



ISMB Symposium, 16-17 June 2022

The 10th ISMB Symposium will take place on Thursday 16 and Friday 17 June 2022 in the JZ Young Lecture Theatre G29, Anatomy & Medical Sciences Building, UCL.

[Registration is open](#) until Friday 10 June 2022.

Programme

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

Understanding Bioenergetic Processes at the Nanoscale Using CryoEM

Dr Karen Davies, Diamond Light Source, Didcot, UK

Chair: Amandine Marechal

11.00-11.40

To cleave or not to cleave: that is the question. The existential dilemmas of programmable RNA degrading enzyme

Dr Katarzyna Bandyra, University of Warsaw, Poland

Chair: Terry Kipkorir

11.40-12.00

Molecular mechanisms for calcium-dependent synaptic plasticity

Dr Matthew Gold, ISMB, London, UK

Chair: Rebecca Brooker

12.00-13.20

Lunch break; speakers-student and post-doc chairs lunch

Session 2:

13.20-14.00

Introducing new functionality into DNA-encoded cyclic peptide discovery systems

Dr Louise Walport, Imperial College London, UK

Chair: Ashton Curtis

14.00-14.40

Enhancer-promoter communication - is close enough, enough?

Prof Wendy Bickmore, University of Edinburgh, UK

Chair: Michal Sykora

14.40-15.00

Flash talks – 2 minutes per poster

15.00-16.30

Poster session with coffee (across the lobby in the Gavin de Beer Lecture Theatre, G04 UCL Anatomy Building)

Session 3:

16.30-17.10

Virus-inspired designs of antimicrobial nanocapsules

Prof Franca Fraternali, King's College London, UK

Chair: Paul Ashford

17.10-17.50 RNA-mediated regulation within protein-coding sequences

Dr Gisela Storz, NIH, Bethesda, USA

Chair: Tine Arnvig

Day 2 - Friday 17th June

Session 4:

09.30-10.10

Unravelling RNA- and DNA-protein interactions with mass spectrometry

Prof Henning Urlaub, MPI Göttingen, Germany

Chair: Sarah Vickers

14.20-15.00

New insights into protein structure and dynamics from X-ray free-electron lasers

Prof Ilme Schlichting, MPI Heidelberg, Germany

Chair: Lauren Woodburn

10.10-10.50

The Spatial Organisation of the Transcriptome and Proteome

Prof Kathryn Lilley, University of Cambridge, UK

Chair: Aisha Ben-Younis

15.00-15.30

Award of best poster prize;

Concluding remarks

10.50-11.10

Coffee break (across the lobby in the Gavin de Beer Lecture Theatre, G04 UCL Anatomy Building)

11.10-11.50

Power to the protein: analyse, build, protect with Spy superglues

Prof Mark Howarth, University of Oxford, UK

Chair: Ryan Dowsell

11.50-12.10

Understanding the emergence of life-like activities from simple RNA systems

Dr James Attwater, UCL Department of Chemistry, UK

Chair: Chris Dulson

12.10-13.10

Lunch break; speakers-panel lunch

Session 5:

13.10-13.30

Probing enzyme binding using time-resolved fluorescence anisotropy

Dr Thomas Blacker, ISMB, UK

Chair: Snezana Djordjevic

13.30-13.50

Visualizing bacterial cell-cell interactions in microbial communities

Dr Brian Ho, ISMB, UK

Chair: Duy-Khanh Phung

14.00-14.20

A novel mechanism of protein misfolding observed on translating ribosomes

Dr Lisa Cabrita, ISMB, UK

Chair: Minkoo Ahn