

AGENDA for Wednesday September 14, 2016 BSRB Kahn Auditorium

Advancing Precision Medicine through Complex Systems Biology

08:30-09:00 am Registration and coffee/tea

09:00-09:15 am Welcome & introduction, Center Directors

09:15-10:00 am Kathyrn Miller-Jensen, Yale University

"Single-cell secretion profiling for systems immunology"

10:05-10:30 am Kayvan Najarian, CSE, EECS UM

"Integration of Heterogeneous Patient Data for a Holistic Approach to Critical Care"

10:30-10:45am coffee/tea break

10:45-11:30 am Sui Huang, Institute for Systems Biology

"Precision Despite Noise: critical state transitions in cell fate control- implications for cancer therapy and prediction in biomedicine"

11:40-12:05 Goncalo Abecasis, Chair, Biostatistics UM "Michigan Genomics Initiative and Other Large Scale Genetics"

12:10-01:25 pm Lunch- BSRB Seminar rooms A-C

01:30-2:15 pm Shayne Pierce-Cotter, University of Virginia

"Exposing the secrets of tissue growth and remodeling by modeling cells as (secret) agents"

02:25-02:50 pm Dan Beard, Physiology UM

"Targeting mechano-energetic coupling to treat heart disease"

2:55-3:10pm coffee/tea break

03:15-4:00 pm Yoram Vodovotz, Pittsburgh School of Medicine "Computational Modeling in Critical Illness: From Data Deluge to Discovery"

4:05-4:30pm Greg Thurber, Chem E UM

"Systems Pharmacology of Complex Therapeutics: Connecting tissue, cellular, and subcellular events to drug response in tumors"

04:30-4:40 pm Summary and Discussion

04:45-5:45 pm Poster Session and Reception- Lobby of BSRB