



ISMB Symposium 2022

Venue: JZ Young Lecture Theatre G29, Anatomy & Medical Sciences Building, UCL

Day 1, Thursday 16th June

Session 1

10.00-10.20	Introduction by Prof Finn Werner , ISMB director Opening by Dr Hazel Willis , Executive Dean, School of Science, Birkbeck
10.20-11.00	<i>Understanding Bioenergetic Processes at the Nanoscale Using CryoEM</i> Dr Karen Davies , Diamond Light Source, Didcot, UK
11.00-11.40	<i>To cleave or not to cleave: that is the question. The existential dilemmas of programmable RNA degrading enzyme</i> Dr Katarzyna Bandyra , University of Warsaw, Poland
11.40-12.00	<i>Molecular mechanisms for calcium-dependent synaptic plasticity</i> Dr Matthew Gold , ISMB, London, UK
12.00-12.20	<i>Flash talks – 2 minutes per poster</i>
12.20-13.20	Lunch break

Session 2

13.20-14.00	<i>Introducing new functionality into DNA-encoded cyclic peptide discovery systems</i> Dr Louise Walport , Imperial College London, UK
14.00-14.40	<i>Enhancer- promoter communication - is close enough, enough?</i> Prof Wendy Bickmore , University of Edinburgh, UK
14.40-15.00	<i>Flash talks – 2 minutes per poster</i>
15.00-16.30	Poster session (with coffee)

Session 3

16.30-17.10	<i>Virus-inspired designs of antimicrobial nanocapsules</i> Prof Franca Fraternali , King's College London, UK
17.10-17.50	<i>RNA-mediated regulation within protein-coding sequences</i> Dr Gisela Storz , NIH, Bethesda, USA

(Close of day 1; speakers' dinner from 19.30)



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Session 4

09.30-10.10

Unravelling RNA- and DNA-protein interactions with mass spectrometry
Prof Henning Urlaub, MPI Göttingen, Germany

10.10-10.50

The Spatial Organisation of the Transcriptome and Proteome
Prof Kathryn Lilley, University of Cambridge, UK

10.50-11.10

Coffee break

11.10-11.50

Power to the protein: analyse, build, protect with Spy superglues
Prof Mark Howarth, University of Oxford, UK

11.50-12.10

Understanding the emergence of life-like activities from simple RNA systems
Dr James Attwater, UCL Department of Chemistry, UK

12.10-13.10

Lunch break; Speaker-Student lunch

Session 5

13.10-13.30

Probing enzyme binding using time-resolved fluorescence anisotropy
Dr Thomas Blacker, ISMB, UK

13.30-13.50

Visualizing bacterial cell-cell interactions in microbial communities
Dr Brian Ho, ISMB, UK

14.00-14.20

A novel mechanism of protein misfolding observed on translating ribosomes
Dr Lisa Cabrita, ISMB, UK

14.20-15.00

New insights into protein structure and dynamics from X-ray free-electron lasers
Prof Ilme Schlichting, MPI Heidelberg, Germany

15.00-15.30

Award of best poster prize
Concluding remarks by **Prof Duncan Craig**, Director of the UCL School of Pharmacy