SESSION LECTURE

No. 11

Molecules, Make Life more Precise-1

Room: 310

Co-Chairs: Zihe Rao  **Nieng Yan** 

Day 1 October 27th (Saturday) 13:30 – 17:30		
Time	**Speaker**	**Title**
13:30-14:00	**James H Naismith** *Oxford University, UK*	The synthesis of modified macrocylclic peptides using enzymes
14:00-14:30	**Leemor Joshua-Tor** *Cold Spring Harbor Laboratory, USA*	Mad about U: destroying the let7 pre-miRNA
14:30-15:00	**Yvonne Jones** *Oxford University, UK*	Structural biology and the molecular mechanics of cell guidance signalling
15:00-15:30	**Tea Break**	
15:30-16:00	**Dale Wigley** *Imperial College London, UK*	Structure and mechanism of the INO80 chromatin remodelling complex
16:00-16:30	**Ohad Medalia** *Zurich University, Switzerland*	The functional structure of lamins at the nuclear envelope
16:30-17:00	**Zihe Rao** *Tsinghua University, China*	Structures of the herpes simplex virus type 2 B-capsid &C-capsid with capsid-vertex-specific component
17:00-17:30	**Hongwei Wang** *Tsinghua University, China*	Single particle reconstruction of 52 kDa streptavidin by Cs-corrector-VPP coupled cryo-EM

James H Naismith

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Professor of Structural Biology at the University of Oxford, Director of the Research Complex at Harwell and cointerim academic lead of the Rosalind Franklin Institute.He was formerly Bishop Wardlaw Professor of Chemical Biology at the University of St Andrews until May 2017

Yvonne Jones

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FRS, FMedSci. Professor Jones is co-Head of the Division of Structural Biology and Interim Director of the Wellcome Centre for Human Genetics at the Nuffield Department of Clinical Medicine, University of Oxford. Within her own research group, she uses the integrative approaches of cellular structural biology to investigate the molecular mechanisms by which cells signal to each other in the human body. Her current research has two foci: cell guidance systems and modulators of Wnt signalling.

Ohad Medalia

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Ohad Medalia studied chemistry at the University of Tel-Aviv, Israel. Thereafter, he obtained his Ph.D. in organic chemistry from the Weizmann Institute in Rehovot, Israel. He conducted postdoctoral studies at the Max-Planck Institute in Martinsried, Germany in the laboratory of Wolfgang Baumeister, one of the pioneers of cryoelectronmicroscopy.

Leemor Joshua-Tor

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Prof. Joshua-Tor studies the molecular underpinnings of nucleic acid regulation. She is perhaps best known for her work revealing the inner workings of components of the gene-silencing mechanisms of RNA interference. Prof. Joshua-Tor is also well-known for her work in DNA replication discovering how a replicative helicase moves along DNA, which has had implications to molecular motors in many fields of biology.

Dale Wigley

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Professor, Section of Structural Biology, Department of Medicine, Imperial College London. Professor Dale Wigley and his team at the Imperial College London are finding out what happens when the DNA in a cell is damaged, and how the cell deals with it.

Zihe Rao

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Professor, Biophysicist and Structural Biologist, mainly engaged in the study of crystal or CryoEM structures of proteins and pathogens related to human infection, as well as in the development of innovative drug treatment. To date, Prof Rao has published 335 peerreviewed papers in international scientific journals with over 12,000 citations.

Hongwei Wang

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He is a Ph.D. from the department of bioscience and technology in Qinghua University and a research scientist from the department of life sciences of Lawrence Berkeley national laboratory in the United States. He is currently a professor and doctoral supervisor at the Tsinghua University institute of life sciences.