

Full Job Description

Research Technologist

GENERAL SUMMARY/ OVERVIEW STATEMENT:

A position is open for a full-time technician within the Allen Laboratory at the Ragon Institute of MGH, MIT, and Harvard located in Kendall Square in Cambridge, MA (<http://www.ragoninstitute.org/portfolio-item/allen-lab/>). The candidate will assist in research developing novel approaches to eradicate HIV reservoirs towards establishing a functional cure for HIV.

This position will focus on utilizing gene-editing approaches (such as CRISPR-Cas9 of CCR5) to protect human CD4+ T cells and stem cells from HIV infection, as well as improving the potency of HIV-specific chimeric antigen receptor T (CAR T) cells to target and eradicate HIV reservoirs. These studies will be conducted using humanized mice (BLT and HSC+ models) and will involve both cellular and molecular bench work including but not limited to the following:

PRINCIPAL DUTIES AND RESPONSIBILITIES:

- Cell/tissue processing and maintenance, viral propagation and titering
- Flow cytometry, immunohistochemistry staining and microscopy analysis
- Perform molecular analysis of HIV utilizing standard techniques (DNA and RNA extraction, PCR amplification, cloning)
- Next-generation sequencing (NGS) of HIV and data analysis/interpretation
- Utilize the CRISPR/Cas9 system to genetically modify human CD4+ and hematopoietic stem cells
- Perform limited monitoring, blood draws, and injections of immunodeficient mice
- Ensures quality control of equipment, reagents and cellular components
- Performs maintenance, inventory, cleaning, and organizational tasks for the laboratory
- Work in both BSL1 and BSL2+ environments
- Detailed documentation of experimental work
- Assists in project coordination of multiple cohorts
- Attend and participate in weekly lab meetings and scientific discussions, present data
- Organize and summarize acquired data, using scientific and statistical techniques.
- Organize and/or draft material for the preparation of research papers, manuscripts and other documents for publication and/or presentation.
- Participate in the design of experiments

SKILLS/ABILITIES/COMPETENCIES REQUIRED:

- Should have good interpersonal skills
- Ability to work independently and as a team member

- Must communicate regularly and effectively with team members and supervisor
- Ability to perform multiple tasks independently
- Demonstrate honesty, integrity and reliability
- Must have a positive attitude and willingness to learn and grow

EDUCATION

Bachelor's degree required, Master's degree preferred

EXPERIENCE

3+ years experience in directly related field required

SUPERVISORY RESPONSIBILITY (if applicable):

A Research Technologist may serve as a team leader to Research Technician II and Research Technician I.

EEO Statement

Massachusetts General Hospital is an Equal Opportunity Employer. By embracing diverse skills, perspectives and ideas, we choose to lead. Applications from protected veterans and individuals with disabilities are strongly encouraged.

Primary Location MA-Cambridge-MGH 400 Technology

Work Locations MGH 400 Technology 400 Technology Square Cambridge 02139

Job Technician/Technologist/Scientist

Organization Massachusetts General Hospital(MGH)

Schedule Full-time

Standard Hours 40

Shift Day Job

Employee Status Regular

Recruiting Department Ragon Institute

Job Posting