Dr. Sara Mumtaz

Tenured Associate Professor

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Profile:

Dr. Sara Mumtaz is a distinguished Tenured Associate Professor at the National University of Medical Sciences (NUMS), specializing in advanced biomedical research and academic leadership. With over 10 years of experience, her expertise lies in bridging the gap between theoretical molecular frameworks and clinical applications. Dr. Mumtaz has established a significant research footprint through her work on genetic disorders, contributing to the development of innovative diagnostic and therapeutic methodologies. She has been instrumental in leading high-impact research initiatives and has a proven track record of mentorship, guiding undergraduate and postgraduate scholars through complex genomic investigations. Her academic journey is marked by a commitment to institutional excellence and international collaboration, ensuring that her research aligns with global healthcare standards. Dr. Mumtaz continues to drive scientific advancement at NUMS through rigorous peer-reviewed publications and the integration of cutting-edge medical and molecular genetics research.

Research Interest

Molecular Genetics, Personalized Medicine, Cancer Biomarkers, Cellular Pathology, Genomic Epidemiology

Selected Publications:

GBD 2023 Breast Cancer Collaborators…..Mumtaz S. 2026. Global, regional, and national burden of breast cancer among females, 1990-2023, with forecasts to 2050: a systematic analysis for the Global Burden of Disease Study 2023. Lancet Oncol. 27(3):302-326.

Syeda Briha Fatima , Mahnoor Mughal , Mazhar Badshah , Sara Mumtaz , Sajid Malik .Burden of Neurological Disorders in Resource-Limited Settings: Lessons from Pakistan for Global Neurology.Yale J Biol Med. 31;99(1):177-191.

Vong KI, Lee S, Au KS, ….., Azam M, Mumtaz S, Bot GM, …….Deng M, Glass IA, Morrow B, McDonald-McGinn DM, Sanna-Cherchi S, Lamb DJ, Gleeson JG.Science. 2024.Risk of meningomyelocele mediated by the common 22q11.2 deletion. Science. 3;384(6695):584-590.

Ha YJ, Nisal A, …… Finnell RH, Le JT, Meltzer HS, Araujo C, Machado HR, Stevenson RE, Yurrita A, Mumtaz S, Ahmed A,…….. HY, Miller WT, Tolias KF, Wallingford JB; Spina Bifida Sequencing Consortium; Kim S, Gleeson JG.The contribution of de novo coding mutations to meningomyelocele. Nature; 641(8062):419-426.

Mehreen M, Ali M, Tariq H, Noor A, Mumtaz S, Zafar S. 2025 Chenodeoxycholic Acid-Mediated neuroprotection via α-synuclein and BDNF Modulation in MPTP-Induced mouse model of Parkinson's disease.Neuroscience. 2025 7;573:442-450.

Awards/Achievements/Grants:

A member of Spina bifida sequencing consortium, USA. And a total of 55000$ granted in this consortium for molecular diagnosis of Spina bifida Pakistani samples. An ongoing project.

Identification and analysis of patients with ataxia, Huntington’s disease and repeat expansion disorders in children and adults with neurological disorders.Medical Research Council , UK. Ongoing as Co-PI from Pakistan

Molecular genetics of rare disorders In Pakistani Population. 2.5 million was granted from 3 billion, Korea. This project is completed