

2nd Annual FUTURE in Biomedicine Symposium 2010

Fostering Undergraduate Talent – Uniting Research and Education

Friday, July 30, 2010

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

1:15 pm **Chinh Dao, Ph.D., Drake University, Des Moines, IA – Class of 2010**
Lipid Rafts in Erythropoietin Receptor Signaling
UI Host Faculty Member - Fred Quelle, Pharmacology

1:45 pm **Mac McLaughlin, Ph.D., Loras College, Dubuque, IA – Class of 2010**
A Longitudinal Investigation of Neuropsychological Function in the Aging Brain
UI Host Faculty Member – Natalie Denburg, Neurology

2:15 pm **Shawn Ellerbroek, Ph.D., Wartburg College, Waverly, IA – Class of 2010**
Structural Determinants of Rho Protein Activation
UI Host Faculty Member – Kris DeMali, Biochemistry

Poster Presentations by Undergraduate Researchers

2:45 pm **Foyer next to Kelch Conference Room • Refreshments will be served**

Drake - Randi Rumbold and Chinh Dao, Ph.D. (2010 Fellow), and
Daisuke Mayuzumi and Fred Quelle, Ph.D. (UI Pharmacology)
Erythropoietin Receptor Ubiquitination and Trafficking Effects on Signal Transduction

Graceland - Billy Whitham, Alex Bogda and Dan Pratt, Ph.D., (2009 Fellow)
The Isolation and Purification of Platinum from Catalytic Converters

Loras - Stephen Brandt and Mac McLaughlin, Ph.D. (2010 Fellow), and
Christopher M. Nguyen, Daniel Tranel and Natalie Denburg, Ph.D. (UI Neurology)
Decision-Making Ability Predicts Working Memory in a Follow-Up Study of Older Adults

Morningside - Johan Conradie and Rachel Robson, Ph.D. (2010 Fellow),
Dan Diekema (UI Internal Medicine), and Alex Horswill, Ph.D. (UI Microbiology)
Nostrils are Independent with Regard to Staphylococcus aureus Carriage

Northwestern - Adam Verhoef and Karissa Carlson Ph.D. (2009 Fellow)
Utilizing Fluorescence Resonance Energy Transfer to Examine Specific RPA Domain Interactions with DNA
UI Collaborating Laboratory - Marc Wold, Biochemistry

Wartburg - Molly Wernli and Shawn Ellerbroek, Ph.D. (2010 Fellow), and
Kris DeMali, Ph.D. (UI Biochemistry)
Going Separate Ways ... RhoA and RhoC

3:15 pm **Rachel Robson, Ph.D., Morningside College, Sioux City, IA – Class of 2010**
Relatedness of Asymptomatic Isolates of Staphylococcus aureus within Individual Carriers
UI Host Faculty Member – Alex Horswill, Microbiology

3:45 pm **Shannon Mackey, Ph.D., St. Ambrose University, Davenport, IA – Class of 2009**
Back to the FUTURE, Part II: The Quest for Drosophila Genes that Modify Chromatin
UI Host Faculty Member – Lori Wallrath, Biochemistry

4:15 pm **Jerry Honts, Ph.D., Drake University, Des Moines, IA – Class of 2009**
Evidence that Calcium Ions and Phosphorylation Control the Assembly of the Membrane Skeleton in Tetrahymena
UI Host Faculty Member – Madeline Shea, Biochemistry



FUTURE in Biomedicine Program <https://www.healthcare.uiowa.edu/FutureBiomedicine>

Map of CBRB - <http://www.uiowa.edu/~maps/c/cbrb1.htm>. Parking available in the Newton Road Parking Ramp
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