

3rd Annual FUTURE in Biomedicine Symposium

Friday, July 29, 2011

Kelch Conference Room
1289 Carver Biomedical Research Building
Roy J. and Lucille A. Carver College of Medicine, University of Iowa

- 1:00 pm** **Introductory Remarks** – Madeline A. Shea, Ph.D., Director
- 1:10 pm** **Maria Dean, Ph.D., Coe College, Cedar Rapids, IA** – Class of 2011
Transgenic Xenopus GFP Expression via Epidermal and Cement Gland Promoters
UI Host Faculty Member – Sheila Baker, Biochemistry
- 1:40 pm** **Joseph Nguyen, Ph.D., Mount Mercy University, Cedar Rapids, IA** – Class of 2011
Characterization of Essential Herpesvirus Assembly Interactions
UI Host Faculty Member – Richard Roller, Microbiology
- 2:10 pm** **Break**
- 2:15 pm** **Kristy McClellan, Ph.D., Buena Vista University, Storm Lake, IA** – Class of 2011
Identifying a Novel Role for Suppressor of Hairy-Wing in Neural Function
UI Host Faculty Member – Pamela Geyer, Biochemistry
- 2:45 pm** **Chinh Dao, Ph.D., Drake University, Des Moines, IA** – Class of 2010
ISG15: Ubiquitin-like Enigma
UI Host Faculty Member - Fred Quelle, Pharmacology

3:00 pm **Poster Presentations by Undergraduate Researchers and Alumni Fellows**
Refreshments will be served.

- 3:30 pm** **Stephanie Toering Peters, Ph.D., Wartburg College, Waverly, IA** – Class of 2011
A Locomotion Screen to Identify Genes Involved in Synaptic Homeostasis and Development
UI Host Faculty Member – C Andrew Frank, Anatomy and Cell Biology
- 4:00 pm** **Barbara Christie-Pope, Ph.D., Cornell College, Mt. Vernon, IA** – Class of 2011
Investigating Gene/Environment Interactions underlying Parkinson's Disease: the Potential Role of TRPM7 Channels
UI Host Faculty Member – Robert Cornell, Anatomy and Cell Biology
- 4:30 pm** **Gary Coombs, Ph.D., Waldorf College, Forest City, IA** – Class of 2011
Identifying Proteins that Interact with the Putative Tumor Suppressor NIAM
UI Host Faculty Member – Dawn Quelle, Pharmacology

Poster Presentations by Undergraduate Researchers

- Buena Vista – Caitlin Hof** and Kristy McClellan, Ph.D. (2011 Fellow), and Alexey Soshnev and Pam Geyer, Ph.D. (UI Biochemistry)
Does Loss of Suppressor of Hairy-0Wing Induce a Neural Phenotype in Drosophila?
- Coe – Katelyn Marshall** and Maria Dean, Ph.D. (2011 Fellow), and J Laird and Sheila Baker, Ph.D. (UI Biochemistry)
Evaluating Transgenic Xenopus as a Model System for the Expression of Secreted Proteins
- Cornell – Federica Ot'alora-Roselli** and Barbara Christie-Pope, Ph.D. (2011 Fellow), and Amanda Decker and Robert Cornell, Ph.D. (UI Anatomy and Cell Biology)
Trpm7 Ion Channel Regulates Locomotion: Forward Genetics Can Take You Somewhere Unexpected
- Mount Mercy – Molly First** and Joseph Nguyen, Ph.D. (2011 Fellow), and Richard Roller, Ph.D. (UI Microbiology)
Understanding Essential Herpesvirus Assembly Interactions
- Waldorf – Cody Barnes** and Gary Coombs, Ph.D. (2011 Fellow), and Sara Francis, Jussara Hagen and Dawn Quelle, Ph.D. (UI Pharmacology)
Analyses Of NIAM Expression In Glioblastoma Tumors
- Wartburg – Islam Qadous** and Stephanie Toering Peters, Ph.D. (2011 Fellow), and C. Andrew Frank, Ph.D. (UI Anatomy and Cell Biology)
Do Locomotion Defects Correlate with Synaptic Homeostasis Defects in Drosophila?

Poster Presentations by Alumni Fellows

- Drake University – Chinh Dao, Ph.D.** (Class of 2010), Daisuke Mayazumi, Randi L. Rumbold, and Frederick Quelle, Ph.D. (UI Pharmacology) *Receptor Ubiquitination and Localization Affect Erythropoietin Signaling*
- Drake University – Jerry Honts, Ph.D.** (2009 Fellow) and Madeline Shea, Ph.D. (UI Biochemistry) *Modular Organization of Membrane Skeletal Proteins in Tetrahymena*
- Loras College – David Speckhard, Ph.D.** (2009 Fellow)
The structural basis for Tiam-1 PDZ peptide recognition
- Morningside College – Rachel Robson, Ph.D.** (2010 Fellow; Dept of Biology) and Susan Burns, Ph.D. (Dept of Psychology) *Gain in Student Understanding of the Role of Random Variation in Evolution Following Teaching Intervention Based on Luria-Delbruck Experiment*
- St. Ambrose – Shannon Mackey, Ph.D.** (2009 Fellow) and Kristen Syring, Diane Cryderman, Dawn Quelle, Ph.D. (UI Pharmacology) and Lori Wallrath, Ph.D. (UI Biochemistry)
'Finding NIAM': A Drosophila homolog of a human tumor suppressor
- Wartburg College – Shawn Ellerbroek, Ph.D.** (Class of 2010), Anastasia Lundt, Meghan Henningsen, Nicole Gardner, Geoff Miller, Emily Heying, Janean Farley, Yueying Liu, and Sharon Stack *LPA Stimulates Ovarian Cancer Cell Surface uPA/uPAR Activity*



FUTURE in Biomedicine Program <https://www.healthcare.uiowa.edu/FutureBiomedicine>
Map of CBRB - <http://www.uiowa.edu/~smaps/c/cbrb1.htm>. Parking available in the Newton Road Parking Ramp
Contact Information: Madeline Shea, Ph.D. Professor of Biochemistry & Director (319-335-7885), and Ms. Sonya Housholder, Secretary, Office of the Dean, (319) 335-8587