

CMMB IGERT and M-CNTC Annual Symposium

Thursday, May 8, 2014

8:00 AM – 4:30 PM

Venue: Micro and Nanotechnology Laboratory

Agenda

Revised 5/13/14

8:00 – 9:00 AM	Continental Breakfast and Registration	MNTL Atrium
9:00 – 9:15 AM	Opening Remarks Rashid Bashir, Head, Department of Bioengineering	1000 MNTL
9:15 – 9:30 AM	Evaluation Report Lizanne DeStefano, I-STEM Education Initiative Ayesha Tillman, I-STEM Education Initiative	
Session Chair	Lizanne DeStefano, I-STEM Education Initiative	
9:30 – 10:30 AM	CMMB IGERT Research Highlights <i>Presentations to include 1 minute comments/overview by adviser, followed by a 8 minute trainee presentation, and 2 minutes for Q&A</i>	
	<i>Uptake of SiO₂ Nanoparticles and Mechanobiology on the Cerebrovascular Endothelium</i> Kevin Kim and Carlos Dostal	
	<i>Stem Cell Membrane Engineering: Approach for Modulating Cell-Biomaterial Interactions</i> Gregory Underhill and Nidhanjali Bansal	
	<i>Fluorescent Carbon Nanoparticles from Molasses for Cancer Theranostics</i> Rohit Bhargava and Shaneen Braswell	
	<i>Quantification of Microcirculatory Flow</i> Brad Sutton and Alexander Cerjanic	
	<i>Identification of Non-coding RNAs Involved in Human Embryonic Stem Cell Fate Determination</i> Fei Wang and Mahdieh Jadaliha	

10:30 – 10:45 AM	Group Photo and Break	MNTL Atrium
Session Chair	Jimmy Hsia, Mechanical Science and Engineering	
10:45 – 11:30 AM	CMMB IGERT Research Highlights, continued <i>Presentations to include 1 minute comments/overview by adviser, followed by a 8 minute trainee presentation, and 2 minutes for Q&A</i>	1000 MNTL
	<i>Computational Design of a Hopping Biomechanical Machine</i> Jimmy Hsia and Daniel Perlitz	
	<i>3D Microfabrication of Biological Machines</i> Rashid Bashir and Ritu Raman	
	<i>Mechanically-Selected Tumorigenic Cells in Pancreatic Cancer</i> Ning Wang and Brittany Weida	
	<i>Investigating Peptide Release from the Cells of the Dorsal Root Ganglion upon Mechanical Stimulation</i> Taher Saif and Emily Tillmaand	
Career Panel Moderators	Alex Cerjanic, IGERT Trainee, Bioengineering Richard Graybill, M-CNTC Trainee, Chemistry Ritu Raman, IGERT Trainee, Mechanical Science and Engineering	
11:30 AM – 1:00 PM	Lunch Career Panel <ul style="list-style-type: none"> • Laura Frerichs, Director of the University of Illinois Research Park • William Schuh, CMIO at Carle Foundation Hospital • Dustin Starkey, University Site Manager at Abbott Nutrition • Harry Radosky, Staff Scientist, Lawrence Livermore National Laboratory 	MNTL Atrium and 1000 MNTL
Afternoon Session Chair	Taher Saif, Mechanical Science and Engineering	
1:00 – 1:45 PM	M-CNTC Research Highlights <i>Presentations to include 1 minute comments/overview by adviser, followed by a 8 minute trainee presentation, and 2 minutes for Q&A</i>	1000 MNTL
	<i>“Shake-n-Incubate”: Flow-Mediated Stem Cell Labeling with Superparamagnetic Iron Oxide Nanoparticle Clusters</i> Hyunjoon Kong and Nick Clay	
	<i>Polyelectrolyte-wrapped surface-enhanced Raman scattering nanoparticles</i> Rohit Bhargava and Brent DeVetter	
	<i>Forming of Janus Particle by Adsorption and Phase Separation</i> Jimmy Hsia and Donghai Gai	
	<i>Gold Nanorods in the Extracellular Matrix and their Effect on Cancer Cell Migration</i> Hyunjoon Kong and Elissa Grzincic	

1:45 – 2:00 PM	Break	MNTL Atrium
2:00 – 2:40 PM	<p>M-CNTC Research Highlights, continued <i>Presentations to include 1 minute comments/overview by adviser, followed by a 8 minute trainee presentation, and 2 minutes for Q&A</i></p> <p><i>Microreactors for Synthesis of Molecular Imaging Probes</i> Paul Kenis and Joseph Whittenberg</p> <p><i>Development of drug-polyester nanoconjugates for cancer therapy</i> Jianjun Cheng and Qian Yin</p> <p><i>Facile and efficient preparation of anisotropic DNA-functionalized gold nanoparticles and their regioselective assembly</i> Yi Lu and Li Huey Tan</p>	1000 MNTL
2:40 – 4:00 PM	<p>Poster Session and Reception <i>Currently funded trainees are required to present a poster and previous trainees are invited to present a poster.</i></p>	MNTL Atriums 1 st and 2 nd Floors
4:00 – 4:30 PM	<p>Closing Session</p> <ul style="list-style-type: none"> • Presentation of Trainee Certificates • Best Poster Awards • Concluding Remarks 	1000 MNTL

Annual Symposium Sponsored by:

- [NSF Integrative Graduate Education and Research Traineeship \(IGERT\) on Cellular and Molecular Mechanics and BioNanotechnology \(CMMB\)](#)
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