## 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: <a href="http://cqb.pku.edu.cn/2013meeting/">http://cqb.pku.edu.cn/2013meeting/</a>

## Day 1 (Oct. 16, 2013)

Mawaina Casa			
Morning Sess Chair: Luhua			
Cilaii. Luiiua	Chair: Lunua LAI		
Time	People	Activities/Title	
9:00-9:10	Chao TANG	Opening Remarks	
9:10-10:00	Robert H. AUSTIN	The Demons Ratchet: from Dark DNA	
		to Dark Matter	
10:00-10:30	Coffee Break		
10:30-11:10	Chunxiong 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>		
Afternoon Se	ssion		
Chair: Robert H. AUSTIN			
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	Coffee Break		
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	Welcome Dinner		

## Day 2 (Oct. 17, 2013)

Morning Sess	sion			
_	Chair: Yong CHEN			
Time	People	Activities		
8:50-9:40	Jianhua QIN	Microfluidics Platform for Quantitative Cancer Biology		
9:40-10:30	Mingming WU	Microfluidics for Cancer Cell Chemotaxis		
10:30-10:50	Coffee Break			
10:50-11:40	Luke P. LEE	Biophotonic Gene Circuits and Cellular BASICs		
11:40-12:10	Hao LI	Single Cell Analysis of Aging Using a Novel Microfluidic Device		
12:10-14:00	<b>Lunch&amp; Poster Session</b>			
Afternoon Session Chair: Hao LI				
14:00-14:30	Luhua LAI	Discovery of Novel Chemoeffectors		
		Using Microfluidic Devices and		
		Computational Screen		
14:30-15:20	William RYU	A Study of <i>C. elegans</i> Behavior and Memory using MicrodropletArrays		
15:20-15:40	Coffee Break			
15:40-16:30	Francis LIN	Immune Cell Migration in Complex Guiding Environments: An Example of Coordinated Guidance		
16:30-17:00	Liyu LIU	Quantifying Cancer Cell Collective Behaviors in Microfluidic Governed Landscapes		
17:00-17:30	Yuhai TU	Quantitative Understanding of Bacterial Chemotaxis from Microfluidic Experiments		
18:30	Dinner			

## Day 3 (Oct. 18, 2013)

Morning Session Chair: Yuhai TU		
Time	People	Activities
9:00-9:50	David A. WEITZ	Drop-Based Microfluidics: Biology One

		Picoliterat a Time
9:50-10:20	Wenbin DU	SlipChip and Droplet Array for
		Quantitative Separation and Analysis of
		Bacterial Cells
10:20-10:50	Coffee Break	
10:50-11:20	Ping WEI	Using Bacterial Virulence Protein to
		Modulate Frequency Dependent
		Osmo-Response in the Budding Yeast
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	Lunch	