

Synthesis of Chemically Modified Peptides for the Validation of an Accelerated Ligand Discovery Platform /Development and Optimization of a Database from Deep-Sequencing Datasets

PROJECT DESCRIPTION

Project 1:

The objective of this project is to synthesize chemically modified peptides identified from genetically-encoded fragment based discovery unique to the Derda Research Group. The synthesized peptides will be used to evaluate the discovery platform, streamline the discovery process, and improve the reproducibility of discovery.

Project 2:

The objective of this project is to: 1) develop a relational database on a SQL platform, and 2) optimize the database in order to manage large computational data-sets generated from the Derda Research Group. The project includes integrating the database with our current MATLAB scripts."

FACULTY-DEPARTMENT

Science - Chemistry

DESIRED FIELD OF (STUDENT) STUDY

For position 1: strong organic synthesis background (preferably in peptide chemistry)

For position 2: strong computing science background (strength in programming and script writing)

INTERNSHIP LOCATION

University of Alberta Main Campus - Edmonton

NUMBER OF INTERNSHIP POSITIONS

2

Contact: Brendan Cavanagh, Internship Coordinator (Inbound)
University of Alberta International
intern@ualberta.ca

INTERNSHIP START DATE

July 3, 2018

INTERNSHIP END DATE

3 months after start date

ARE THE DATES FLEXIBLE?

Yes, I am flexible regarding the internship dates. Selected students can contact me to request a date change.