

POSTDOCTORAL FELLOWSHIP POSITION

Division of Stem Cell Transplantation and Regenerative Medicine

Posted Date: May 2015

Job Type: Postdoctoral Fellow Position

Job Location: Weinberg Lab, Lorry I. Lokey Stem Cell Research Building,
Stanford University

The Weinberg Lab has an opening for a highly creative and motivated postdoctoral fellow with an interest in development of functional immunity. Successful candidates will join the Pediatric Division of Stem Cell Transplantation and Regenerative Medicine at Stanford University School of Medicine.

Our group aims to integrate cellular and molecular studies of postnatal immune reconstitution in hematopoietic stem cell transplant recipients and the aged. We are interested in understanding the pathways involved by which T-cell development is impaired and developing cytokine, cell and gene therapies to overcome these defects in order to provide functional immunity for transplant recipients and the aged. Studies on lymphocyte progenitors will be undertaken in order to develop novel cell therapies for the treatment of viral infections occurring in patients with acquired and primary immune deficiencies.

Our lab employs: experimental hematopoietic stem cell transplantation, tissue culture, functional in vitro T cell assays, flow cytometry and CyTOF, transcriptome and immunoreceptor sequence analyses, in vivo mouse and chimeric mouse models. The project will focus on:

- 1) Development of antiviral effector T lymphocytes in recipients of hematopoietic stem cell and solid organ transplants;
- 2) Isolation and clonal analyses of virus-specific effector T-cells;
- 3) The optimization of effector T cell isolation/expansion for clinical use in hematopoietic stem cell and solid organ transplantation.

Requirements:

The applicant must be PhD (immunology, cell biology or molecular biology) or MD/PhD graduate with:

- Strong publication record in peer-reviewed journals in at least one of the following areas: immunology, transplantation, microbiology and infectious diseases, immunodeficiencies, stem cell biology, gene transfer.
- Outstanding personal initiative and communication skills.
- Excellent molecular and cell biology skills with a strong background in immunology.

Candidates with experience in flow cytometry and human sample handling are encouraged to apply.

Candidates should email an updated CV, complete contact information for three references and a cover letter describing their past research experience, career goals and a statement of future research interest (1-2 pages) to Rika Bosmans at <rbosmans@stanford.edu>