

# ISMB Symposium 2022

JZ Young Lecture Theatre G29, UCL Anatomy Building (except where noted\*)

## Day 1, Thursday 16<sup>th</sup> 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

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**10.20-11.00** *Understanding Bioenergetic Processes at the Nanoscale Using CryoEM*  
**Dr Karen Davies**, Diamond Light Source, Didcot, UK  
Chair: Amandine Marechal

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**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

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**11.40-12.00** *Molecular mechanisms for calcium-dependent synaptic plasticity*  
**Dr Matthew Gold**, ISMB, London, UK  
Chair: Rebecca Brooker

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**12.00-13.20** **Lunch break**; speakers and 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

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**14.00-14.40** *Enhancer- promoter communication - is close enough, enough?*  
**Prof Wendy Bickmore**, University of Edinburgh, UK  
Chair: Michal Sykora

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**14.40-15.00** *Flash talks – 2 minutes per poster*

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**15.00-16.30** **Poster session** \*in Gavin de Beer Lecture Theatre G04 (with coffee)

### Session 3

**16.30-17.10** *Virus-inspired designs of antimicrobial nanocapsules*  
**Prof Franca Fraternali**, King's College London, UK  
Chair: Paul Ashford

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**17.10-17.50** *RNA-mediated regulation within protein-coding sequences*  
**Dr Gisela Storz**, NIH, Bethesda, USA  
Chair: Tine Arnvig

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(Close of day 1; Speakers' Dinner from 19.30)

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## Day 2, Friday 17<sup>th</sup> June

### Session 4

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- 09.30-10.10** *Unravelling RNA- and DNA-protein interactions with mass spectrometry*  
**Prof Henning Urlaub**, MPI Göttingen, Germany  
Chair: Sarah Vickers
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- 10.10-10.50** *The Spatial Organisation of the Transcriptome and Proteome*  
**Prof Kathryn Lilley**, University of Cambridge, UK  
Chair: Aisha Ben-Younis
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- 10.50-11.10** **Coffee break** \*in Gavin de Beer Lecture Theatre G04
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- 11.10-11.50** *Power to the protein: analyse, build, protect with Spy superglues*  
**Prof Mark Howarth**, University of Oxford, UK  
Chair: Ryan Dowsell
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- 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
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- 12.10-13.10** **Lunch break**; speakers and panel lunch

### Session 5

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- 13.10-13.30** *Probing enzyme binding using time-resolved fluorescence anisotropy*  
**Dr Thomas Blacker**, ISMB, UK  
Chair: Snezana Djordjevic
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- 13.30-13.50** *Visualizing bacterial cell-cell interactions in microbial communities*  
**Dr Brian Ho**, ISMB, UK  
Chair: Duy Khanh-Phung
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- 14.00-14.20** *A novel mechanism of protein misfolding observed on translating ribosomes*  
**Dr Lisa Cabrita**, ISMB, UK  
Chair: Minkoo Ahn
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- 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
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- 15.00-15.30** Award of best poster prize  
Concluding remarks