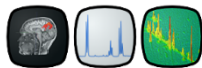


Norsk selskap for magnetisk resonans

Norwegian Society for Magnetic Resonance



UNIVERSITY OF BERGEN  
*Faculty of Science and Technology*

# MR 2025 — the 18th biennial conference of the Norwegian Society for Magnetic Resonance

## Day 1, Monday May 26

10:00–11:30 Registration  
11:30–12:30 Lunch  
12:30–12:35 Opening remarks

### Session 1: MRI

12:35–13:15 **Keynote 1: Frank Riemer, Haukeland University Hospital:** X-nuclei and friends:  $^{23}\text{Na}$ -imaging  
13:15–13:35 **Magnus Svensen, UiB:** Phosphorus Magnetic Resonance Spectroscopy of Neurodegenerative Disorders  
13:35–13:55 **Gunnhild Ager-Wick, UiB:** Enhanced Glioma Tumor Diagnostic with 3D printed Quality Assurance Phantom: GlioGuard  
13:55–14:15 **Vera Jane Erchinger, UiB:** Effects of electroconvulsive therapy on the brain studied with magnetic resonance techniques

14:15–14:45 Coffee break

### Session 2: Liquid-state NMR 1

14:45–15:25 **Keynote 2: Katja Petzold, Uppsala University:** Dancing RNA: How structural changes determine function  
15:25–15:45 **Kristian Sørnes, UiO:** Conquering Signal Overlap with PSYCHE and GEMSTONE: New Tools for Structure Elucidation

15:45–16:00 Coffee break

16:00–16:20 **Tobias Rindfleisch, UiB:** Interpreting NMR Relaxation through Molecular Dynamics Simulations  
16:20–16:40 **Agnes Beenfeldt Petersen, NTNU:** Alginate Lyases – How NMR revealed a new activity  
16:40–17:00 **Torgils Fossen, UiB:** From viral proteins to antiviral natural products

17:00–18:00 Poster session: Vote for best poster

18:00–18:30 **Keynote 3: Frode Rise, UiO:** Time that you spend thinking about and remembering the past – People, Places, Molecules, and NMR-Spectrometers

18:30–19:00 General Assembly for NSMR  
19:00–21:00 Dinner

## Day 2, Tuesday May 27

07:30–08:30 Breakfast

### Session 3: Solid-state NMR

08:30–09:10 **Keynote 4: Daniel Topgaard, Lund University:** Solid-state NMR studies of biomembranes

09:10–09:30 **Alexey Nesterenko, UiB:** Solid-state NMR measurements of segmental order parameters of anionic lipids in lamellar phase.

09:30–09:50 **Bjørnar Arstad, SINTEF, Oslo:** A step further in understanding Na dynamics in  $\text{Na}_2\text{Zn}_2\text{TeO}_6$  by synchrotron XRD and solid-state NMR analyses

09:50–10:20 Coffee break

### Session 4: Liquid-state NMR 2

10:20–10:40 **Øyvind Halskau, UiB:** Exploring the dynamics and structural context of the von Willebrand Factor, a domain of honey bee Vitellogenin.

10:40–11:00 **Alexander Hannasvik, NTNU:** Uncovering the complex structure of fucoidan, a heterogeneous marine polysaccharide

11:00–11:20 **Susanne Hansen Trøøyen, NTNU:** NMR perspectives on the substrate selectivity of a multivalent carbohydrate-binding module (CpCBM92A)

11:20–11:40 **Johan Isaksson, UiT:** inNMR – an innovative NMR tube insert that enables new types of NMR experiments

11:40–12:00 **Dick Sandström, Bruker Nordic AB:** NMR Update from Bruker

12:00–12:15 Closing and Award for best student presentation

12:15–13:15 Lunch



Brekke  
CHEMO

PALLA PHARMA