

CURRICULUM VITAE



Muhammad Rizwan Alam

PhD (Molecular Medicine)

Associate Professor

Department of Biochemistry

Quaid-i-Azam University, Islamabad, Pakistan

Education

PhD (Molecular Medicine)	Medical University of Graz, Austria	2013
MPhil (Biochemistry/Molecular Biology)	Quaid-i-Azam University, Pakistan	2010
MSc (Biochemistry)	PMAS Arid Agriculture University, Pakistan	2005
BSc (Medical Lab Technology)	National Institute of Health, Pakistan	2002

Experience

2023 to date	Associate Professor, Quaid-i-Azam University, Islamabad, Pakistan
2017-2023	Assistant Professor, Quaid-i-Azam University, Islamabad, Pakistan
2013-2016	Postdoctoral Fellow, Civil Hospital of Lyon/UCBL, Lyon, France
2005-2009	Product Manager (Bio-Solutions, part time), Med Lab Services, Pakistan
2003-2005	Product Specialist (part time), Pakistan Microbiological Associates
2002-2003	Cytotechnologist (Jr. Scientific Officer), Armed Forces Institute of Pathology, Pakistan
1999-2002	Medical Technologist (part time), Ibne Sena Lab & Diagnostic Center, Pakistan

5 Recent Publications (H-index: 15)

1. Aloesin-loaded chitosan/cellulose-based scaffold promotes skin tissue regeneration. A Hameed, M Tariq, S Sadia, **MR Alam**, A Haider, HM Wahedi. *International Journal of Biological Macromolecules*. 273(1)-133030 (2024)
2. Inhibition of mitochondrial calcium transporters alters ADP-induced platelet responses. D Shehwar, S Barki, A Aliotta, L Veuthey, D Bertaggia Calderara, L Alberio, **MR Alam**. *Molecular Biology Reports*. 51-177. (2024)
3. A loss of function variant in AGPAT3 underlies intellectual disability and retinitis pigmentosa (IDRP) syndrome. Madiha Amin Malik, Muhammad Arif Nadeem Saqib, Edwin Mientjes, Anushree Acharya, **MR Alam**, Ilse Wallaard, Isabelle Schrauwen, Michael J Bamshad, Regie Lyn P Santos-Cortez, Ype Elgersma, Suzanne M Leal, Muhammad Ansar. *European Journal of Human Genetics*. 31(12)- 1447-1454. (2023)
4. Hepatitis C virus replication requires integrity of mitochondria-associated ER membranes. Sarah Duponchel, Lea Monnier, Jennifer Molle, Nadia Bendridi, **MR Alam**, Ahmed Gaballah, Boyan Grigorov, Alexander Ivanov, Marcel Schmiel, Margarete Odenthal, Michel Ovize, Jennifer Rieusset, Fabien Zoulim, Birke Bartosch. *JHEP Reports*. 5(3)-100647. (2023)
5. Asymmetric Opening of Mitochondrial Permeability Transition Pore in Mouse Brain Hemispheres - A Link to Mitochondrial Calcium Uniporter Complex. M Batool, H Fayyaz, **MR Alam**. *Brazilian Journal of Pharmaceutical Sciences*. 58, 1-11 (2022).

Research Grants

1. 2024-2025- Swiss Heart Association, Switzerland Research Grant of 80,000 CHF as **International Collaborative Grant** on "The Role of Cell-Free Mitochondrial DNA in Platelet Hyperactivation: Implications for Cardiovascular Disease in Diabetes Mellitus.
2. 2024-2026- PSF CRP Research Grant of 4.1 Millions PKR as **Principal Investigator** on "Development, Validation and Commercialization of a Viral Nucleic Acid Isolation Assay-A Product with Enormous Potential in Clinical Diagnostic Sector of Pakistan."
3. 2022-2025- HEC NRPU Research Grant of 12.15 million Received in June 2022 as **Co-Principal Investigator** on "Elucidation of Sirtuin Targets with Therapeutic Potential in Diabetic Wound Healing.
4. 2018-2021- HEC NRPU Research Project of 3.2 million Completed in July 2022 as **Principal Investigator**: "Post-translational modification of Mitochondrial Calcium Uniporter – A potential biomarker for coronary heart disease".
5. 2018-2019- Project Grant (HEC, ISULL), of PKR 1.9 million completed as **Principal Investigator**, Therapeutic potential of natural compounds on the inhibition of mitochondrial permeability transition pore.