). The Association Between Nutritional and Managemental Practices and the Incidence of Reproductive Disorders in Large Ruminant. Indus Journal of Bioscience Research. https://induspublishers.com/IJBR/article/view/993/918
- 12. Syed ali shuja, Muhammad usman, Waqar younis, Saba Iftekhar, Faisal ali samoon, Maqsood ahmad, sahar hafeez, mehtab chohan, **Maryam Iqbal** (2025). Effect of Immune-Modulating Interventions on Trained Immunity and Disease Resistance

- against Avian Influenza in Commercial Poultry: A Controlled Trial. Indus Journal of Bioscience Research https://induspublishers.com/IJBR/article/view/1220/1140
- **13.** Hazrat Umar Khan, Duaa Tariq, Eman Shafqat Abbasi, Azka Sadat, Safa Naseem, Abdus Salam, Javeria Maqbool, **Maryam Iqbal** (2025). Association between Household Food Insecurity and Nutritional Status among Preschool Children in Dir Lower Khyber Pakhtunkhwa Pakistan. Annual Methodological Archive Research Review. http://amresearchreview.com/index.php/Journal/article/view/75.
- 14. Waqar younis, Nazima yousaf khan, Farah Tanveer, Muhammad asfandyar khan, Muhammad Tayyab, Tariq Aziz, Hafiz Munsif Alam, Maryam Iqbal (2025). Exploring the Combined Impact of Probiotics and Organic Acids as Alternatives to Antibiotics on Gut Microbiome Balance and Disease Resistance in Broilers: A Randomized Controlled Trial. Indus Journal of Bioscience Research http://induspublishers.com/IJBR/article/view/1278.
- 15. Hafiz Nidaullah, Ibadullah Jan, Sahar Nigar, Saima Sohni, **Maryam Iqbal**, Khalid Khan, Shoiab Sultan (2025). Blood Chemistry, Liver Function and Serum Glucose Profiles of Broilers Health offered Mixed Herbal Recipes. Global Research Journal of Natural Science and Technology (Multidisciplinary journal) https://www.grjnst.com/index.php/view/article/view/46.

AWARDS:

✓ IRSIP (International Research Support Initiative Program) HEC

REFERENCES:

♦ Associate Professor, Dr. Sulaiman Shams

Department of Biochemistry AWKUM, KP Pakistan

Email: sulaiman@awkum.edu.pk, Contact: Cell: +92-333-9202865

♦ Professor, Dr. Umar Sadique Khattak

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Pakistan. Email: druskhattak@yahoo.com,

Contact: Cell: +92 300 9030316