Principal Investigator:

Andrea Sant, PhD
Professor of Microbiology and Immunology
Center for Vaccine Biology and Immunology
University of Rochester Medical Center

Project Area

Influenza specific immunity

We are looking for a highly motivated, dedicated, and team-oriented postdoctoral fellow who shares our passion for basic and translational science and who seeks to make meaningful contributions to our understanding of the influenza immunology through the analyses of mouse models of vaccination or analyses of human immune responses to influenza vaccination and infection using a variety of experimental approaches.

Project details

CD4 T cells play a critical role in immunity to influenza. They are essential for the production of high affinity neutralizing and protective antibodies to vaccination and provide a multitude of diverse functions during infection, including direct cytotoxicity and production of anti-viral cytokines. A major challenge to our understanding of human immunity to influenza is successful dissection of the key functional subsets of CD4 T cells, distinguished by their viral antigen specificity, transcriptional program, and expression of cell surface markers. With advances in our knowledge of these subsets, more effective vaccine strategies can be developed that enhance the needed function within the human host.

Position details

This position is for up to 3 years and is funded by multiple grants from the National Institutes of Health and other sources. Work will be carried out in the Sant Laboratory in the Center for Vaccine Biology and Immunology (CVBI). The outstanding faculty, staff and trainees in the CVBI foster a highly interactive and collaborative training experience that provides the

setting for innovative immunology research for postdoctoral fellows who seek to further their research careers in immunology.

Qualifications

The strongest candidates will have the following characteristics:

- MD or PhD in Immunology or related field
- Meaningful experience in immunology
- Experience in flow cytometry, gene expression analyses and antibody-based assays
- One or more first author publication in a peer-reviewed journal
- A strong work ethic with a high level of self-motivation, intellectual engagement and the ability to work effectively both independently and within a team
- Ability and interest in working in a collegial laboratory environment
- Experience in molecular biology and protein biochemistry
- Strong oral and written communication skills
- Experience working with mice and with tissue culture techniques

To Apply

Email pdf of cover letter and current CV to: Andrea_Sant@urmc.rochester.edu