

NMR Discussion Group Spring Meeting. Cambridge 10th and 11th April 2014

Wednesday 9th April 2014

14:00 Check in at Downing College and St Catharine's College from 14:00 (Porters' Lodge)

Thursday 10th April 2014

08:00 09:00 Breakfast for those staying at Downing or St Catharines

10:00 13:15 Registration at Chemistry from 10:00 (bag drop available at Chemistry)

14:00 Check in at Downing College and St Catharine's College from 14:00 (Porters' Lodge)

Scientific session 1: Bristol Meyers Squibb Lecture Theatre, Department of Chemistry

13:25 13:30 **Welcome**

13:30 13:35 **Jennifer Potts** *Iain Campbell remembered*

13:35 14:15 **Gerhard Wagner** *NMR studies of integral membrane proteins*

14:20 14:50 **Bernd Reif** *Amyloid Aggregates and Large Soluble Protein Complexes*

14:55 15:25 **Claudio Dalvit** *Recent developments in ^{19}F NMR spectroscopy for fragment screening and drug design*

15:30 16:00 Tea (Wolfson practical laboratory)

16:00 16:20 **Roberto Buratto** *Beyond the millimolar range: measuring ultra-weak ligand-protein affinities using NMR of long-lived states*

16:20 16:40 **Wing Ying Chow** *Applying a solid-state NMR approach to probe atomic changes in collagen matrices in health and disease*

16:40 17:10 **Jennifer Potts** *Molecular interactions in staphylococcal infections*

17:15 17:45 **Thomas Prisner** *Advances in high field DNP and EPR*

17:50 19:30 Wine reception and posters (Wolfson practical laboratory)

19:30 20:30 Cafeteria Dinner at Downing College (if booked)

Friday 11th April 2014

08:00 09:00 Breakfast for those staying at Downing or St Catharines

09:30 Checkout: **rooms MUST be vacated by 09:30** (bag drop available at Chemistry)

Scientific session 2: Bristol Meyers Squibb Lecture Theatre, Department of Chemistry

09:00 09:30 **Sjors Scheres** *Recent advances in high-resolution cryo-EM structure determination*

09:35 10:05 **Torsten Herrmann** *Turning failure into success: New perspectives for unsupervised NMR studies of proteins*

10:10 10:30 **Justin Lecher** *Analysis of the ion channel gating mechanism in solution by NMR spectroscopy*

10:30 11:00 Coffee (Wolfson practical laboratory)

11:00 11:30 **Elisabetta Chiarparin** *Fragment based drug discovery: challenges and opportunities*

11:35 11:55 **Hiroki Takahashi** *Dynamic nuclear polarisation enhanced solid-state NMR spectroscopy and magnetic resonance force microscopy for structural biology*

11:55 12:15 **Peter Schmidt** *The Structure of Neuropeptide Y bound to its G protein-coupled Y2 receptor*

12:15 13:45 Lunch at Downing College - this is a served meal so please move swiftly over to Downing

13:45 14:15 **Mario Schubert** *Insights into protein-carbohydrate recognition by NMR spectroscopy*

14:20 14:40 **Christopher Waudby** *Mapping the co-translational folding energy landscape of the ddFln5 immunoglobulin domain*

14:40 15:05 **Andrew Baldwin** *NMR spectroscopy, mass spectrometry and electron microscopy elucidate the structure and dynamics of α B-crystallin oligomers*

15:10 15:50 **Ad Bax** *Probing motions and structural rearrangements by RDCs*

15:55 Tea & Close (Wolfson practical laboratory)