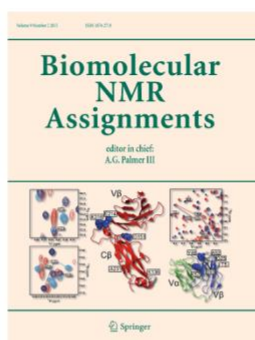


CCPN

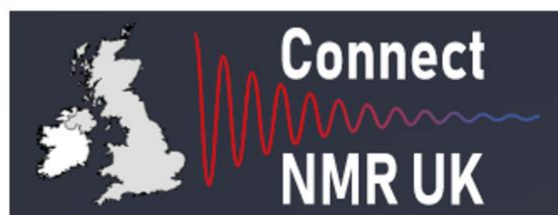
CCPN Conference 2024

University of Kent, UK
10th-12th July 2024

with sponsorship from



Medical
Research
Council



Wednesday 10th July

7:45-8:55 Breakfast for those staying Tuesday night *Keynes, Dolce Vita*

Workshop *Grimond, Seminar Room 3*

9:00-12:00 CcpNmr Analysis V3 Workshop with tea/coffee break

Registration *Grimond Foyer*

11:00-13:30 Registration & Check-in
Rooms available from 15:00

12:30 Lunch *Grimond Foyer*

Plenary Session *Grimond, lecture theatre 1*

Join Zoom Meeting

Meeting ID:

Passcode:

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

Scientific Session 1: Metabolomics

Session Chair: **Joern Werner** (University of Southampton)

13:40 **Marie Phelan** (University of Liverpool)
An Introduction to NMR Metabolomics; special considerations for non-polar (lipid) metabolites and unusual sample types

14:20 **Jonathan Swann** (University of Southampton)
Decoding the biochemical cross-talk between the microbiome and genome using ¹H NMR spectroscopy

14:50 **Christian Ludwig** (University of Birmingham)
Beyond 1D-NMR spectroscopy: Tracing cellular metabolism

15:20 Tea/Coffee Break *Grimond Foyer*

15:50 **Fay Probert** (University of Oxford)
NMR metabolomics coupled with dimension reduction methods to
diagnose neurological diseases

16:20 **Discussion**

CCPN Update and Assembly Meeting

16:50 **Geerten Vuister** and **Vicky Higman**
CCPN Update

17:20 **Helen Mott** and **Brian Smith**
CCPN Assembly Meeting

Poster Session 1 *Grimond Foyer*

18:00 Presentation of odd-numbered Posters

19:30 Dinner *Keynes, Dolce Vita*

Thursday, 11th July

7:45-8:55 Breakfast *Keynes, Dolce Vita*

Plenary Session *Grimond, lecture theatre 1*

Join Zoom Meeting

Meeting ID:

Passcode:

8:55 Meeting Starts

Scientific Session 2: Ultra-high field NMR

Session Chair: **Matt Cliff** (University of Manchester)

9:00 **Trent Franks** (University of Warwick)
Biological NMR at the UK High-Field Solid-State NMR National Research Facility

9:40 **Marco Schiavina** (University of Florence)
¹³C-detection at Ultra High Field: A powerful tool for investigating IDPs

10:10 **Vaibhav Shukla** (University College London)
Intrinsic Dynamics Studied by Ultra High-Field NMR Dictate Histone Deacetylase Activity and Inhibition

10:40 Tea/Coffee Break *Grimond Foyer*

11:10 **Birgit Habenstein** (CNRS Bordeaux)
Biomolecular assemblies at the atomic scale studied by (high-field) solid-state NMR

11:40 **Discussion**

12:15 Packed lunches available for collection *Grimond Foyer*

Walks

meet outside Keynes

13:00 Bus to Wye with choice of long and short walks

Poster Session 2

Grimond Foyer

18:00 Presentation of even-numbered Posters

19:30 Conference Dinner

Keynes, Dolce Vita

Including presentation of Poster Prizes

Friday 12th July

7:45-8:55 Breakfast *Keynes, Dolce Vita*

*Please check out of your rooms by 11:00
Luggage can be left in one of the Grimond seminar rooms.*

Plenary Session *Grimond, lecture theatre 1*

Join Zoom Meeting

Meeting ID:

Passcode:

8:55 Meeting Starts

Scientific Session 3: RNA

Session Chair: **Mark Bostock** (AstraZeneca) and Cyril Dominguez (University of Leicester)

9:00 **Teresa Carlomagno** (University of Birmingham)
Methods for structure determination of RNA and RNA-protein complexes by solid-state NMR

9:40 **Celestine Chi** (AstraZeneca Gothenburg)
The vital role of NMR in analyzing Nucleic Acids' structure and dynamics for small molecule drug discovery advancements

10:10 **Giancarlo Abis** (King's College London)
Using NMR to solve the RNA-binding proteins conundrum

10:40 Tea/Coffee Break *Grimond Foyer*

11:10 **Hesna Kara** (University of Leicester)
2'-¹⁹F labelling of ribose in RNAs: a tool to analyse RNA/protein interactions by NMR in physiological conditions

11:40 **Discussion**

12:10 **Discussion Overall Meeting and Closing Remarks**

12:30 Lunch *Grimond Foyer*

Symposium: 25 years biological NMR at the University of Kent

Plenary Session

Grimond, lecture theatre 1

Join Zoom Meeting

Meeting ID:

Passcode:

25 years of biological NMR at the University of Kent

- 13:30 **Gary Thompson** (University of Kent)
Welcome / Introduction
- 13:40 **Sam Lodge** (Murdoch University, Perth) *online*
NMR Spectroscopy generated biomarkers of inflammation
- 14:05 **Jane Wagstaff** (MRC LMB Cambridge)
Searching for order in disorder
- 14:30 **Lorena Varela-Alvarez** (University of Kent)
A talin variant compromises integrin activation and associates with multifaceted clinical symptoms
- 14:55 Tea/Coffee Break *Grimond Foyer*
- 15:30 **Joseph Cassar** (University of Birmingham)
PIN1 isomerises key sites in the BRCA/BARD heterodimer to promote replication fork protection
- 15:55 **Tasos Tsaousis** (University of Kent)
Understanding the function of the gut microbiome through NMR metabolomics
- 16:20 **José Ortega-Roldán** (University of Kent)
From exploiting protein dynamics for the development of new drugs, to the design of methods to monitor drug uptake
- 16:45 Close & Drinks *Grimond Foyer*