

# Undergraduate Internships in High-Throughput Genetic Analysis

## University of Kentucky Advanced Genetic Technologies Center (AGTC)

### Purpose:

Two internships are available during the 2004-2005 academic year. These internships are for Undergraduate students to participate in high-throughput DNA sequencing or other high-throughput genetic analysis. The students will learn the principles of DNA analysis, utilization of robots in a molecular genetics lab, computer- and web-based Laboratory Information Management Systems (LIMS), and interpretation and analysis of DNA sequence and genetic data.

### Application:

**Step 1:** Consult with a potential faculty research advisor or mentor to identify an appropriate project. The project should be conducted primarily in AGTC, and involve the tools and facilities described under "Purpose," above. The faculty mentor must be a member of the College of Agriculture.

**Step 2:** Participate with faculty mentor to write a proposal (maximum: 3-pages in 12-point font). Include a Title, names and signatures of the Student and the Mentor, an Introduction to explain, briefly, the question being addressed; an Experimental Plan describing the rationale, strategy, methods, materials and timeline; and References.

**Step 3:** Fill out an Application Form.

**Step 4:** Submit the (i) Proposal, (ii) completed Application, and (iii) most current Academic Transcript to Dr. Christopher L. Schardl (address below) on or before October 15, 2004.

**Step 5:** If the proposal is approved, a letter of approval will be sent by October 31, 2004. To accept the internship, sign a copy of the letter and return it to Dr. Schardl by November 15, 2004. Also, on or before that date each awardee must make arrangements with Ms. Barbara Coughlin, 201D Plant Science Building to be entered into the payroll system.

### Awards and obligations:

AGTC internship awardees will be paid \$10.00 per hour during the Fall 2004 and Spring 2005 semesters. As part of their paid obligations, the awardees will meet for one hour each week with Dr. Schardl and the faculty mentors. The awardees will be required to write a brief (one-page minimum) summary of learning and research accomplishments, to be submitted to Dr. Schardl by the end of the Spring 2005 finals week.

Dr. Christopher L. Schardl  
Director, Advanced Genetic Technologies Center  
201F Plant Science Bldg.  
University of Kentucky  
CAMPUS 0312\*

(\*From off campus, address the application to: Dr. Christopher L. Schardl, 201F PSB, 1405 Veterans Dr., Lexington, KY 40546-0312)

For more information, contact Dr. Schardl at:

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