

# Research

## Drug Repurposing and Reformulation: Opportunities, Risks, and Challenges

February 22, 2016 | 4:00-6:00 PM

### Introductions:

Gloria Waters, PhD  
Avrum Spira, MD  
David Center, MD

Vice President and Associate Provost for Research  
Professor, Medicine, and Director, BU-BMC Cancer Center  
Professor, Medicine, and Director, CTSI

### Research Presentations:

#### I. Discovery

- **openSESAME: Matching Drugs and Diseases *In Silico* Using Gene Expression Data**  
*Marc Lenburg, PhD, Professor, Medicine, School of Medicine*
- **Building the Lung CMap: A Tissue-Specific Paradigm for Drug Repurposing**  
*Elizabeth Moses, PhD Candidate, Pathology/Immunology*
- **High-Throughput Transcriptional Screening of Chemicals and Drugs**  
*Stefano Monti, PhD, Associate Professor, Medicine, School of Medicine*
- **A Computational Method to Reposition Drug Candidates via Inversely Correlated Cellular Functions**  
*David Sherr, PhD, Professor, Environmental Health, School of Public Health*
- **Using shRNA Screens for Finding New Drug Combinations**  
*Michael Sherman, PhD, Professor, Biochemistry, School of Medicine*

#### II. Pre-Clinical/Chemistry

- **Chemical Synthesis of Natural Product Variants to Probe Diverse Biological Pathways**  
*John Porco, Jr., PhD, Professor, Chemistry, College of Arts & Sciences*
- **Repurposing Through Small Molecule Evolution**  
*Aaron Beeler, PhD, Assistant Professor, Chemistry, College of Arts & Sciences*
- **Design and Synthesis of Fungal-Selective Hsp90 Inhibitors**  
*Lauren Brown, PhD, Research Assistant Professor, Chemistry, College of Arts & Sciences*
- **Drugging the Undruggable: Creating New Opportunities for Treating Brain Disorders**  
*Tyrone Porter, PhD, Associate Professor, Mechanical Engineering, College of Arts & Sciences*
- **Theranostics and *In Vitro* Models of Metastasis**  
*Joyce Wong, PhD, Professor, Biomedical Engineering, College of Arts & Sciences*
- **Inhibitors of Transcription Factor LSF Oncogene in Hepatocellular Carcinoma**  
*Ulla Hansen, PhD, Professor, Biology, College of Arts & Sciences*

### III. Legal/IP

- **Repositioned Medicines: Overview of Patent and Regulatory Interactions**

*Warren Kaplan, PhD, JD, MPH, Clinical Assistant Professor, Global Health, School of Public Health*

- **Market Failures in Pharmaceuticals**

*Kevin Outterson, LL.M., JD, Professor, Law, School of Law*

*Thank you for your participation*



**Boston University** Office of the Vice President and Associate Provost for Research  
One Silber Way, 8th Floor, Boston, MA 02215  
617-353-2230 / [research@bu.edu](mailto:research@bu.edu)