

## SynBioYSF 2016 AGENDA

### WEDNESDAY, JULY 13, 2016

北京大学中关新园酒店一号楼一层大堂, 中关村北大街126号

5:00--7:00PM

Arriving and Registration

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### **THURSDAY, JULY 14, 2016**

北京大学中关新园酒店一号楼二层科学报告厅, 中关村北大街126号

8:00AM	Registration
8:50AM	Opening Remarks
Section 1	Moderator:魏平,北京大学
9:00AM	<b>合成生物学驱动天然产物创新的发展方向</b> 邓子新, 上海交通大学
9:30AM	Genetically Encoding New Bioreactivity 王磊, University of California, San Francisco
10:00AM	Coffee Break
Section 2	Moderator: 戴俊彪,清华大学/亓磊,Stanford University
10:20AM	Decaging Chemistry for Kinase Activation in Living Systems 陈鹏, 北京大学
10:40AM	Rationally designed fluorogenic protease reporters visualize spatiotemporal dynamics of apoptosis in vivo Xiaokun Shu, University of California, San Francisco
11:00AM	Development of Biosensors for Yeast Synthetic Biology 张杰/Jie Zhang, Technical University of Denmark
11:20AM	Synthetic cell-based sensors with programmed selectivity, sensitivity and dynamic range Baojun Wang, University of Edinburgh
11:40AM	Protein engineering based on amino acids interaction 江会锋, 中国科学院天津工业生物技术研究所
12:00PM	Lunch
Section 3	Moderator:刘陈立,中国科学院深圳先进技术研究院/ 张杰,Technical University of Danmark
1:20PM	Design and synthesize a genome 戴俊彪, 清华大学
1:40PM	Genetic circuit design with CRISPR/dCas system 张数一, Massachusetts Institute of Technology/Voight Lab
2:00PM	Genome editing for disease modeling and gene therapy 李大力, 华东师范大学
2:20PM	Aligning and Repairing Broken Chromosomes 齐志, 北京大学
2:40PM	Coffee Break
Section 4	Moderator。王宝俊,University of Edinburgh/ 娄春波,中国科学院微生物研究所
3:00PM	Synthetic Biology Approaches toward Protein Materials Fei Sun, Hong Kong University of Science and Technology
3:20PM	Make the Impossible Possible: Insects Digest Plastic 杨军, 北京航空航天大学
3:40PM	Probing neuronal receptors through the genetic code expansion Shixin Ye-Lehmann, École Normale Supérieure
4:00PM	Coffee Break & Poster Presentation
6:00PM	Forum Banquet 中关新园一号楼时光咖啡厅

### FRIDAY, JULY 15, 2016

北京大学中关新园酒店一号楼二层科学报告厅, 中关村北大街126号

Section 1	Moderator: 谢震,清华大学
9:10AM	Programming bacteria in time and space Lingchong You, Duke University
9:40AM	Spatiotemporal control of stem cell niche and cancer metastasis Xiling Shen, Duke University
10:00AM	Coffee Break
Section 2	Moderator: 王勇,中科院植物生理生态研究所/ 刘天罡,武汉大学
10:20AM	Reprogramming biological functionalities for autonomous microbial factories and therapeutics Matthew Chang, National University of Singapore
10:40AM	Dynamic control of gene regulatory logic by seemingly redundant transcription factors 郝楠/Nan Hao, University of California, San Diego
11:00AM	Design principles of dynamic gene regulation: Time-based regulation 林一瀚, 北京大学/California Institute of Technology
11:20AM	Mapping of genetic interaction network in mammalian cells 谢震, 清华大学
11:40AM	In vitro reconstitution guide for targeted synthetic metabolism of the high efficiency microbial cell factory 刘天罡, 武汉大学
12:00PM	Lunch
Section 3	Moderator:张福中,Washington University in St. Louis/ 霍毅欣,北京理工大学
1:20PM	Synthetic regulatory systems for metabolic engineering 张福中/Fuzhong Zhang, Washington University in St. Louis
1:40PM	Collective behaviour in confined bacterial suspensions 吴艺林/Yilin Wu, 香港中文大学
2:00PM	Coupling of chemokinesis and chemotaxis studied by a model bacterial motile system 袁军华, 中国科学技术大学
2:20PM	Collective oscillations within a microbial community 刘景涛, University of California, San Diego
2:30PM	RxnFinder: Data-driven One-stop Microbial Cell Factory Design Platform 胡黔楠, 中国科学院天津工业生物技术研究所
2:50PM	Coffee Break
Section 4	Moderator:叶海峰,上海师范大学/江会锋,中科院天津工业生物技术研究所
3:00PM	Exploring Conventional and Nonconventional Yeasts for Producing Bioplastic and Pharmaceutical Precursors <i>via</i> Shikimate Pathway
3:20PM	High-level 3-hydroxypropionate production via malonyl-CoA pathway 赵广, 中国科学院青岛生物能源与过程研究所
3:40PM	Conversion of Cellulosic Hydrolysates to Natural Products 霍教欣, 北京理工大学
4:10PM	Synthetic biology for natural products development: from bacteria to plant 王勇, 上海生命科学研究院
4:50PM	Poster Award