SCIENTIFIC PROGRAM

SESSION LECTURE No. 60 Synthetic biology Room: 309B		
Co-Chairs: Guoping Zhao		
Day 1 October 27 th (Saturday) 8:30 – 12:00		
Time	Speaker	Title
8:30-8:40	Guoping Zhao Shanghai Institute of Plant Phys and Ecology, Chinese Academy of Sciences, China	siology Opening Speech
8:40-9:10	Jens Nielsen Novo Nordisk Foundation Cente Biosustainability, Chalmers Univ Technology, Sweden	er for Engineering Yeast Metabolism Using versity of Synthetic Biology
9:10-9:40	Farren Issacs Yale University, USA	Genome Engineering Technologies for Programming and Recoding Organisms
9:40-10:00	Tea Break	
10:00-10:30	Harris Wang Columbia University, USA	An engineered temporal cellular memory system on CRISPR tape
10:30-11:00	Zhongjun Qin Shanghai Institute of Plant Phys CAS, China	siology, Creating a functional single chromosome yeast
11:00-11:30	Lixin Zhang molecular regulation of seconda metabolism of microorganisms laboratory, China	ary Learn from microbial intelligence for avermectins overproduction



Guoping Zhao

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Prof. Guo-Ping ZHAO is the Chairman of the Advisory Committee of CAS-Key Laboratory of Synthetic Biology at the Shanghai Institute of Plant Physiology and Ecology (SIPPE) and the Chief Scientist of the Big Data Center for BioMedicine at the CAS-MPG Partner Institute for Computational Biology (PICB), both affiliated to the Chinese Academy of Sciences (CAS) and the Director of Department of Microbiology and Microbial Engineering at the School of Life Sciences, Fudan University.



Farren Issacs

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Farren Isaacs is Associate Professor of Molecular, Cellular and Developmental Biology and Systems Biology at Yale University. As a research fellow in genetics at Harvard, he invented enabling technologies for genome engineering. His research is focused on the development of genome engineering technologies to construct altnerative genetic codes and for global reprogramming of cellular behavior to uncover new biological phenomena and expand the functions of living systems with applications in energy supply, materials science, environmental health, and medicine.



Lixin Zhang

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In 2001, he defended through the " plan to bring in outstanding foreign talents" and was employed as a researcher and doctoral supervisor by Shanghai institute of plant physiology of the Chinese academy of sciences. In 2002, he served as director of the open laboratory for research on molecular regulation of secondary metabolism of microorganisms. In 2003, he was funded by the national science fund for distinguished young people.



Jens Nielsen

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Professor Nielsen's research focus on understanding and engineering metabolism. For the latter he is using synthetic biology tools to in particular engineer the metabolism of yeast such that this cell factory can be used for efficient production of fuels, chemicals and pharmaceuticals. He is particular interested in rewiring of the central carbon metabolism of yeast in order to enable high yield and productivity of target chemicals.

Harris Wang

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Assistant Professor at Columbia University jointly appointed in the Department of Systems Biology and the Department of Pathology and Cell Biology. Dr. Wang received his B.S. degrees in Mathematics and Physics from MIT and his Ph.D. in Biophysics from Harvard University. His research group at Columbia is developing enabling synthetic biology technologies to engineer microbes that improve gut health and modify mammalian cells that better produce therapeutics. In early 2017, Dr. Wang was recognized by President Obama as a recipient of the Presidential Early Career Award for Scientists and Engineers (PECASE), which is "the highest honor bestowed by the United States Government on science and engineering professionals in the early stages of their independent research careers."

Zhongjun Qin

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Dr. Zhongjun Qin is a professor of synthetic biologyand at serves as directorof the key laboratory of synthetic biologyatShanghai Institute of Plant Physiology and Ecology (SIPPE), Chinese Academy of Sciences (CAS). He has been working on microbial molecular genetics since 1995. Currently, his laboratory is interested in synthetic biology of Escherichia coli and Saccharomyces cerevisae.