

Dr. Humayoon Shafique Satti

Associate Professor

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Profile

Dr. Humayoon Shafique Satti is an accomplished biochemist and molecular biologist with expertise in stem cell biology, hematology, immunogenetics, and translational genomics. He is also serving as an Honorary Research Consultant at the Armed Forces Bone Marrow Transplant Centre. Dr. Satti has over 15 years of experience spanning academic teaching, clinical research, with a strong focus on hematopoietic stem cell transplantation, mesenchymal stem cell therapy, and genetic disorders. He has received advanced international research training at renowned institutions including Queen Mary University of London, the University of Aberdeen (UK), Universitätsklinikum Tübingen (Germany), the University of Geneva (Switzerland), and major transplant research centers like CIBMTR and NMDP (USA). Dr. Satti has led and contributed to multiple nationally and internationally funded research projects and has an extensive publication record in high-impact journals. His research integrates next-generation sequencing, flow cytometry, stem cell culture, and functional genomics to improve diagnosis and therapeutic strategies.

Research Interest

Stem Cell Biology, Regenerative Medicine, Translational Genomics, Molecular Diagnostics

Selected Publications

Rehman, A., Malik, S. S., Sial, N., Khan, M., **Satti, H. S.**, Akhtar, A., & Iftikhar, R. (2025). The Effectiveness of Allogeneic Mesenchymal Stem Cells Therapy on Hair Regrowth in Androgenetic Alopecia: A Randomized, Double-Blind, Placebo Control Trial. *Journal of Haematology and Stem Cell Research*, 5(2), 165-172.

Sabir, S., Shahzad, M., Malik, U. I., **Satti, H. S.**, Iftikhar, R., & Sial, N. (2026). Effect of Mesenchymal Stem Cell Infusion in Stage II-IV Diabetic Nephropathy. *Journal of the College of Physicians and Surgeons--Pakistan: JCPSP*, 36(1), 31-37.

Shahid, F., Gul, H., Fareed, M. A., Ullah, F., **Satti, H.S.**, & Kaleem, M. (2025). Synthesis and characterization of a highly stable mucoadhesive gel for oral drug delivery. *Frontiers in Dental Medicine*, 6, 1696639.

Khan, T. N., Liu, C., Yap, K. L., **Satti, H. S.**, Khan, A., Safeer, M., ... & Davis, E. E. (2025). Genetic Investigation and Transcriptome Profiling in a Nuclear Family With Peutz–Jeghers Syndrome. *Human Mutation*, 2025(1), 5530710.

Naeem, W. B., Khan, M. A., Akram, Z., Afridi, T. U. K., Khattak, T. A., Khan, M. A., ... & **Satti, H. S.** (2025). Identification of a homozygous variant in ABCG5 by panel sequencing in a Pakistani family with sitosterolemia: Genotype-phenotype correlation and management considerations. *Journal of Clinical Lipidology*, 19(1), 156-161.

Awards/Achievements/Grants

Mesenchymal stem cells therapy in diabetic kidney disease. (Role: Co-PI, Sponsor NIH, Amount: Rs 4.8 Million) duration: 2022-2025 [COMPLETED]

Received a Travel Grant for ICBMT 2018, Republic of Korea (Korean Society for Blood and Marrow Transplantation), August 2018.

Received a Travel Grant for ISSCR 2017, USA (International Society for Stem Cell Research), June 2017.

Received 3rd Prize in the Free Papers Session at Haemcon 2015 (Pakistan Society of Haematology), February 2015.

Recipient of the International Research Support Initiative Program (IRSIP) Scholarship, Higher Education Commission (HEC), Pakistan, June 2013.