

The WLA Research Conference on Cells and Genes

Host WLA Labs

July 27 - 28, 2023 Duration: 1.5 days

Venue

WLA Shanghai Center (Shanghai Science Hall) Shanghai, China

Format

1.5-day, single-stream, on-site symposium

Participants Limit : 200 (advanced online registration + on-site registration required)

www.wrc.org.cn Registration fee: \$200 + Banquet fee: \$50 (optional)



Background

The WLA Laboratories (WLA Labs) is an independent, nonprofit research institute committed to basic research and fostering the next generation of scientific talents. Scheduled to be inaugurated this July, the WLA Labs has planned a series of academic events, including the **WLA Research Conferences (WRC)**. As an annual symposium of the WLA Labs, the **WRC** will create an open and interactive platform for scientists worldwide to freely discuss the most recent scientific discoveries and research findings. Each year, the conference will bring together experts in different areas of life science around the world, focusing on topics of current interest and debate.

Overview

The 2023 WLA Research Conference on Cells and Genes will take place on July 27 – 28, 2023, in Shanghai, and is hosted by the WLA Labs and Shanghai Jiao Tong University. The chairs of this meeting are Prof. Roger Kornberg of Stanford University and Prof. James Rothman of Yale University. Prof. Kornberg wins the 2006 Nobel Prize in Chemistry for his work on "the molecular basis of eukaryotic transcription", whereas Prof. Rothman shares the 2013 Nobel Prize in Physiology or Medicine with Prof. Randy Schekman and Prof. Thomas Südhof for his work on "how messages are transmitted inside and outside our cells." Their fundamental research has inspired many important advancements in genetics and cell biology.

The 2023 conference will feature frontier researchers in molecular and cell biology, structural biology, epigenetics, subcellular imaging, and related areas of biotechnology. It will have 6 plenary sessions, each for 90 minutes with 3 invited speakers. The conference highly encourages the latest unpublished results. Recording, photos, and videos are not permitted during the conference.

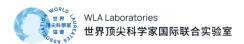
At this conference, the WLA Labs will officially announce its **Global Recruitment for Principal Investigator (PI)**. The Labs is seeking talented and vigorous PIs who conduct independent research in frontier areas. More details will be released at a later date.

Organizing Committee

Guang Yang(杨 光), Ph.D. WLA Labs

Weidong Li(李卫东), Ph.D. Shanghai Jiao Tong University Xiaohong Helena Yang(杨晓虹), Ph.D. WLA Labs / WLA Shanghai Center

Xingxu Huang (黄行许), Ph.D. WLA Labs



Ms. Ning Ma (马 宁), MBA WLA Labs *last updated: June 6, 2023* Ms. Yuhui Pei (裴育慧), M.A. WLA Labs / WLA Shanghai Center

Scientific Panel

Prof. Roger Kornberg, Chair 2006 Nobel Laureate in Chemistry; Stanford University, U.S.A.

Prof. Steven McKnight UT Southwestern Medical Center, U.S.A.

Prof. Chuan He (何川) 2023 Wolf Prize Laureate in Chemistry; HHMI / University of Chicago, U.S.A.

Prof. Yigong Shi(施一公) Westlake University, China

Agenda

Day 0

14:00 – 20:00 PM	Registration and Check-in
16:00 – 18:00 PM	WLA Labs Tour (optional)
18:30 – 20:00 PM	Reception Buffet

Day 1

08:00 - 09:00 AM	Registration and Check-in (all day)	
09:00 - 09:15 AM	Opening Remarks	
09:15 - 10:00 AM	Keynote Speech: James Rothman	
	Sterling Professor of Cell Biology, Yale University	
	Topic: Turbocharging Neurotransmitter Release	

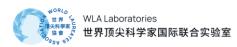
Prof. Wolfgang Baumeister Max Planck Institute of Biochemistry, Germany

2013 Nobel Laureate in Physiology or Medicine;

Prof. James Rothman, Co-Chair

Yale University, U.S.A.

