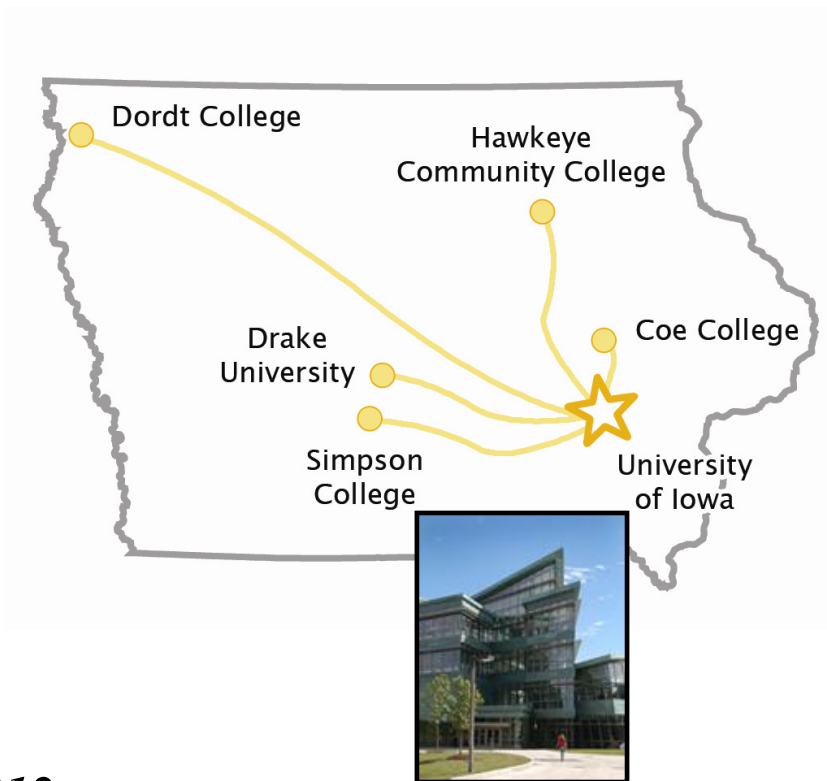


4<sup>th</sup> Annual

# FUTURE in Biomedicine Symposium

Friday, July 27, 2012 • 1 to 5 p.m. • Kelch Conference Room • 1289 CBRB



## *Class of 2012*

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**Coe ♦ Paul Storer, Ph.D. and Molly Shlichenmayer**

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**Dordt ♦ Kayt Frisch, Ph.D. and Lee Veldkamp**

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**Drake ♦ Deb Christensen, Ph.D. and Kristen Dahlem**

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**Hawkeye  
Community ♦ Randy Mercer, Ph.D. and Quynh Nguyen**

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**Simpson ♦ Justin Brown, Ph.D. and Emily Magers**

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Fostering Undergraduate Talent – Uniting Research and Education in Biomedicine

<https://www.healthcare.uiowa.edu/FutureBiomedicine>

# Schedule of Presentations

**1:00 pm**    **Introductory Remarks** – Madeline A. Shea, Ph.D., Director

**1:15 pm**    **Kayt Frisch, Ph.D.**  
Dordt College, Sioux Center, IA  
*Measuring Function: Using CT Imaging to Understand How the Lung Works*  
UI Host: Eric Hoffman, Radiology

**1:45 pm**    **Deb Christensen, Ph.D.**  
Drake University, Des Moines, IA  
*Temporal and Spatial Localization of FSH Receptors in Placenta: Evidence for a Novel Role in Angiogenesis?*  
UI Host: Debbie Segaloff, Molecular Physiology and Biophysics

**2:15 pm**    **Randy Mercer, Ph.D.**  
Hawkeye Community College, Waterloo, IA  
*Genetic variation of endosymbiotic bacterium Wohlbachia in its mosquito vector host*  
UI Host: Wendy Maury, Microbiology

**2:45 pm**                    *Poster Presentations by Undergraduate Researchers and Alumni*  
*Refreshments will be served.*

**3:30 pm**    **Justin Brown, Ph.D.**  
Simpson College, Indianola, IA  
*Use of Modulation Frequency to Overcome Analgesic Tolerance to Transcutaneous Electrical Nerve Stimulation (TENS)*  
UI Host: Kathleen Sluka, Physical Therapy and Rehabilitation Sciences

**4:00 pm**    **Paul Storer, Ph.D.**  
Coe College, Cedar Rapids, IA  
*Expression of procalcitonin in murine microglia: Implications for migraine*  
UI Host: Andy Russo, Molecular Physiology and Biophysics

**4:30 pm**    **Closing Remarks** - Madeline A. Shea, Ph.D., Director

## Poster Presentations by Undergraduate Researchers

### Coe

**Molly Schlichenmayer** and Paul Storer, Ph.D. (2012 Fellow), and  
Ann Raddant and Andrew Russo, Ph.D. (UI Molecular Physiology and Biophysics)

*Murine microglia express procalcitonin: Implications for migraine*

### Dordt

**Lee Veldkamp** and Kayt Frisch, Ph.D. (2012 Fellow), and Ben Dilger, and  
Eric Hoffman, Ph.D. (UI Radiology)

*Measuring the Lung using CT Imaging*

### Drake

**Kristin Dahlem** and Deb Christensen, Ph.D. (2012 Fellow), and Julie A.W. Stilley,  
and Debbie Segaloff, Ph.D. (UI Molecular Physiology and Biophysics)

*Spatial characterization of FSH Receptor in term placenta:  
A novel role in angiogenesis*

### Hawkeye Community College

**Quynh Nguyen** and Randy Mercer, Ph.D. (2012 Fellow), and Wendy Maury, Ph.D.  
(UI Microbiology)

*Are native mosquito species infected with Wolbachia:  
an opportunity to learn biomedical techniques*

### Simpson

**Emily Magers** and Justin Brown, Ph.D. (2012 Fellow), and Carol GT Vance, P.T.,  
Barbara Rakel, R.N., Ph.D. and Kathleen Sluka, P.T., Ph.D. (UI Physical Therapy  
and Rehabilitation)

*Overcoming Tolerance to Transcutaneous Electrical Nerve Stimulation (TENS) by  
Modulating Frequency*

## Poster Presentations by the Class of 2011

### Mt Mercy University

**Molly M. First**, Richard J. Roller, Ph.D. (UI Microbiology), and Joseph Nguyen,  
Ph.D. (FUTURE in Biomedicine Fellow, Class of 2011)

*Towards the Characterization of Essential Herpesvirus Interactions*



# FUTURE in Biomedicine Program

Fostering **U**ndergraduate **T**alent - **U**ning **R**esearch & **E**ducation

<http://www.medicine.uiowa.edu/FutureBiomedicine>

## Class of 2012



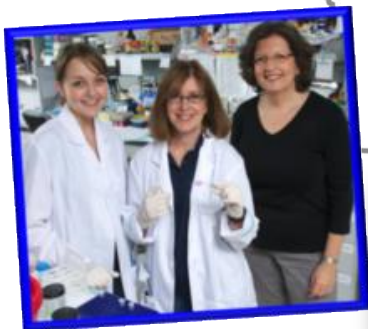
Fellows and Students from Hawkeye Community College (Waterloo), Dordt College (Sioux Center), Simpson College (Indianola), Drake University (Des Moines) and Coe College (Cedar Rapids).



Hawkeye



Coe



Drake



Simpson

