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Associate Professor
Biological Sciences

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Specialization
Human Genetics

Education
PhD Biology (2005-2009), Quaid-i-Azam University, Islamabad, Pakistan
MPhil Biochemistry/Molecular Biology (2002-2004), Quaid-i-Azam University, Islamabad, Pakistan
MSc Biology (Biochemistry/Molecular Biology) (2000-2002), Quaid-i-Azam University, Islamabad, Pakistan
BSc (Zool., Bot., Chem.) (1997-1999), Government College University, Lahore, Pakistan

Experience
Associate Professor- NUMS (June 2018 to date)
Assistant Professor- NUST (April 2014 to June 2018)
Assistant Professor- STMU/SCM (June 2011 to April 2014)
Assistant Professor- UHS (June 2010 to June 2011)

Research Interests
Genetic disease, Neurogenetic disorders, gene mapping, genetic testing and counseling

Publications

1. Novel candidate genes and variants underlying autosomal recessive neurodevelopmental disorders with intellectual disability (2018). Santos-Cortez RLP, Khan V, Khan FS, Mughal ZU, Chakchouk I, Lee K, Rasheed M, Hamza R, Acharya A, Ullah E, Saqib MAN, Abbe I, Ali G, **Hassan MJ**, Khan S, Azeem Z, Ullah I, Bamshad MJ, Nickerson DA, Schrauwen I,

Ahmad W, Ansar M, Leal SM- **Hum Genet. 137(9):735-752**

2. Novel duplication in *DYSF* gene causes Miyoshi Myopathy in a Pakistani family (2017). Ullah MI, Ahmad A, Žarković M, Shah SS, Nasir A, Mahmood S, Ahmad W, Hübner CA, **Hassan MJ**- **Saudi Med J. Dec;38(12):1190-1195**
3. Febrile ataxia and myokymia broaden the SPG26 hereditary spastic paraplegia phenotype (2017) Dad R, Walker S, Scherer SW, **Hassan MJ**, Alghamdi MD, Minassian BA, Alkhater RA- **Neurol-Genet. 23;3(3):e156.**
4. Hyperventilation-athetosis in *ASXL3* deficiency (Bainbridge-Ropers) syndrome (2017). Dad R, Walker S, Scherer SW, **Hassan MJ**, Kang SY, Minassian BA- **Neurol-Genet. 22;3(5):e189).**
5. Structural annotation of Beta-1,4-N-acetyl galactosaminyltransferase 1 (B4GALNT1) causing Hereditary Spastic Paraplegia 26 (2017) Dad R, Malik U, Javed A, Minassian BA, **Hassan MJ- Gene**. **S0378-1119(17)30387-6**
6. Clinical and genetic studies in patients with Lafora disease from Pakistan (2017) Ahmad A, Dad R, Ullah MI, Baig TA, Ahmad IN, Nasir A, Hubner, CA, **Hassan MJ**- **J Neurol Sci**, **373: 263-267.**
7. Biallelic truncating *SCN9A* mutation identified in four families with congenital insensitivity to pain from Pakistan (2016) Sawal HA, Harripaul R, Mikhailov A, Dad R, Ayub M, **Hassan MJ**, Vincent JB- **Clin Genet. 90(6):563-565.**
8. Autosomal-Recessive Hearing Impairment Due to Rare Missense Variants within S1PR2 (2016) Santos-Cortez RL, Faridi R, Rehman AU, Lee K, Ansar M, Wang X, Morell RJ, Isaacson R, Belyantseva IA, Dai H, Acharya A, Qaiser TA, Muhammad D, Ali RA, Shams S, **Hassan MJ,** Shahzad S, Raza SI, Bashir ZE, Smith JD, Nickerson DA, Bamshad MJ; University of Washington Center for Mendelian Genomics, Riazuddin S, Ahmad W, Friedman TB, Leal SM- **Am J Hum Genet. 4; 98(2):331-338.**
9. *In silico* analysis of SIGMAR1 variant (rs4879809) segregating in a consanguineous Pakistani family showing amyotrophic lateral sclerosis without frontotemporal lobar dementia (2015) Ullah MI, Ahmad A, Raza SI, Amar A, Ali A, Bhatti A, John P, Mohyuddin A, Ahmad W, **Hassan MJ- Neurogenetics. 16(4):299-306.**
10. Autosomal Recessive Primary Microcephaly: Autosomal Recessive

Primary Microcephaly (MCPH): Clinical Manifestations, Genetic Heterogeneity, and Mutation Continuum. Mahmood S, Ahmad W, **Hassan MJ**- **Orphanet Journal of Rare Diseases, 6: 39.**

11. *CtIP* mutations cause Seckel and Jawad syndromes **(2011)** Qvist P, Huertas P, Jimeno S, Nyegaard M, **Hassan MJ**, Børglum AD, Jackson S*P*- **PloS Genet, 7: 10-e 1002310.**
12. Mutations in *WDR62* gene in Pakistani families with autosomal recessive primary microcephaly (2011) Kousar R, **Hassan MJ**, Khan B, Basit S, Mahmood S, Mir A, Ahmad W, Ansar M- **BMC Neurol 11- 119.**