

MCB 290 Undergraduate Research Position – Newmark Lab

Posted: Monday, Feb. 22, 2010

Position available for a **Freshman or Sophomore** researcher interested in the fields of **Developmental Biology, Molecular Biology, Biochemistry and Genetics in the lab of Dr. Phillip Newmark, Cell and Developmental Biology.**

This is an opportunity for a highly motivated individual to be trained as a scientist during the remainder of their undergraduate tenure. Individual will be trained in multiple laboratory techniques required for performing scientific research in a number of fields. Initially, the student will aid in an on-going project focused on the role of a number of RNA-binding proteins in stem cell function, but will eventually be in charge of a scientific project focused on the role of a molecular chaperone in organ formation during planarian regeneration.

Primary responsibilities:

- Review project background and status with mentor.
- Become proficient in basic microbiology, biochemical and molecular techniques required for carrying out research.
- Design and conduct experiments, with mentor's guidance, for advancement of the project.
- Collect and interpret data.
- Draw sound scientific conclusions based on data analysis. The results of these studies, and the conclusions generated, will impact research plans and advancement decisions on the experimental materials.
- Prepare monthly lab reports and presentation of results at end of each semester and summer.
- Participation in weekly lab meetings and annual research symposiums.
- **Completion of Undergraduate Thesis to graduate with distinction.**

Qualifications:

- Major in Biology Undeclared, Molecular and Cellular Biology, Biochemistry, or other appropriate science curriculum.
- Minimum overall GPA of 3.0.
- Computer database and word processing skills at minimum.
- Good interpersonal, communication, organizational, teamwork, and time management skills.
- Available minimum of 10 hours/week during academic year, minimum 20 hours/week during summer.
- **Must be willing to commit to this project for a period of two or more years (including summers).**

This position fulfills the requirements for MCB290 Undergraduate Research credit. Funding opportunities for summer research and other federal programs are available. We strongly encourage members of minority groups underrepresented in the sciences to apply.

If you have any questions about the position, or to request an application form, please contact:

Claudia Washburn

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Note: Only applicants who communicate their interest directly to C. Washburn will be considered for this position.