6th Annual FUTURE in Biomedicine Symposium

Friday, August 1, 2014 Beisner Auditorium, Bowen Science 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	Ryan Bezy, Ph.D.Mt. Mercy, Cedar RapidsCharacterization of YedR, a Novel Cell Division Protein in Escherichia coliUI Host: David Weiss, Microbiology
1:35 pm	Shawn Ellerbroek, Ph.D.Wartburg College, Waverly Coupling Actin to Cell AdhesionsUI Host: Kris DeMali, Biochemistry
1:55 pm	BREAK
2:05 pm	Randy Mercer, Ph.D.Hawkeye Community College, WaterlooBetter Futures for Iowans FellowVariability in Wolbachia Infections of Mosquitoes: a Key to Invasion Success?UI Host: Wendy Maury, Microbiology
2:25 pm	 Stephanie Toering Peters, Ph.D. Wartburg College, Waverly Loss of Dgk Impairs Synapse Function and Structure UI Host: Andy Frank, Anatomy and Cell Biology
2:45 pm	Poster Presentations by Undergraduate Researchers and Alumni. Refreshments will be served.
3:20 pm	Adam Moser, Ph.D.Loras College, DubuqueSimulating Phosphoproteins using Coarse Grain ModelsUI Host: Adrian Elcock, Biochemistry
3:40 pm	Jerry Honts, Ph.D.Drake University, Des MoinesTetrahymena Tcb2 Protein: a Novel Calcium-binding Protein that Forms a Contractile AssemblyUI Host: Madeline Shea, Biochemistry
4:00 pm	BREAK
4:10 pm	Michael Leonardo, Ph.D.Coe College, Cedar RapidsControl of Vibrio parahaemolyticus Biofilm Formation by Intra- and Interspecies CommunicationUI Host: Linda McCarter, Microbiology
4:30 pm	Ugur Akgun, Ph.D.Coe College, Cedar RapidsProton Imaging with a High Density Scintillating Glass CalorimeterUI Host: Dongxu Wang, Radiation Oncology
4:50 pm	Closing Remarks - Madeline A. Shea, Ph.D., Director

Poster Presentations by Undergraduate Researchers – Class of 2014

Coe - Biology

Chas Messer, Michael Leonardo, Ph.D. (2014 Fellow) and Linda McCarter, Ph.D. (UI Microbiology) *Mixed Strain Biofilms: Competition and Cooperation between Vibrio and Shewanella Strains*

Coe - Physics

Amy Dong, David Pritchett, Ugur Akgun, Ph.D. (2014 Fellow) and Dongxu Wang, Ph.D. (UI Radiation Oncology) *Simulating A Glass Proton Imaging Detector*

Loras - Chemistry

Alexis Hanson, Jason Derby, Adam Moser, Ph.D. (2014 Fellow) and Adrian Elcock, Ph.D. (UI Biochemistry) Developing Force Fields for Phosphoprotein Simulations

Mount Mercy - Biology

David Stanek, Ryan Bezy, Ph.D. (2014 Senior Fellow) and David Weiss, Ph.D. (UI Microbiology) *A Genetic Analysis of the Role of yedR in Escherichia coli Cell Division*

Wartburg - Biology

Jessa Bidwell, Stephanie Toering Peters, Ph.D. (2014 Senior Fellow) and Andy Frank, Ph.D. (UI Anatomy and Cell Biology) *The Roles of Diacylglycerol Kinase in Synapse Development and Function*



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