

Careers at RFCUNY Job Openings

Job Title Research Associate

PVN ID LE-1710-002116

Category Research

Location LEHMAN COLLEGE

DepartmentChemistryStatusFull Time

Salary Depends on qualifications

Hour(s) a Week 35

Closing Date Dec 03, 2017 (Or Until Filled)

General Description

ity University of New York, Lehman College, Bronx NY

The Mallikaratchy laboratory is a chemical biology and molecular targeting lab that applies multiple disciplinary approaches inclusive of SELEX technologies, bioinformatics, molecular and cell biology, and translational studies in collaboration with investigators at Memorial Sloan Kettering Cancer Center to discover novel functional nucleic acid ligands capable of modulating key interactions pertaining to the immune system.

Position Summary The individual will be working on selection of aptamers using Ligand Guided Selection to identify specific aptamers against extracellular targets expressed in B-cell lymphoma and T cells. Candidates preferred to have a PhD degree. Preference will be given to those with an outstanding publication record in aptamer research, nucleic acid ligand receptor interactions and those with established experimental skills in SELEX and/or handling of nucleic acid ligand binding analysis. Candidates with additional expertise on molecular biology (radioactive labeling of nucleic acids, PCR, RT-PCR and purification of nucleic acids using standard techniques) and bioinformatic tools aimed at analyzing NGS data are especially encouraged to apply. The individual will receive multidisciplinary training on Ligand Guided Selection technology developed in Mallikaratchy lab, develop new research technologies aimed at selectively identifying nucleic acid ligands against key receptors in primary B and T cells, and design of molecular scaffolds using nucleic acid aptamers. The research topics include development panel of aptamers against CD markers expressed in human B-cell lymphoma and T cells utilizing cultured cells and primary cells, validation of aptamers using appropriate assays, proteomic analysis of aptamer-receptor interactions.

This individual will participate in planning experiments; assisting in preparing research protocols pertinent to SELEX using DNA or RNA or modified RNA libraries, maintaining and operating laboratory equipment including, but not limited to, HPLC, and Flow cytometer, UV/Visible spectrometer, Fluorescence spectrometer etc. In addition, this individual will expected to collect, verify, record and compile data; perform calculations and prepare graphs and reports, maintain records of lab procedures and results, assist students in the performance of laboratory and investigative research procedures. Collaborates with lab members on different projects; contributes to the organization of the lab by providing support for various aspects of experimental research.

Preferred Experimental Skills The candidate is required to have a PhD in Chemical Biology/Biochemistry, Molecular Biology. Essential skills include experience with basic molecular and cellular biology techniques including: isolation of cells from PBMC, maintenance of mammalian cell culture, PCR, Gel Electrophoresis, Flow cytometric analysis of cells, familiarity with bioinformatics, analysis of data obtained from next-gen sequencing. Establish, monitor, and characterize cell lines in vitro, prepare samples for flow cytometric assays.

Skills and Abilities

Demonstrated ability to manage multiple priorities efficiently and diplomatically in a high-pressure environment. Demonstrated organizational skills and ability to pay close attention to detail. Familiarity with synthesis planning and execution, characterization, and purification. Ability to safely handle and dispose hazardous chemicals and waste. Use of relevant software such as ChemDraw and MNova, basic statistics software, and data analysis, handle JPEG, MPEG and TIF files; familiarity with creating charts and graphs with statistical renderings to report results. Excellent written and verbal communication skills as well as strong organizational skills. Highly organized, self-motivated, and work well in a team environment.

For consideration please email CV and names of three references.

Job Type: Full-time

Preffered education:

Doctorate

Preffered experience:

research: 5 years

Other Duties

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