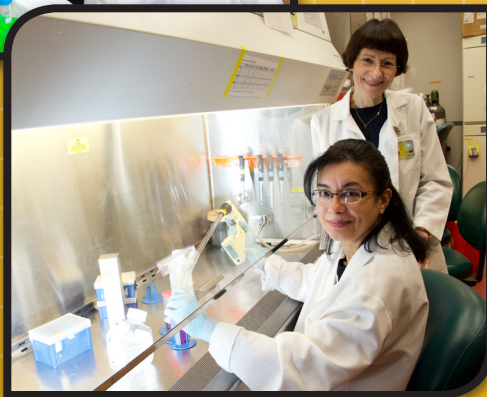
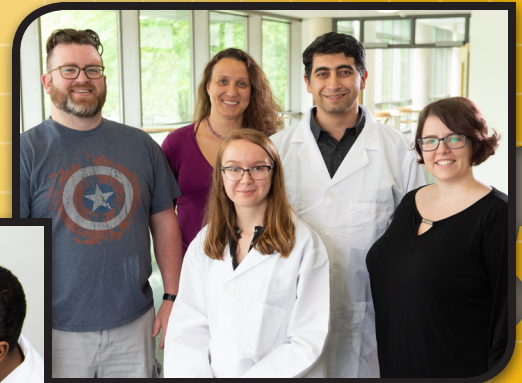
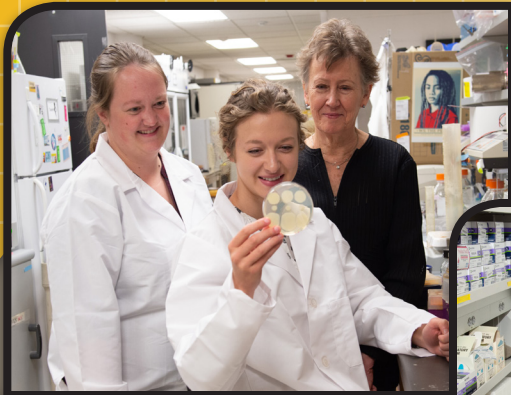


11th Annual FUTURE in BiomedicineSM

SYMPOSIUM

FRIDAY, JULY 26, 2019 | 1-4PM

1117 Medical Education Research Facility



SCHEDULE OF EVENTS

1:00 PM **Poster Presentations by Student Researchers**

Megan Wassom

Buena Vista University, Storm Lake
Brittney Dinkel, PhD, 2019 Fellow
Linda McCarter, PhD, Microbiology & Immunology

*Second Messenger Signaling and Surface Colonization Strategies in Bacteria: Defining a c-di-GMP Driven Regulatory Network in *Vibrio parahaemolyticus**

Sydney Meeker

Cornell College, Mount Vernon
Barbara Christie-Pope, PhD, 2019 Senior Fellow
Robert Cornell, PhD, Anatomy and Cell Biology

Investigating Ion Channels in Models of Parkinson's Disease

Zoe Randall

Cornell College, Mount Vernon
2019 FUTURE Student Affiliate
Barbara Christie-Pope, PhD, 2019 Senior Fellow
Mark Niciu, MD, PhD, Psychiatry

Measuring the Effect of Antidepressants on Cellular Respiration in Differentiated Neurons

Raghuram Inturi

Grinnell College, Grinnell
Charvann Bailey, PhD, 2019 Fellow
Doug Spitz, PhD, Radiation Oncology

The Role of Sirtuins and Oxidative Stress in Lung Cancer

Klarie Li

Grinnell College, Grinnell
Charvann Bailey, PhD, 2019 Fellow
Doug Spitz, PhD, Radiation Oncology

Erlotinib Resistance in Head and Neck Cancer Cells Confer Resistance to Radiation

Victor Soupene and Ryan Lockard

University of Northern Iowa, Cedar Falls
Nilda Rodriguez, PhD, 2019 Senior Fellow
Mary Wilson, MD, Internal Medicine and Microbiology and Immunology

*Lipid Bodies Accumulation in *Leishmania infantum*-Infected Macrophages of Male Versus Female Origin*

Mary Sutton

University of Northern Iowa, Cedar Falls
Ali Tabei, PhD, 2019 Senior Fellow
Maria Spies, PhD, Biochemistry

Stochastic Lattice Simulation of the RAD51 Nucleoprotein Filament Formation on Single-Stranded DNA

1:30 PM **Introductory Remarks** - Madeline A. Shea, PhD, Director

1:35 PM **Brittney Dinkel, PhD**
Buena Vista University, Storm Lake
UI Faculty Host: Linda McCarter, PhD, Microbiology and Immunology

Characterization of c-di-GMP Signaling in Surface Colonization Decisions by Bacteria

1:55 PM **Barbara Christie-Pope, PhD**
Cornell College, Mount Vernon
UI Faculty Host: Robert Cornell, PhD, Anatomy and Cell Biology

Magnesium Ion Channels and Neurodegeneration

2:15 PM **Alisa Drapeaux, DPT**
Drake University, Des Moines
UI Faculty Host: Jason Wilken, PT, PhD, Physical Therapy and Rehabilitation Sciences

Changing Running Biomechanics with Manual Therapy - A Case Study

2:35 PM **BREAK.** Refreshments will be served.

2:40 PM **Charvann Bailey, PhD**
Grinnell College, Grinnell
UI Faculty Host: Doug Spitz, PhD, Radiation Oncology

The Efficacy of Sirtuin Inhibitors in Non-Small Cell Lung Cancer (NSCLC)

3:00 PM **Nilda Rodriguez, PhD**
University of Northern Iowa, Cedar Falls
UI Faculty Host: Mary Wilson, MD, Internal Medicine and Microbiology and Immunology

Immune Responses, Lipid Accumulation, and Disease Outcome in Leishmania infantum Infection

3:20 PM **Ali Tabei, PhD**
University of Northern Iowa, Cedar Falls
UI Faculty Host: Maria Spies, PhD, Biochemistry

Modeling of the Nucleoprotein Filament Formation in Homologous Recombination

3:40 PM **Closing Remarks** - Madeline A. Shea, PhD, Director

CLASS OF 2019

The *FUTURE in Biomedicine*SM Program Class of 2019 is comprised of 6 Faculty Fellows and 8 student researchers.

Below: Class of 2019 Faculty Fellows and Students with Director, Dr. Madeline Shea



2009-2019
PARTICIPATING INSTITUTIONS

The *FUTURE in Biomedicine*SM Program is supported primarily by the University of Iowa Carver College of Medicine and participating institutions.

For more information on the *FUTURE in Biomedicine*SM Program, visit www.medicine.uiowa.edu/future.



FUTURE
IN BIOMEDICINESM PROGRAM
Fostering Undergraduate Talent -
Uniting Research and Education

 **UNIVERSITY OF IOWA**
CARVER COLLEGE
OF MEDICINE
University of Iowa Health Care