



## Dr. Aysha Karim Kiani

Assistant Professor

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### Profile:

Dr. Aysha Karim Kiani is a distinguished Assistant Professor at the National University of Medical Sciences (NUMS) with over five years of academic experience, marked by a strong research-driven career in molecular genetics and translational biomedical sciences. Her current research is centered on neurodevelopmental disorders, particularly Autism, with a focus on epigenetic analysis to understand gene–environment interactions and regulatory mechanisms underlying disease pathogenesis. In addition to her primary focus, her research portfolio spans autoimmune disorders, diabetes, nutrigenomics and pharmacogenomics, reflecting a multidisciplinary approach to complex human diseases. She has contributed to research on genetic polymorphisms and disease susceptibility, and published 41 international publications in well reputed journals. She is actively engaged in developing innovative research projects in emerging areas such as neurodevelopmental and genetic disorders. She has established a strong network of national and international collaborations, working with leading research groups and institutions to advance multidisciplinary studies in molecular genetics and disease biology.

### Research Interest:

Neurodevelopmental Disorders, Human Genetic Disorders, Autoimmune Diseases, Immunogenetics, Precision Medicine, Pharmacogenomics, Epigenetics.

### Selected Publications:

**Kiani AK**, Pheby D, Henehan G, Brown R, Sieving P, Sykora P, Marks R, Falsini B, Capodicasa N, Miertus S, Lorusso L, Dondossola D, Tartaglia GM, Ergoren MC, Dundar M, Michelini S, Malacarne D, Bonetti G, Donato K, Medori MC, Beccari T, Samaja M, Connelly ST, Martin D, Morresi A, Bacu A, Herbst KL, Kapustin M, Stuppia L, Lumer L, Farronato G, Bertelli M. 2022. Methodology for clinical research. *Journal of Preventive Medicine and Hygiene*, 63 (Suppl 3): E267-E278.

Chiurazzi P, **Kiani AK**, Miertus J, Paolacci S, Barati S, Elena E, Stuppia L, Gurrieri F, Bertelli M. 2020. Genetic analysis of intellectual disability and autism. *Acta Biomed.* 91(13-S): p. e2020003

Mehmood A, Naseer S, Ali A, Fatimah H, Rehman S, **Kiani AK**. 2020. Identification of novel vaccine candidates against carbapenem resistant *Klebsiella pneumoniae*: A systematic reverse proteomic approach. *Computational Biology and Chemistry*, 89: p. 107380.

**Kiani AK**, John P, Bhatti A, Zia A, Shahid G, Akhtar P, Wang X, Demirci FY, Kamboh MI. 2015. Association of 32 type 1 diabetes risk loci in Pakistani patients. *Diabetes Research and Clinical Practice*, 108(1):137-42.

**Kiani AK**, Jahangir S, John P, Bhatti A, Zia A, Wang X, Demirci FY, Kamboh MI. 2015. Genetic link of type 1 diabetes susceptibility loci with Rheumatoid arthritis in Pakistani patients. *Immunogenetics*, 67(5):277-82.

**Grants/Awards/Achievements:**

Institutional Research Grant, title "Identification of Coding variants in Autism Spectrum Disorder through whole exome sequencing in a Pakistani cohort". (Role: PI, Funding Body: NUMS, Status: In progress)

HEC Indigenous Scholarship for PhD

International Research Support Initiative Program (IRSIP) Scholarship, Higher Education Commission (HEC), Pakistan.