Prof. Dame Carol Robinson Kavli Institute for Nanoscience Discovery, University of Oxford, UK



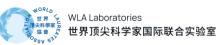
Chair:	Steven	McKnight
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Session 1:	Primitive Proteins	Chair: Steven McKnight
10:00 - 10:30 AM	UT Southwestern Medic	asic Biomedical Research, Department of Biochemistry,
10:30 - 11:00 AM	Science	Director, Max Planck Institute for Multidisciplinary a smart material for controlling transport between the
11:00 - 11:30 AM	Chemistry (IRCBC), CA	terdisciplinary Research Center on Biology and S Aggregation in Neurodegenerative Disease

11:30 – 13:00 PM

Lunch Break

Session 2:	TBD	Chair: Yigong Shi
13:00 - 13:30 PM		Speaker #1 Yigong Shi President, Westlake University Topic: <i>RNA splicing at atomic resolution</i>
13:30 - 14:00 PM		Speaker #2 Yanhui Xu Professor, Fudan University Shanghai Cancer Center, Institutes of Biomedical Sciences, Fudan University Topic: TBD
14:00 - 14:30 PM		Speaker #3 Alexey Amunts Associate Professor, Department of Biochemistry and Biophysics, Stockholm University Topic: TBD
14:30 - 15:30 PM		Poster Session / Coffee Break



Session 3: Receptor S	Signalling Across Cell Membranes Chair: Dame Carol Robinson
15:30 - 16:00 PM	Speaker #1 Dame Carol Robinson Dr Lee's Professor of Chemistry, Director, Kavli Institute for Nanoscience Discovery, University of Oxford
	Topic: From recombinant complexes in detergent micelles to receptor signaling across native membranes – The promises and pitfalls of native mass spectrometry
16:00 - 16:30 PM	Speaker #2 Georgios Skiniotis Professor of Molecular & Cellular Physiology, Professor of Structural Biology and Photon Science, Stanford University

Topic: TBD

Speaker #3 Aashish Manglik 16:30 - 17:00 PM Associate Professor of Pharmaceutical Chemistry, School of Pharmacy, UCSF Topic: TBD

18:00 – 20:00 PM

Banquet

Day 2

Session 4:	New Frontier in RNA Biology	Chair: Chuan He
09:00 - 09:30 AM	Speaker #1 Chuan He	
00.00 00.00 AM	John T. Wilson Distinguished Service Professor,	, The University of Chicago
	Topic: RNA methylation in gene expression regu	ulation
09:30 - 10:00 AM	Speaker #2 Xiao Wang	
09.50 - 10.00 AM	Thomas D. and Virginia Cabot Assistant Profess	sor of Chemistry MIT
	Core member, The Broad Institute	
	Topic: Translating spatial cell atlas to tissue function	
40.00 40.00 404		
10:00 - 10:30 AM	Speaker #3 Ling-Ling Chen	
	New Cornerstone Science Laboratory, CAS Cen	iter for Excellence in
	Molecular Cell Science, Chinese Academy of Sc	ciences (CAS)
	Topic: Lnc-ing RNA processing and function	



Session 5:	Trends in Structural Biology	Chair: Wolfgang Baumeister	
11:00 - 11:30 AM	Speaker #1 Wolfgang Baumeister		
	Director, Max Planck Institute of Biochemistry		
	Topic: Structural Biology in situ: The	Promise and Challenges of Cryo-Electron	
	Tomography		
11:30 – 12:00 PM	Speaker #2 Nenad Ban		
(Noon)) Professor of Structural Molecular Biology, ETH Zurich		
	Topic: Revealing the Remarkable Machinery for Production of Proteins in		
	Human Cells		
12:00 – 12:30 PM Speaker #3 Roger Kornberg			
	Mrs. George A. Winzer Professor of Medicine, Stanford University		
	Topic: Chromatin, Chromosomes, an	d Transcription	
12:30-12:45 PM	Closing Remarks: Roger Kornberg	l de la companya de l	

10:30 -11:00 AM

Coffee Break