Dr. Abhishak C Gupta
(Ph.D, Biosciences)
Principal Research Scientist

BRIEF PROFILE

Dr. Gupta obtained his graduate (Ph.D) degree from the Jamia Millia Islamia & co-institutes G.B.Pant, Hospitals and Institute of Genomics and Integrative Biology (IGIB), Delhi, focused on Identification of differentially expressed proteins in non-alcoholic fatty liver disease (NAFLD) - Proteomic and Genomic approaches to understand disease pathogenesis and progression. Dr. Gupta has over 12 years of postdoctoral Fellow working at many reputed research institutions including INSERM, Paris (France), Cincinnati University (USA) and ILBS (India). In INSERM, he used MAGL knockout mice to address: 1) monoacylglycerol lipase (MAGL) as a novel immunometabolic target in alcoholic\ non-alcoholic fatty liver disease. 2) Development and characterization of MAGL- and ATG5-deficient T cell-specific knockout mice. 3) A profibrotic role of mucosa-associated invariant T cells in liver disease.

In Cincinnati, he studied the pathophysiology of steatohepatitis progression in augmented liver regeneration (ALR), a knockout mouse model for liver disease. Before joining to Artemis hospitals, Dr. Gupta also worked in ILBS on a) The DBT funded project based on early prediction of interferon response in her hepatitis C virus-infected patients using pharmacogenomics tools. b) The proteomic profile of patients with severe liver disease upon albumin transfusion in liver regeneration, and the role of cannabinoid receptors in liver disease. He is trained at IIT, Delhi in the research focused on 3D bioprinting of full-length skin, aging skin, in-vitro 3D models of human skin and hair follicle regeneration, liver scaffolds and their applications in the biomedical field.

RESEARCH AREA:

• Liver Diseases (Hepatitis B, C, Alcoholic and Nonalcoholic Fatty Liver Disease (NAFLD).
• Tissue Engineering.
• 3D in-vitro models such as Hair follicle, Skin and NASH.
• Flowcytometry based Immunophenotyping: The Flow cytometry facility at Artemis will provide state of the art facility for the analysis of Cytokines, chemokines, co-stimulation, Immunophenotyping, and apoptosis which might contribute to an expanded diagnostic spectrum of disease states.
• Proteomics/Metabolomic based diagnostic test.

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