

Friday, August 4, continued

- 3:00 **Ryan Malecky**
(Dr. Terry Collins) Catalytic Degradation of the Environmental Pollutant Bisphenol A Using Hydrogen Peroxide and an Fe^{III}-TAML Catalyst
- 3:15 **William Eimer**
(Dr. Jon Minden) Improvement of Difference Gel Electrophoresis for Potential Applications in Medicine
- 3:30 **Ashley Hurt**
(Dr. Alison Barth) The Behavioral and Molecular Effects of Peritoneal Paxiline Injections on Wild Type Black 6 Mice
- 3:45 **Joseph Michie**
(Dr. Alison Barth) Spatial and Temporal Neuronal Firing Patterns After *In Vivo* Experience in Fos-drFP583 Mutant E5 Transgenic Mice
- 4:00 **Christina Onorato**
(Dr. Justin Crowley) Development of Columnar Architecture in Visual Cortex: Seeking Accord Between Anatomical and Proteomic Level Data
- 4:15 **Daniel Smith**
(Dr. Justin Crowley) Optimization of *In Vivo* Two-Photon Laser Scanning Microscopy by Physiological Motion Compensation
- 4:30 **Closing Remarks by Dr. David Hackney**

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SURP Summer Undergraduate Research Program

2006 Symposium

Department of Biological Sciences
Carnegie Mellon University

Mellon Institute Conference Room
August 4, 2006



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8:45 a	Blake Sweeney (Dr. Russell Schwartz)	The Effects of Hierarchical Assembly Pathways on Capsid Formation
9:00	Benjamin Williams (Dr. Javier López)	Mechanisms of Recursive Splice Site Recognition in <i>Drosophila melanogaster</i>
9:15	Leslie Ann Alexis (Dr. Peter Berget)	The Role of Cysteine Residues in Single Chain Antibodies
9:30	Sarah Beckman (Dr. Peter Berget)	Effect of Mutations in Single Chain Variable Fragments on Interaction with Thiazole Orange Dye
9:45	Benjamin Blonder (Drs. William Brown & Alan Waggoner)	Expression of a Thiazole Orange Dye-binding ScFv in <i>E. coli</i>
10:00	Kimberly Parks (Dr. Lynne Reder)	Exploring the Other-Race Effect Using Face Pairs
10:15	Break	
10:30	Victoria Aveson (Dr. Tina Lee)	Identifying the Endoplasmic Reticulum Binding Site on Nucleoside Diphosphate Kinase B
10:45	Nicole Bournival (Dr. Tina Lee)	Investigating the Mechanism of NDKB-mediated Endoplasmic Reticulum Network Morphogenesis
11:00	Sarah Clark (Dr. Brooke McCartney)	Determination of Adenomatous Polyposis Coli 2 (APC2) Domain Function in Cytoskeletal Organization
11:15	Vilma Medrano (Dr. Brooke McCartney)	Adenomatous Polyposis Coli: Phenotypes of Mutant Alleles in Imaginal Discs and Its Role in the Activation of Wingless Signal Transduction Pathway

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11:30	Kathryn Caperna (Dr. Charles Etensohn)	Analysis of the Localization of the Dishevelled Protein in Embryonic Development of <i>Lytechinus variegatus</i>
11:45	Samantha Spath (Dr. Charles Etensohn)	Analysis of Wnt3 Function in Sea Urchin Embryogenesis
12:00p	Break	
1:00 p	Ashlan Musante (Dr. David Hackney)	Cloning and Characterization of the Interaction of Kinesin Non-motor Microtubule Binding Sites with Microtubules
1:15	Adam Trexler (Dr. David Hackney)	Green Fluorescent Protein as a Spectroscopic Probe for Head-Tail Interaction in Kinesin Heavy Chain
1:30	Yetunde Junaid (Dr. Bruce Armitage)	7-[(2-Aminoethyl)amino]-1-Methylquinolinium Iodide: A Fluorescent Dye that Absorbs Around 400 nm
1:45	Adam Suhy (Dr. Bruce Armitage)	Selection, Evolution and Characterization of Peptide Nucleic Acid Dependent Deoxyribozyme
2:00	Elizabeth Wiltout (Dr. Danith Ly)	Determination of the Cellular Uptake of Guanidinium Peptide Nucleic Acid
2:15	Stefanie Sydlik (Dr. Richard McCullough)	Regioregular Random Copolymers of Poly-3-alkylthiophenes and Polythiophene
2:30	Break	
2:45	Simon Hucko (Dr. Newell Washburn)	Analysis of Aptameric Structure and Binding to a Pro-Inflammatory Cytokine