JUDITH C. BURDETT

Current Address
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33 Fairview Court
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EDUCATION

Cornell University, College of Arts and Sciences, Ithaca, NY
Bachelor of Arts in Psychology, Concentration in Biopsychology, May 2010

Honors

Candidate for Graduation with Honors, Dean's List, Psi Chi Honor Society

Relevant Courses

Genetics • Physiology • Biochemistry • Neurobiology • Evolutionary Biology
Organic Chemistry • Physics • Advanced Calculus • Statistics • Computer Science

RESEARCH EXPERIENCE

CORNELL UNIVERSITY, Ithaca, NY 2009-2010
Senior Honors Thesis, Psychology Department
Wrote paper on neurobiological and behavioral impacts of prenatal cocaine exposure. Investigated effects of cocaine on noradrenergic receptors within fetal pre-frontal cortex of the rat; studied long-term cognitive changes resulting from prenatal cocaine exposure. Designed and implemented experimental paradigm and analyzed results.

CORNELL UNIVERSITY, Ithaca, NY 2009-2010
Research Assistant, Psychology and Nutritional Science Departments
Determined neurobehavioral and cognitive deficits produced by childhood, low-level lead exposure. Researched efficacy of meso-2,3-dimercaptoscuccinic acid (DMSA) as a possible chelation agent.

NATIONAL INSTITUTES OF HEALTH, Bethesda, MD Summer 2009
Biological Aide, National Heart, Lung, and Blood Institute
Researched effects of high frequency, intratracheal pulmonary ventilation on subjects with acute respiratory distress syndrome. Performed surgical techniques and intensive care medicine on animal models (sheep). Assisted in evaluation, writing, and analysis of data using multivariate statistics.

TECHNICAL SKILLS

Laboratory: Maintaining and purifying cell and tissue cultures, plasmid amplification, media preparation, electrophoresis, IR spectrophotometry, chromatography, enzyme assays, radioimmunoassays, hemagglutination, and hemolysis assay

Animal care: Arterial and venous cannulation, endotracheal intubation, anesthetization, tracheotomy, emergency medical and surgical procedures, collection of blood samples, administration of injections, and animal autopsy

Lab instruments: Light microscope, centrifuges, precision balance, blood gas analyzer, X-ray equipment, electrocardiogram, CP-100 pulmonary monitor, Servo 900 ventilator, Gould strain gauge transducer, and oscilloscope

Computer: SAS, Microsoft Office Suite, Access

VOLUNTEER EXPERIENCE

HERBERT F. JOHNSON MUSEUM, Ithaca, NY 2009-2010
Docent
Participate in curation and provide tours of art exhibits designed for children.

AMERICAN RED CROSS, Ithaca, NY 2009-2010
First Aid, CPR, and Professional Rescue Instructor
Prepare and conduct class instruction on CPR and first-aid rescue techniques.

ACTIVITIES

Student Academic and Peer Advisor, Student Health Alliance Committee