Postdoctoral Associate / Research Associate position in Cardiovascular Disease and Inflammation

Dr. Totary Jain Laboratory
Department of Molecular Pharmacology and Physiology
Morsani college of Medicine,
University of South Florida, Tampa, FL

Lab description:
Dr. Totary-Jain’s laboratory is focused on the role of non-coding RNA in vascular physiology and pathology, including atherosclerosis, vascular malformations and during placental development. We use a wide range of approaches including basic molecular biology and gene editing to gain insights into the physiology of the blood vessel wall. The main goal of our research is to develop, a first of its kind, cell-selective nanotherapies to inhibit infiltration of inflammatory cells and proliferation of vascular smooth muscle cells to halt and reverse atherosclerotic plaque formation and also to inhibit neointimal hyperplasia following angioplasty, while protecting endothelial cells that provide crucial guard against lipid uptake, inflammation and thrombosis. Dr. Totary-Jain’s laboratory utilizes state-of-the-art microRNA-switches platform delivered using a cell-penetrating peptide that self-assembles nanoparticle. Dr. Totary-Jain’s laboratory also investigate the role of LIN28B/let-7 switch and mir-498(46) cistron in the pathogenesis of preeclampsia and vessel malformations.

The candidates should hold a PhD degree within biology, cellular, molecular biology, biochemistry, immunology and/or physiology. Experience with cell culture, basic biochemical techniques, immunocytochemistry or immunological technology is essential. Experience with animal study is an advantage.

Candidates will work under the supervision of the lab PI and will have ample opportunities to acquire and develop new skills and benefit from the stimulating research environment. State-of-the-art facilities are available within an exceptional research setting. Critical competencies include integrity, resourcefulness/initiative, good team player, enthusiasm & passion, decision making, and ability to acquire understanding and absorb information rapidly. Successful candidates must be able to generate new and creative approaches to problems and strong writing skills.

The appointment is renewable, and salary will be commensurate with experience. Please send your cover letter, CV and a list of two references to: Hana Totary-Jain, Ph.D. (e-mail: totaryjainh@usf.edu). Associate Professor, Molecular Pharmacology and Physiology, University of South Florida.