

**North Campus Internship Course – Summer 2009-3  
On Campus Research Opportunity for Biotechnology Students**

**Genome Sequencing**  
**Dr. Valentine Negrouk**  
**BSC-2943L**  
**BioScience Internship (Ref#567108)**  
**North Campus**

The objective of this research project is to complete the sequencing of the fava bean mitochondrial genome. Suggested size of the genome is about 400,000bp.

In this internship, students will learn how to:

1. construct recombinant DNA libraries,
2. isolate and characterize plasmid DNAs,
3. conduct PCR-based sequencing reactions,
4. analyze generated sequencing data using different computer programs,
5. construct long (several dozen thousand base pairs) sequences, and analyze these sequences using appropriate scientific literature.

**IF YOU ARE INTERESTED IN ENROLLING IN THIS COURSE,  
CONTACT PROFESSOR Valentine Negrouk  
(305) 237-1575 OR [vnegrouk@mdc.edu](mailto:vnegrouk@mdc.edu)**