

NMR Discussion Group December Meeting 2023

Thursday the 14th of December 2023

The Royal Society of Chemistry, Burlington House, London, W1J 0BD

10:00 – 10:25 Registration and refreshments

Morning session

10:25 – 10:30 **Flemming Hansen**
Introduction and welcome

10:30 – 11:10 **G. Marius Clore, NIDDK, National Institutes of Health, USA**
“Using NMR to quantitatively probe mechanisms of fibril formation: huntingtin, amyloid β 42 and Hsp104.”

11:10 – 11:35 **Callum Gater, University of York**
“NMR Crystallography of Organic Anode Materials for Lithium- and Sodium-Ion Batteries”

11:35 – 12:05 **Fay Probert, University of Oxford**
“NMR based metabolomics to probe small molecule chemical pathways in the brain”

12:05 – 12:35 **Ilya Kuprov, University of Southampton**
“The wild and wonderful world of ^{19}F NMR: a computational perspective”

12:40 – 14:00 Lunch

Afternoon session

14:00 – 14:15 **Andrew Gibbs, Treasurer of NMRDG**
“NMRDG Business”

14:15 – 14:45 **John Griffin, Lancaster University**
“Investigating Structure and Dynamics in Confined Photoswitches by Solid-State NMR”

14:45 – 15:15 **Galina Pavlovskaya, University of Nottingham**
“Exploring Diabetes, Osteoarthritis, and Long COVID: Novel Insights from ^{23}Na MRS/MRI and Hyperpolarized ^{129}Xe Lung Imaging”

15:15 – 15:40 **Emma Gates, University of Manchester**
“Solvent suppression in pure shift NMR methods”

15:40 – 16:20 **Pramodh Vallurupalli, Tata Institute of Fundamental Research, India**
“Exploring the Free Energy Surface of Proteins using CEST NMR Experiments”

16:20 – 16:30 **Closing remarks: Melanie Britton, Chair of NMRDG**

16:30 – Refreshments and departure