

eBIC Opening & CCP-EM Spring Symposium III

Monday 24th April: eBIC Opening

All lectures in R22 Pickavance

- 09:30: Registration & coffee (DLS atrium)
- 10:50: Opening introduction
- 11:00: Yifan Cheng (UCSF School of Medicine)
TRPV1 in nanodisc by single particle cryo-EM
- 11:30: John Briggs (MRC-LMB)
Determining protein structures with cryo-electron tomography
- 12:00: Lori Passmore (MRC-LMB)
Structure determination of multi-protein complexes on new cryo-EM supports
- 12:30: Group photo / Lunch (atrium)
- 14:00: Radostin Danev (Max Planck Institute of Biochemistry)
Phase plates expand the capabilities of cryo-EM
- 14:30: Greg McMullan (MRC-LMB)
The importance of electron imaging detectors in cryo-EM
- 15:00: Sharon Wolf (Weizmann Institute of Science)
CryoSTEM tomography of vitrified intact human cells; simultaneous ultrastructural and chemical characterisation in 3D
- 15:30: Tour eBIC / EM poster session (atrium)
- 18:00: Depart for hotels
- 19:30: Speakers Dinner (Milton Hill House)



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Tuesday 25th April: Spring Symposium

All lectures in R22 Pickavance

8:45: Registration (DLS atrium)

9:30: Welcome & what's new in CCP-EM, eBIC & EMDB

10:30: Coffee (atrium)

11:00: Maya Topf (Birkbeck)

Fitting and Validation of Atomic Models in 3D-EM Maps at Multiple Resolutions

11:45: Tristan Croll (University of Cambridge)

ISOLDE: a next-generation environment for interactive model building in low-resolution maps

12:30: Lunch (atrium)

14:00: Rob Nicholls (MRC-LMB)

Fitting models into cryo-EM maps

14:45: Paul Adams (Lawrence Berkeley Laboratory)

New Tools in Phenix for the Interpretation of Cryo-EM Maps

15:30: Coffee break (atrium)

16:00: Ausra Domanska (University of Helsinki)

High-resolution structure of an emerging picornavirus causing neonatal sepsis

16:45: Piet Gros (Utrecht University)

Activation and regulation of the complement system

17:30: Depart for Milton Hill House

19:00: Pre-dinner drinks (Milton Hill House)

19:30: Conference dinner (Milton Hill House)



eBIC Opening & CCP-EM Spring Symposium III

Wednesday 26th April: Spring Symposium

All lectures in R22 Pickavance

- 8:30 : Arrival (DLS atrium)
- 9:30: Erik Lindahl (SciLifeLab)
Recent advances in computational reconstruction and density fitting
- 10:15: Tanmay Bharat (MRC-LMB / University of Oxford)
Structural biology in situ: atoms to cells
- 11:00: Coffee (atrium)
- 11:30 : Carolyn Moores (Birkbeck)
Molecular strategies for regulating microtubule dynamics
- 12:15 : Morgan Beeby (Imperial College London)
Studying the evolution of macromolecular machines using high-throughput electron cryo-tomography
- 13:00 : Lunch (atrium)
- 14:00 : David Waterman (STFC)
DIALS for ED: adapting X-ray software for electron diffraction integration
- 14:45 : Becky Thompson (University of Leeds)
Cryo Electron Microscopy at Leeds
- 15:30 : Coffee (atrium)
- 16:00 : Kay Grunewald (University of Oxford)
TBA
- 16:45 : Close

