

Program for 2015 Systems Biology: Design Principles, Dynamic Regulation & Disease

Beijing, Aug 16 - 18, 2015

Venue: 101 Lecture Hall, Jinguang Life Sciences Building, School of Life Sciences, Peking University, Beijing, China.

(By the east entrance of Peking University, near the intersection of Chengfu Road and North Zhongguancun Street)

Website: <http://cqb.pku.edu.cn/meeting2015/>

Day 1 (Aug16, 2015)

Time	Activities/Title
14:00-17:30	Registration
18:00	Welcome Dinner

Day 2(Aug17, 2015)

Morning Session		
Coordinator:Luhua Lai		
Time	People	Activities/Title
8:50-9:00	Chao Tang	<i>Opening Remarks</i>
9:00-9:40	Chao Tang	<i>Cell Fate Determination</i>
9:40-10:00	Junyan Lu	<i>A Systematic Study of Colitis-Associated Colon Cancer: from Network Modelling to Drug Combinations</i>
10:00-10:20	Minghua Deng	<i>CCLasso: Correlation Inference for Compositional Data through Lasso</i>
10:20-10:40	Coffee Break& Group Photo	

Coordinator: Yuhai Tu

10:40-11:20	Feroz Papa	<i>Small molecule modulation of the unfolded protein response to treat cell degenerative diseases</i>
11:20-12:00	Yong Chen	<i>Controlling the cellular microenvironment of human pluripotent stem cells with a net of monolayer nanofibers</i>
12:00-14:00	Lunch	
Afternoon Session		
Coordinator: Hao Li		
14:00-14:40	Hong Qian	<i>Nonlinear stochastic dynamical system (NSDS) description of cell populations with epigenetic</i>

		<i>switching: Fitness, non-genetic cell state selection, and programmed cell state-change</i>
14:40-15:20	Qing Nie	<i>Stochastic Dynamics in Signal Transduction, Stem Cells, and Development</i>
15:20-16:00	Jianhua Xing	<i>Molecular Cooperativity Leads to Monoallelic Olfactory Receptor Expression</i>
16:00-16:20	Yanan Cao	<i>Genomics, mechanisms and therapies for neuroendocrine tumors</i>
16:20-17:30	Coffee Break & Poster Presentation	
18:00	Dinner	

Day 3(Aug18, 2015)

Morning Session		
Coordinator: Jianhua Xing		
Time	People	Activities/Title
9:00-9:40	Jason W. Locasale	<i>Quantitative biology of glucose and amino acid metabolism in health and disease</i>
9:40-10:20	Ge Yang	<i>Quantitative analysis and modeling of spatial regulation of axonal transport in normal and degenerative neurons</i>
10:20-10:40	Coffee Break	
Coordinator: Feroz Papa		

10:40-11:20	Hao Li	<i>Systems Biology of Aging</i>
11:20-11:40	Wenzhe Ma	<i>Single Molecule Study of Dishevelled upon Wnt Pathway Activation</i>
11:40-12:00	Feng Liu	<i>Towards quantifying the mechanochemical network controlling the polarization and migration of cancer cells</i>
12:00-14:00	Lunch	
Afternoon Session		
Coordinator: Jason Locasale		
14:00-14:40	Zhi Qi	<i>Aligning and repairing broken chromosomes</i>

14:40-15:20	Yuhai Tu	<i>The Free Energy Cost of Accuracy in Biology: Timekeeping and Adaptation</i>
15:20-15:40	Ping Wei	<i>Programmable Oscillatory Signaling Dynamics of a Synthetic NF-κB Pathway in yeast</i>
15:40-16:00	Coffee Break	
Coordinator: Hong Qian		
16:00-16:40	Qi Ouyang	<i>Mutation-induced protein interaction kinetics changes affect apoptotic network dynamic properties and facilitate oncogenesis</i>
16:40-17:00	Lei Zhang	<i>Computation of Transition State and its Applications in Systems Biology</i>

17:00-17:20	Hongli Wang	<i>Oscillations with thermal robustness in small gene circuits</i>
17:20-18:00	CQB site visiting (Integrated Science Research Center, 4th Floor)	
18:30	Dinner	