

**DEPARTMENT OF BIOLOGICAL SCIENCES
COLLEGE OF ARTS AND SCIENCES**

**SUMMER RESEARCH OPPORTUNITIES
FOR UNDERGRADUATE WOMEN**

APPLICATION DEADLINE: MARCH 1, 2004

The Department of Biological Sciences is pleased to offer the following research project(s) for the summer of 2004. 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.

The Effects of Habitat Fragmentation in the Yellow Violet, *Viola Pubescens*

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Plant reproductive biology can be studied using a combination of ecological and genetic approaches. Interested students will have the opportunity to assist in a project on the effects of habitat fragmentation in the yellow violet, *Viola pubescens*. Past work on this species in an agricultural landscape indicates that populations in small forest fragments have fewer insect pollinators and less genetic diversity than populations located in larger habitats. Presumably, these effects will be compounded in urban areas because of increased isolation of populations and detrimental human impacts. This research will yield important information not only for preservation of the yellow violet, but also for the conservation of rare plant species in southern Ohio. Participation in this project will involve either fieldwork (monitoring local violet populations, pollinators, etc.) or lab work (learning a molecular genetic technique such as isozymes, ISSRs, and microsatellites). Familiarity with basic genetic principles is desired, but not necessarily required. More information on these and other projects is also available online at www.biology.uc.edu/faculty/culley/theresa.html.