

**DIVISION OF DEVELOPMENTAL BIOLOGY  
Cincinnati Children's Research Foundation**

**SUMMER RESEARCH OPPORTUNITIES  
FOR UNDERGRADUATE WOMEN**

**APPLICATION DEADLINE: MARCH 3, 2003**

*The Division of Developmental Biology is pleased to offer the following research project(s) for the summer of 2003. Interested students are urged to contact the faculty member(s) directing the project(s) that most interest 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.*

**Understand How Drugs Affect Brain Development**

**Professor Charles V. Vorhees**

**5007-A CH-TCHRF (513) 636-8622 FAX: (513) 636-3912**

**E-Mail: [charles.vorhees@cchmc.org](mailto:charles.vorhees@cchmc.org)**

To work on a project to determine the prenatal effects of methamphetamine on offspring development and later behavior. The project will involve treating and testing pregnant laboratory rats with methamphetamine during a defined period of embryonic development by administering the drug to the mother and evaluating the offspring for a variety of functions with emphasis on measures of spatial learning and memory.

**The Effects of the PDE1B Knockout on Responses to Drugs**

**Professor Charles V. Vorhees**

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To work on the effects of dopaminergic antagonists (drugs that block dopamine receptors) in the PDE1B knockout mice compared to control mice on locomotor behavior to determine if the knockout mice have altered responses to drugs known to be associated with antipsychotic therapeutic effects.