

40th Danish NMR meeting

January 21st-22nd 2019

*Musholm Konference Center
Musholmsvej 100, 4220 Korsør*

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PROGRAMME

International invited speakers underlined

Monday January 21st

11:00 – 12:00 JEOL USER'S MEETING (Optional)

12:00 – 13:00 Lunch

13:00 – 15:00 Session 1 (Chair: Kresten Lindorff-Larsen)

13:00 Welcome by the Organizers

13:10 **"Solid-state NMR combined with cryo-EM to determine the structure of a large enzyme", Paul Schanda, Institute Biologic Structurale, Grenoble**

13:55 "Digital filters use in automating diffusion NMR", Andrew Benie, Novo Nordisk A/S

14:20 "Computational assignment of solid state NMR studies of paramagnetic metal-organic complexes", Anders Bruhn Arndal Andersen, Syddansk Universitet

14:35 "19F-amino acids as an alternative to fluorophore labelling in studies of cell-penetrating peptides", Malene Vinther Christensen, University of Copenhagen

14:50 "Identifying Unknown Structures using Predicted 13C NMR Spectra and Known Structure Resources", Dimitris Argyropoulos, ACD/Labs

15:00 – 15:15 Coffee

15:15 – 17:00 Session 2 (Chair: Frans Mulder)

15:15 **"Conformational exchange dynamics revealing allosteric signaling pathways and ligand binding mechanisms", Mikael Akke, Lund University, Sweden**

16:00 "Exploring NMR spectroscopy in chemical biology", Charlotte Held Godtfredsen,

16:25 "Structural and functional background for cardiac arrhythmia caused by the F141L mutation in Calmodulin", Christian Holt, Aalborg University

16:40 Sponsor presentation, Air Liquide

16:50 **"Celebrating the 40th Danish NMR Meeting", Klaus Bock**

17:25- 19:00 Science and Cocktails – PhD/MSc presentations and posters

19:00 Dinner and Dance

Tuesday January 22nd

9:00 – 10:30 Session 3 (Chair: Ulla Gro Nielsen)

9:00 "Human domesticated retroviral GAG proteins", Kaare Teilum, University of Copenhagen

9:25 "Rheo-NMR: applications of NMR microscopy and spectroscopy for the characterization of complex fluids", Boris Alban Gouilleux

9:45 "False positives in hydrogen exchange protection revealed by co-solute PRE: The C-terminus of alpha-synuclein is not shielded from solvent", Rupashree Dass, Aarhus University

10:10 Ullrich Koch, Magritek A/S

10:20 "News from Bruker – an overview", Jens Christian Madsen, Bruker Nordic AB

10:30 – 11:00 Coffee

11:00 – 12:00 Session 4 (Chair: Charlotte Held Gotfredsen)

11:00 **"_Clinical Translation of Hyperpolarized MR – recent advances in dissolution Dynamic Nuclear Polarization", Jan Henrik Ardenkjær-Larsen, DTU, Denmark**

11:45 "SISPI Analysis", Anders Bodholt Nielsen, Aarhus University

12:00 – 13:00 Lunch

13:00 – 14:30 Session 5 (Chair: Reinhard Wimmer)

13:00 **"New theory and methods for spin relaxation in macromolecules", Art Palmer, Columbia University, USA**

13:45 "Quantification of Silicone oil and its degradation products by ¹H-NMR spectroscopy", Joan Malmstrøm, Novo Nordisk A/S

14:00 "Assignment of ²⁷Al resonances in zeolites - keep it simple?", Jørgen Skibsted, Aarhus University

14:15 "Speeding up structural elucidation with NMR", Adolfo Botana, JEOL

14:25 Goodbye, the Organizers.

15:00 – 16:00 BRUKER USER'S MEETING "Hardware, software, and service news" (Optional)

Posters

1	Aneta Lenard, <i>Miss</i>	UCPH	The structure and dynamics of the growth hormone receptor extracellular domain - what are we missing?
2	Chengxin Li, <i>PhD student</i>	DTU	Structural elucidation of capsular polysaccharides from <i>Streptococcus pneumoniae</i> serotype 16F and 16A
3	Gaston Courtade, <i>Dr.</i>	NTNU	Structural and functional insights into the mode of action of a modular lytic polysaccharide monooxygenase
4	Idd Christensen, <i>MSc student</i>	NTNU	Characterization of minimal LPMO by NMR
5	Joan Malmstrøm, <i>Principal Scientist</i>	NN A/S	Analytical support for chemical process development at Novo Nordisk A/S
6	Katja Desiree Pedersen, <i>PhD student</i>	DTU	Exploring functionalized graphene as alignment media in NMR
7	Katrine Bugge, <i>Postdoc</i>	UCPH	Does the association of the IDP ProT α with the globular domain of H1 occur without support from persistent contacts?
8	Kim Søholm Halskov, <i>Research scientist</i>	NN A/S	Analytical support for chemical process development at Novo Nordisk A/S
9	Laura Lundehøj, <i>PhD student</i>	SDU	A combined solid state NMR and PXRD study of the phosphate uptake by LDHs
10	Laura Schmidt Arenkiel	AU	³¹ P SUPER NMR for determination of lipid dynamics in vesicles
11	Lasse Staby, <i>PhD student</i>	UCPH	Does order-disorder interplay control the ensemble distribution of $\alpha\alpha$ -hub domain RST?
12	Luiz Ferreira Neves Junior, <i>PhD student</i>	DTU	Evaluation of increased spectral dispersion in NMR using nanoparticles
13	Malene Sønnichsen, <i>PhD student</i>	AU	Novel Assay To Study Drug Binding To Human Serum Albumin
14	Marta Børve, <i>MSc student</i>	NTNU	Characterization of mannuronan C-5 epimerase reaction kinetics using NMR
15	Mikkel Madsen, <i>PhD student</i>	DTU	Investigation of the binding between Beta-lactoglobulin and designed alginate oligosaccharides
16	Pernille Seiffert, <i>MSc student</i>	UCPH	Cellular order by disorder
17	Sarah Wittmann, <i>MSc student</i>	SDU	Multinuclear NMR investigations of waterglasses
18	Sheng-Yu Yang, <i>PhD student</i>	AU	The role of aluminum in calcium-silicate-hydrate phases: A multinuclear solid-state NMR investigation
19	Shuai Nie, <i>Post Doc</i>	AU	Mg substitution in CaO-Al ₂ O ₃ -SiO ₂ glasses studied by ²⁵ Mg, ²⁷ Al and ²⁹ Si MAS NMR
20	Thanussan Tharumathas, <i>MSc Student</i>	AU	Proton exchange rate determination of unfolded T4 lysozyme with NMR
21	Theodorus Felix Darpieto Abik, <i>MSc student</i>	AU	NMR Lipidomics for Milk Lipids
22	Thomas Biedenbänder, <i>MSc student</i>	AU	Preparation of isotope labeled Initiator-tRNA(fMet) from E. coli for NMR analysis
23	Yulian Gavrilov, <i>Postdoc</i>	UCPH	An NMR Confirmation for Increased Folded State Entropy by Loop Truncation

