

Syracuse Biomaterials Institute Research Poster Presentations

April 8, 2014

2:00pm to 3:15pm

SBI Seminar Room, 414 Bowne Hall

1. Ian McCabe, PhD. Student (Bioengineering)

Title: Dynamics of PIP2-Ca²⁺ Structures in Lipid Bilayers

Authors: Ian P. McCabe and Dr. Martin B. Forstner

2. Kristen Hamner, Ph.D. Student (Chemistry)

Title: Using Smart Polymers to Regulate DNA-mediated Nano Assembly and Encoded Nanocarrier Drug Release

Authors: Kristen L. Hamner, Colleen Alexander, Kaitlin Coopersmith, David Reishofer, Christina Provenza, James C. Dabrowiak, Mathew M. Maye

3. Gregory W. Kubaki, Ph.D. Student (Biomedical and Chemical Engineering)

Title: Inflammatory-cell-induced corrosion of CoCrMo implants

Authors: Gregory W. Kubacki, Shiril Sivan, Yangping Liu, and Jeremy L. Gilbert.

4. Fangchao Song, Ph.D. Student (Biomedical and Chemical Engineering)

Title: Surface stiffness affects Escherichia coli adhesion and antibiotic susceptibility of attached cells.

(Advisor Dr. Dacheng Ren)

5. David Wilson, Bachelor of Science, Class of 2014 (Biomedical and Chemical Engineering)

National Science Foundation Graduate Research Fellowship, University Scholar 2014

Title: Statin Delivery by Targeted, Micellar Nanocarriers to Treat Peripheral Artery Disease

Authors: David R. Wilson, Nan Zhang, Martin B. Forstner, Vivian Gahtan, Rebecca A. Bader
(Advisor: Dr. Becky Bader)

6. Giuseppe Passucci, Ph.D. Student, IGERT Fellow (Physics)

Title: Modeling cells on anisotropic substrates

Authors: Giuseppe Passucci, Megan E. Brasch, James H. Henderson, M. Lisa Manning

(Advisors Dr. Lisa Manning and Dr. James H. Henderson)

7. David Lemon, Ph.D. Student, IGERT Fellow (Biology)

Title: Bacterial mechanosensing of compressed hydrogels

Authors: David J. Lemon, Xingbo Yang, Pragma Srivastava, M. Cristina Marchetti, and Anthony

Garza (Advisor: Dr. Anthony Garza)

8. Melodie Torres, Ph.D. Student, IGERT Fellow (Biomedical and Chemical Engineering)

Title: A biomimetic approach to developing anti-thrombotic small diameter prosthetic vascular grafts

Authors: Melodie I. Torres, Ifeanyi U. Onyejekwe, Patrick T. Mather

Advisor (s): Patrick T. Mather, Rebecca A. Bader