



Dr. Nisha Vats

Research Scientist

BRIEF PROFILE

She worked as a research fellow at Institute of Liver and Biliary Sciences. In her PhD research she used Genome editing tool -CRISPR-CAS-9 tool to correct ABCB11 gene. PFIC is liver diseases characterized by deposition of bile components due to defect in secreting digestive fluid causing liver toxicity .Mutations in the ABCB11, which encodes for the bile export pump is associated with the PFIC2.PFIC2 disease is usually treated by liver transplantation and it suffers from the scarcity of the organ donors, her thesis work explored the possibility of gene therapy to correct the defect in ABCB11 gene. She completed her PhD (Biotechnology) in 2021.

"Dr Nisha Vats joined Artemis hospital in 2022. Her research areas of interest are Stem cell therapy, Molecular biology and medical biotechnology. At Artemis Hospital, she aims to establish a stem cell laboratory with the focus on isolation of clinical grade Mesenchyme stem cells from human umbilical cord, which is considered a medical waste and proliferates rapidly in culture and the cells are thought to be immune privileged. Stem cell therapy, a rapidly evolving field within regenerative medicine, has shown promising results in treating various diseases and medical conditions. Long term goal of the lab is to understand the biology of stem cells and how these unique cells may be used in cellular therapies to improve clinical outcome in various diseases condition."

Contact Information

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