

MR 2012, Oslo: Program

Tuesday, January 10th 2012

08.00 - 09.00	Registration and Coffee
09.00 - 09.10	Welcome (Prof. Svein Stølen, head of the Dept of Chemistry, University of Oslo)
Session: NMR in Metabolomics (Chair: Daniel Sachse)	
09.10 - 10.00	Plenary Lecture. General Introduction, illustrated by presentation: NMR based Metabonomics approach: from food quality control to clinical applications (Eberhard Humpfer, Bruker Biospin)
10.00 - 10.20	Cancer tissue metabolomics (Tone Frost Bathen, NTNU)
10.20 - 10.50	Coffee Break
10.50 - 11.10	¹³ C NMR spectroscopy elucidates novel biochemical pathways in the brain (Bjørnar Hassel, OUS / NDRF)
11.10 - 11.25	NMR profiling of biofluids (Daniel Sachse, UiO/OUS)
11.25 - 11.45	NMR Spectroscopy in Identification of Secondary Metabolites (Karl Egil Malterud, UiO)
11.45 - 12.45	Lunch
Session: Clinical and Preclinical MR Imaging and Spectroscopy (Chair: Ingrid Gribbestad)	
12.45 - 13.35	Plenary Lecture. General Introduction, followed by presentation: MRI and the human brain (Renate Grüner, Haukeland University Hospital / University of Bergen)
13.35 - 13.55	Using MRI and MRS for studying cancer treatment in animal models (Ingrid Gribbestad, NTNU)
13.55 - 14.15	Diffusion-weighted MRI - basic principles and clinical applications (Therese Seierstad, OUS)
14.15 - 14.45	Coffee Break

Session: Marine, Biomolecular and Bioactive Molecule NMR (Chair: Chris Miles)	
14.45 - 15.25	Plenary Lecture. General Introduction, followed by presentation: NMR studies of phospholipid bilayers and brain tissue (Willy Nerdal, UiB)
15.25 - 15.45	NMR in Mycochemistry (Silvio Uhlig, NVI)
15.45 - 16.05	NMR studies of small antimicrobial peptides (Johan Isaksson, UIT)
15.05 - 16.20	Rangiputamide from <i>Prorocentrum lima</i> : Structure elucidation by NMR (Chris Miles, NVI)
16.20 - 16.40	Real-Life Possibilities for Parallel Receivers in Liquids NMR (Dimitris Argyropoulos, Agilent Technologies)
16.50 - 18.30	Excursions to the MR labs
18.30 - 19.30	Poster Session
20.00 -- -	Conference Dinner

Wednesday, January 11th 2012

08.30 - 09.30	Registration
08.30 - 09.30	General Assembly of the Norwegian Society for Magnetic Resonance
Session: NMR on Solid and Porous Material (Chair: Eddy W. Hansen)	
09.30 - 10.20	Plenary Lecture. General Introduction, illustrated by presentation: NMR Spectroscopy of Solid and Soft Materials (Dick Sandstrøm, Bruker Biospin)
10.20 - 10.40	Easy Access to the Comonomer Content in Ethene/ α -Alkene Copolymers Using Solid State ¹ H-MAS NMR Spectroscopy (Eddy W. Hansen, UiO)
10.40 - 11.00	Ageing of XLPE probed by High MAS ¹ H-NMR and Relaxation (Jobby Paul, UiO)
11.00 - 11.30	Coffee Break
11.30 - 11.50	Defects and Si/Al ratios in CHA type zeolites (Bjørnar Arstad, SINTEF)

11.50 - 12.10	Using Diffusion-weighted NMR to Characterize Porous Media. (John Georg Seland, UiB)
12.10 - 12.30	Progress and Challenges in Proton NMR of Solids: Fast Spinning, Multipulse Sequences, Indirect Detection (Vadim Zorin, Agilent Technologies)
12.30 - 13.30	Lunch
Session: Macromolecular NMR (Chair: Anne Spurkland)	
13.30 - 13.35	Announcement of the Poster Prize
13.35 - 14.15	Plenary Lecture. General Introduction, followed by presentation: A vitellogenin polyserine cleavage site: highly disordered conformation protected from proteolysis by phosphorylation (Øyvind Halskau, UiB)
14.15 - 14.35	NMR investigations of structural and functional properties of Co-containing mammalian methionine sulfoxide reductase B1 (Olena Dobrovolska, NTNU)
14.35 - 14.50	The intriguing Cyclophilin A -HIV-1 Vpr interaction: prolyl cis/trans isomerisation catalysis and specific binding (Torgils Fossen, UiB)
14.50 - 15.20	Coffee Break
15.20 - 16.00	Insights to enzymatic mechanism of Chitin-binding protein 21 (CBP 21) <i>Serratia marcescens</i> by NMR spectroscopy (Finn Aachmann, NTNU)
16.00 - 16.15	Structural analysis of the conserved ubiquitin-binding motifs (UBMs) of the translesion polymerase ι in complex with ubiquitin (Daniel Burschowski, UiO)
16.15 - 16.30	Protein-protein interaction in T cell signalling (Anne Spurkland, UiO)
16.30 - 16.40	Closing remarks