



2001 Hauber Fellows

A Functional Analysis of *Dirofilaria immitis* Nuclear Receptor *dinhr-6* - a Possible Role in Molting

Hauber Fellow: Maureen Luschini
Faculty Mentor: Kirsten Crossgrove, Biology

Characterizing the *dnaE* Gene in *Caulobacter Crescentus*

Hauber Fellow: Ellie van der Schalie
Faculty Mentor: Neena Din, Biology

The Growth of *Arabidopsis lyrata* on Ant Mounds in a Serpentine Habitat

Hauber Fellow: Matthew Crowley
Faculty Mentor: Bernadette Roche, Biology

Bacterial Contamination of Various Shellfish Tissues in the Northern Quahog Clam

Hauber Fellow: Nicholas Bushar
Faculty Mentor: Andrew Schoeffield, Biology

Isolation of Novel Proteins Interacting with FtsZ in *Caulobacter Crescentus*

Hauber Fellow: April Rose
Faculty Mentor: Neena Din, Biology

Exploring the Structure and Function of the Membrane Protein Rhodopsin through Protein Engineering and NMR Spectroscopy

Hauber Fellow: Amy Sweigart
Faculty Mentor: Danielle Brabazon, Chemistry

Delving into the Structure of Rhodopsin, a Model for GPCR Interactions, through NMR Spectroscopy

Hauber Fellow: Timothy Chizmar
Faculty Mentor: Danielle Brabazon, Chemistry



Synthesis and Characterization of 4-Methyl-7-Thioumbelliferyl B-D-Cellotriase

Hauber Fellow: Lisa Bonner

Faculty Mentor: Brian Barr, Chemistry

Metabolism of Indole-3-Acetic Acid during Somatic Embryo Development

Hauber Fellow: Beverly Moulic

Faculty Mentor: Elaine Shea, Chemistry

Software and User Interface Design Using Parallel Processing and Gradient Descent Techniques for Registration and Remotely Sensed Imagery

Hauber Fellows: Rachel L. Knickmeyer & Jamie L. Smith

Faculty Mentor: Roger Eastman, Computer Science

Using Decomposition Slice Graphs as a Program Comprehension Tool: Preliminary Analysis and Observations

Hauber Fellow: Lucas M. Layman

Faculty Mentor: Keith Gallagher, Computer Science

Error Correcting Codes that are Extensions of the ISBM Code

Hauber Fellow: Aileen M. Cuddy

Faculty Mentor: George Mackiw, Mathematical Sciences

Surface Crystallography Using Low Energy Electron Diffraction

Hauber Fellow: Eric Krueger

Faculty Mentor: Greg Derry, Physics

Efficiently Finding Conserved Oligonucleotides within Multiple Related Sequences

Hauber Fellow: Scott Emrich

Faculty Mentors: Mary Lowe, Physics and Arthur Delcher