Postdoctoral Fellow – Systemic Autoimmunity

Department of Medicine/Rheumatology, University of Massachusetts Medical School

Responsibilities:

Design and carry out experiments to explore one or more of the following: explore the molecular mechanisms through which TLR9 negatively regulates T cell activation in murine models of systemic autoimmunity; compare gene expression profiles of skin-associated immune cells from cutaneous lupus patients and our murine model of cutaneous lupus (Mande P, et al., 2018, JCI) by both flow cytometry and single cell RNAseq; and characterize the immune defects of mice that express a gain-of-function (SAVI) mutation. These projects include collaborations with Drs. John Harris and Kate Fitzgerald.

Expectations also include preparation of oral presentations for program/department research in progress meetings, submission of abstracts for poster and oral presentations at national/international meetings, and oversight of technician and/or student working on related projects.

Requirements:

PhD in Immunology, Cell Biology, Molecular Biology or related discipline.

Working knowledge of cellular immunology, B and T cell development, and innate immune pathways.

Hands-on laboratory experience in relevant methodologies, trouble-shooting technical problems, and data analysis skills are required.

Experience in the following techniques preferred: handling/injecting/genotyping mice, preparation of lymphoid and dermal/epidermal tissues for histology, isolation and cell culture of lymphocyte populations, multicolor flow cytometry, DNA/RNA purification and quantification, qPCR, enzyme-based immunoassays, and immunofluorescent/confocal microscopy, database comparisons.

Outstanding organizational and time management skills, as well as the ability to work both independently and as part of a team in a fast-paced environment.

University of Massachusetts Medical Center:

Find out more about the UMMS research community at [http://www.umassmed.edu/research-home/](http://www.umassmed.edu/research-home/)

The position includes opportunities for project and career development, interaction with a diverse, talented and collegial immunology community at UMMS.

UMass Medical Center is an equal opportunity employer.

To apply for this position:

Send your CV and the contact information for three references to ann.rothstein@umassmed.edu