

**Yale Systems Biology Institute and Cancer Systems Biology @Yale  
Symposium**  
**Yale West Campus • 800 West Campus Drive**  
**West Haven CT 06516**

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**Breakfast**

8:00-9:00 AM

**Welcome and Introduction**

9:00-9:45 AM Andre Levchenko, Ph.D.  
John C. Malone Professor of Biomedical Engineering, Director of Yale Systems  
Biology Institute, Director of Cancer Systems Biology@Yale (CaSB@Yale), Editor-  
in-Chief of Current Opinion in Systems Biology

**The Stromal Contribution to Metastasis**

9:45-10:15 AM Gunter Wagner, Ph.D.  
Alison Richard Professor of Ecology and Evolutionary Biology,  
Yale Systems Biology Institute

**Break**

10:15-10:30 AM Event Room A and B

**Microfabricated Structures and Devices for Cancer Systems Biology**

10:30-11:00 AM Rong Fan Ph.D.  
Associate Professor of Biomedical Engineering, Yale

**The CasBY Education and Outreach Core: Engaging with the Public and Disseminating  
our Research**

11:00-11:30 AM Dorottya Noble, Ph.D.  
Associate Director of the Raymond and Beverly Sackler Institute for Biological,  
Physical and Engineering Sciences, and of the Integrated Graduate Program in  
Physical and Engineering Biology, Yale

**Identification and Interrogation of Cancer Drivers and Co-Drivers Using Systems  
Approaches**

11:30-12:00 PM Sidi Chen Ph.D.  
Assistant Professor of Genetics, Yale Systems Biology Institute

**Lunch**

12:00-1:00 PM Event Room A and B

**Poster Session**

1:00-2:00 PM Event Room A and B

**Keynote Presentation: Systems Analysis of Cell Interaction Processes in the Tumor  
Micro-Environment**

2:00-2:45 PM Douglas Lauffenburger, Ph.D.  
Ford Professor of Biological Engineering, Chemical Engineering, and Biology,  
Head, Department of Biological Engineering, MIT

**Genome Engineering Technologies for Programming and Recoding Organisms**

2:45-3:05 PM Farren Isaacs, Ph.D.  
Associate Professor of Molecular, Cellular and Developmental Biology, Yale Systems  
Biology Institute

**A Synthetic Kinase Network Identifies a Small Molecule Inhibitor of Glioblastoma  
Migration**

3:05-3:25 PM Jesse Rinehart, Ph.D.  
Associate Professor of Cellular and Molecular Physiology, Yale Systems Biology  
Institute

**Normalizing Metabolic Heterogeneity to Inhibit Cancer Cell Invasion**

3:25-3:40 PM Rachel Commander  
Graduate Student, Winston Cancer Institute, Emory University

**Break**

3:40-3:55 PM Event Room A and B

**Mechanical Force Production During Cell Migration**

3:55-4:15 PM Michael Murrell, Ph.D.  
Assistant Professor of Biomedical Engineering, Yale Systems Biology Institute

**Negative Feedback as a Facilitator of Gene Network Evolution**

4:15-4:35 PM Murat Acar, Ph.D.  
Associate Professor of Molecular, Cellular and Developmental Biology, Yale Systems  
Biology Institute

**Note of Thanks and Awards**

4:35-4:45 PM Andre Levchenko, Ph. D.  
John C. Malone Professor of Biomedical Engineering, Director of Yale Systems  
Biology Institute, Director of Cancer Systems Biology@Yale (CaSB@Yale), Editor-  
in-Chief of Current Opinion in Systems Biology

**Reception and Networking**

4:45-5:45 PM Event Room A and B