

**DEPARTMENT OF PEDIATRICS
Medical Center**

**SUMMER RESEARCH OPPORTUNITIES
FOR UNDERGRADUATE WOMEN**

APPLICATION DEADLINE: MARCH 1, 2004

The Department of Pediatrics 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.

Determining the Prenatal Effects of Methamphetamine on Offspring Development and Later Behavior, the Effects of Dopaminergic Antagonists, and the Characterization of Responses to Atypical Antipsychotic Drugs

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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 rats with methamphetamine during a defined period of embryonic development by administered the drug to the mother and evaluating the offspring for a variety of functions with emphasis on measures of spatial learning and memory.

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.

To work on the NPAS knockout mouse to characterize its response to atypical antipsychotic drugs and to drugs that alter the GABA neurotransmitter system.