

**Department of Biological Sciences  
MCMICKEN COLLEGE OF ARTS AND SCIENCES**

**SUMMER RESEARCH OPPORTUNITIES  
FOR UNDERGRADUATE WOMEN**

**APPLICATION DEADLINE: March 1, 2006**

*The Department of Biological Sciences is pleased to offer the following research project for the summer of 2006. Interested students are urged to contact the faculty member(s) directing the project that most interests them. By contacting the faculty member, you can discover more about the project, learn what your responsibilities will be and if possible, develop a timetable for the twelve-week research period.*

**Molecular Genetics of Speciation in Darwin's Finches**

**Professor Ken Petren, PhD  
Department of Biological Sciences  
802 Rieveschl Hall  
Cincinnati, OH 45221-0006  
Tel. (513) 556-9719  
Fax. (513) 556-5299  
Email: [ken.petren@uc.edu](mailto:ken.petren@uc.edu)**

The Petren lab has available projects that involve the use of molecular genetic techniques to study divergence and speciation in Darwin's finches. Students will learn a variety of techniques including PCR, electrophoresis and analyses of molecular genetic data. The lab works with a variety of molecular markers including DNA sequences, microsatellites, SNP's and AFLP's. We investigate question related to phylogeography, landscape genetics, speciation, adaptive radiation, migration, dispersal, hybridization and demography in the context of conservation.