

The NIBIB Edward C. Nagy New Investigator Symposium

April 12, 2011
7:30 AM–4:45 PM
Reception 4:45–6:30 PM
Lister Hill Auditorium



Agenda

- | | |
|------------------|--|
| 7:30 – 8:00 AM | Coffee and Registration |
| 8:00 – 8:15 AM | Welcome
<i>Roderic I. Pettigrew, Ph.D., M.D., NIBIB Director</i> |
| 8:15 – 8:30 AM | Opening Remarks
<i>Robert T. Kennedy, Ph.D., University of Michigan (Website)</i> |
| 8:30 – 9:00 AM | A 'Multilayered' Approach to the Delivery of DNA: Surface-Mediated Cell Transfection and Tunable Multi-Agent Delivery
<i>David M. Lynn, Ph.D., University of Wisconsin, Madison (Website)</i> |
| 9:00 – 9:15 AM | Discussion |
| 9:15 – 9:45 AM | Rapid Directed Evolution of Molecules in Microfluidic Systems
<i>H. Tom Soh, Ph.D., University of California, Santa Barbara (Website)</i> |
| 9:45 – 10:00 AM | Discussion |
| 10:00 – 10:30 AM | <i>Break</i> |
| 10:30 – 11:00 AM | Image-Guided Non-Invasive Ultrasonic Thrombolysis Using Histotripsy
<i>Zhen Xu, Ph.D., University of Michigan (Website)</i> |
| 11:00 – 11:15 AM | Discussion |
| 11:15 – 11:45 AM | High Spatial and Temporal Resolution MRI of Breast Cancer
<i>Brian A. Hargreaves, Ph.D., Stanford University (Website)</i> |
| 11:45 AM – 12:00 | Discussion |
| 12:00 – 1:00 PM | <i>Lunch</i> |
| 1:00 – 1:30 PM | Robotic Prosthesis for Enhancing the Mobility of Transfemoral Amputees
<i>Michael Goldfarb, Ph.D., Vanderbilt University (Website)</i> |
| 1:30 – 1:45 PM | Discussion |
| 1:45 – 2:15 PM | Mucus Penetrating Nanoparticles: Overcoming the Mucus Barrier to Drug and Gene Delivery
<i>Justin Hanes, Ph.D., Johns Hopkins University (Website)</i> |
| 2:15 – 2:30 PM | Discussion |
| 2:30 – 3:00 PM | <i>Break</i> |

- 3:00 – 3:30 PM Engineering Temporal Hydrogel Properties to Control Stem Cell Behavior and Tissue Formation
Jason A. Burdick, Ph.D., University of Pennsylvania ([Website](#))
- 3:30 – 3:45 PM Discussion
- 3:45 – 4:15 PM Computational Anatomy: Simple Statistics on Interesting Spaces for Developing Imaging Biomarkers
Sarang Joshi, D.Sc., University of Utah ([Website](#))
- 4:15 – 4:30 PM Discussion
- 4:30 – 4:45 PM Closing Remarks
Sangeeta Bhatia, M.D., Ph.D., Massachusetts Institute of Technology ([Website](#))
- 4:45 – 6:30 PM *Reception*