

# Microfluidics and Quantitative Biology

Beijing, October 16-18, 2013

(Tentative)

Venue: 101 Lecture Hall, JinguangLifeSciencesBuilding,

School of Life Sciences, PekingUniversity

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

Homepage: <http://cqb.pku.edu.cn/2013meeting/>

## Day 1 (Oct. 16, 2013)

<b>Morning Session</b> <b>Chair: Luhua LAI</b>		
Time	People	Activities/Title
9:00-9:10	Chao TANG	Opening Remarks
9:10-10:00	Robert H. AUSTIN	The Demon's Ratchet: from Dark DNA to Dark Matter
10:00-10:30	<b>Coffee Break</b>	
10:30-11:10	Chunxiang LUO	Quantitative Studies Of Dynamic Cellular Response In Microfluidic System
11:10-12:00	YanyiHUANG	Microfluidics Facilitated Genome Sequencing for Limited Number of Cells
12:00-14:00	<b>Lunch &amp; Poster Session</b>	
<b>Afternoon Session</b> <b>Chair: Robert H. AUSTIN</b>		
14:00-14:50	Albert VAN DEN BERG	Labs, Cells and Organs on Chip
14:50-15:40	Xingyu, JIANG	Using Microfluidics to Understand the Mechanical Microenvironment of the Blood Vessel
15:40-16:00	<b>Coffee Break</b>	
16:00-16:50	Chunyang XIONG	Quantitative Approaches in Cell Mechanics and Mechanobiology
16:50-17:40	Yong CHEN	Synthetic Cellular Microenvironment: Artificial Extracellular Matrix and Microfluidics
18:30	<b>Welcome Dinner</b>	

## Day 2 (Oct. 17, 2013)

<b>Morning Session</b> <b>Chair: Yong CHEN</b>		
Time	People	Activities
9:00-9:50	Jianhua QIN	Towards Integrative Cancer Biology on a Chip
9:50-10:40	Mingming WU	Microfluidics for Cancer Cell Chemotaxis
10:40-11:00	<b>Coffee Break</b>	
11:10-12:00	Hao LI	Single Cell Analysis of Aging Using a Novel Microfluidic Device
12:00-14:00	<b>Lunch &amp; Poster Session</b>	
<b>Afternoon Session</b> <b>Chair: Hao LI</b>		
14:00-14:30	Luhua LAI	Discovery of Novel Chemoeffectors
14:30-15:20	William RYU	Multiscale Dynamics of Thermal Memory in C. Elegans
15:20-15:40	<b>Coffee Break</b>	
15:40-16:30	Francis LIN	Immune Cell Migration Guided by Complex Chemical and Electrical Cues
16:30-17:00	Liyu LIU	To be determined
17:00-17:30	Yuhai TU	Quantitative Study of Bacterial Motility by Microfluidics
18:30	<b>Dinner</b>	

## Day 3 (Oct. 18, 2013)

<b>Morning Session</b> <b>Chair: Yuhai TU</b>		
Time	People	Activities
9:00-9:50	David A. WEITZ	Drop-Based Microfluidics: Biology One Picoliter at a Time
9:50-10:20	Wenbin DU	SlipChip and Droplet Array for Quantitative Separation and Analysis of Bacterial Cells
10:20-10:50	<b>Coffee Break</b>	
10:50-11:20	Ping WEI	To be determined
11:20-11:50	Chao TANG	Using Microfluidics to Study Cellular Decision-making
11:50-12:00	Yuhai TU	Closing Remarks
12:00-14:00	<b>Lunch</b>	

