

CCPN

CCPN Conference 2022

University of Bath, UK
20th-22nd July 2022

with sponsorship from

MERCK



Wednesday 20th July

7:30-8:45 Breakfast for those staying Tuesday night *Claverton*

Workshop *Chancellors', level 3, room 3.6*

9:00-12:00 CcpNmr Analysis V3 Workshop

Registration *Chancellors', level 2*

11:00-13:30 Registration & Check-in

12:30 Lunch *Claverton*

Plenary Session *Chancellors', level 2, lecture theatre*

13:30 **Helen Mott** (University of Cambridge)
Welcome

Scientific Session 1: Sparse Data and AlphaFold

Session Chair: **Uli Schwarz-Linek** (University of St Andrews)

13:40 **Jonas Adler** (DeepMind)
AlphaFold 2

14:20 **Nick Fowler** (University of Leicester)
The accuracy of protein structures in solution determined by AlphaFold and NMR

14:45 **Angus Robertson** (University of Lund)
Structural biology on large systems - NMR, AlphaFold, and RDCs

15:10 Tea/Coffee Break *Chancellors', level 2*

15:40 **Theresa Ramelot** and **Guy Montelione** (Rensselaer Polytechnic Institute, Troy NY) *online*
AlphaFold Models of Small Proteins Rival the Accuracy of Solution NMR Structures: the role of NMR in structural biology after the advent of AlphaFold and RosettaFold

16:15 **Discussion**

16:45 **Poster Flash Talks**

CCPN Update and Assembly Meeting

17:00 **Ruth Pritchard** and **Angus Robertson**
An update from the new ICMRBS ECR Committee

17:05 **Geerten Vuister** and **Vicky Higman**
CcpNmr Analysis Version 3.1.0 and beyond

17:35 **Helen Mott** and **Brian Smith**
CCPN Assembly Meeting

Poster Session 1

Chancellors', level 2

18:15 Presentation of odd-numbered Posters

19:30 Dinner

Claverton

Thursday, 21st July

7:30-8:45 Breakfast *Claverton*

Plenary Session *Chancellors', level 2, lecture theatre*

8:55 Meeting Starts

Scientific Session 2: Large Complexes

Session Chair: **Józef Lewandowski** (University of Warwick)

9:00 **Theo Karamanos** (University of Leeds)
Large chaperone complexes through the lens of NMR spectroscopy

9:40 **Eszter Najbauer** (MPI Göttingen)
Living on the edge of solids and liquids: the selective hydrogel at the heart of nucleocytoplasmic transport

10:05 **Florent Delhommel** (Technical University of Munich)
Integrative study of NudC, a co-chaperone involved in the regulation of Hsp90 client-folding activity

10:30 Tea/Coffee Break *Chancellors', level 2*

11:00 **Agnes Adler** (Utrecht University)
An NMR view of the dynamic Microtubule surface

11:25 **Discussion**

11:55 **Poster Flash Talks**

12:15 Packed lunches available for collection *Chancellors', level 2*

Walks

meet outside Chancellors'

13:00 Choice of long and short walks

Poster Session 2

Chancellors', level 2

18:15 Presentation of even-numbered Posters

19:30 Conference Dinner

Claverton

Including presentation of Poster Prizes sponsored by Merck

Friday 22nd July

7:30-8:45 Breakfast Claverton

*Please check out of your rooms by 10:00
Luggage can be stored in Chancellors', level 3, room 3.1*

Plenary Session *Chancellors', level 2, lecture theatre*

8:55 Meeting Starts

Scientific Session 3: Flexibility

Session Chair: **Michael Plevin** (University of York)

9:00 **Magnus Kjaergaard** (University of Aarhus) *online*
Intrinsically disordered linkers as regulators of biochemistry

9:40 **Laura Mariño Pérez** (University of the Balearic Islands, Mallorca)
The use of nuclear magnetic resonance spectroscopy and X-ray crystallography for visualizing protein breathing motions associated with aromatic ring flipping

10:10 **Janet Kumita** (University of Cambridge)
Investigating the impact of folded domains on IDP-mediated liquid-liquid phase separation

10:40 Tea/Coffee Break *Chancellors', level 2*

11:10 **Rebecca Beveridge** (University of Strathclyde)
Ion mobility mass spectrometry insights into dynamic protein complexes and conformations

11:40 **Discussion**

12:00 **Discussion Overall Meeting** and **Closing Remarks**

12:15 Lunch Claverton