

# The Future of NMR in Biology



Inauguration of the 1.2 GHz NMR spectrometer

November 26-27, 2025

MDC.C, Axon I - Campus Berlin-Buch  
Robert-Rössle-Strasse 10, 13125 Berlin

Organization: Adam Lange, Sigrid Milles, Peter Schmieder, Han Sun



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November 26

10.00 am	Registration		Foyer
11.00 am	Adam Lange FMP Berlin	WELCOME	Axon 1
11.30 am		<b>Lucia Banci</b> - University of Florence The unique contribution of NMR to cellular structural biology	
12.00		<b>Rina Rosenzweig</b> - Weizmann Institute Molecular chaperones in health and disease - what can we learn through NMR	
12.30 pm		<b>Paul Schanda</b> - ISTA Vienna Dynamics underlying enzymatic function and chaperoning	
01.00 pm	Lunch		Foyer
02.00 pm	Björn Corzilius University of Rostock	<b>Bernd Reif</b> - Technical University Munich Development of MAS solid-state NMR methods and applications to the structural characterization of amyloid fibrils	Axon 1
02.30 pm		<b>Clemens Glaubitz</b> - University of Frankfurt Mechanistic insight into lipopolysaccharide transporters by solid-state NMR	
03.00 pm		<b>Anja Böckmann</b> - University of Lyon Solid-state NMR of viral proteins	
03.30 pm	Coffee Break		Hallway
04.00 pm	Sigrid Milles FMP Berlin	<b>Daniel Huster</b> - University of Leipzig The Future of Membrane Research: A New Role for the Good Ol' Lipid Bilayer	Axon 1
04.30 pm		<b>Martin Blackledge</b> - IBS Grenoble Reflections on the unparalleled ability of high field NMR spectroscopy to reveal complex biomolecular function	
05.00 pm		<b>Lyndon Emsley</b> - EPF Lausanne NMR crystallography	
05.30 pm	Coffee Break		Hallway
05.45 pm	Farewell Hartmut Oschkinat		Foyer
06.30 pm	Poster Session (with Snacks and Refreshments)		Foyer

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November 27

09.00 am	Loren Andreas MPI Göttingen	<b>Robert Griffin</b> - MIT Two Short Stories: Aducanumab Binding to A $\beta$ 1-42 and New Approaches to High Field DNP	Axon 1
09.30 am		<b>Guido Pintacuda</b> - ENS Lyon In situ Magic-Angle Spinning NMR of Membrane Proteins: from Vision to Practice	
10.00 am		<b>Rasmus Linser</b> - Technical University Dortmund Protein dynamics, new concepts and applications	
10.30 am	Coffee Break		Hallway
11.00 am	Han Sun FMP Berlin	<b>Tatyana Polenova</b> - University of Delaware MAS NMR, with and without DNP and integrative structural biology of viral protein assemblies	Axon 1
11.30 am		<b>Michael Sattler</b> - Helmholtz München NMR in 4D integrative structural biology - from dynamics and mechanisms to novel therapeutics	
12.00	Lunch		Foyer
01.45 pm	Franz Hagn TU Munich	<b>Mei Hong</b> - MIT Structures & Mechanisms of Viral Ion Channels from Solid-State NMR	Axon 1
02.15 pm		<b>Harald Schwalbe</b> - University of Frankfurt NMR of the other stuff: RNA	
02.45 pm	Coffee Break		Hallway
03.00 pm	Vicky Higman University of Leicester	<b>Andreas Schlundt</b> - University of Greifswald Dynamic RNA-protein interactions in gene regulation through the eyes of NMR-centered integrative structural biology	Axon 1
03.30 pm		<b>Rachel Martin</b> - University of California, Irvine Mimicking oxidative damage in long-lived proteins using genetic code expansion	
04.00 pm		<b>Angela Gronenborn</b> - University of Pittsburgh The awesome power of fluorine NMR - from drugs to cells	
04.30 pm	Coffee Break		Hallway
05.00 pm	Peter Schmieder FMP Berlin	<b>Marc Baldus</b> - Utrecht University Ultra-high field Magnets for in-situ life science NMR research & beyond	Axon 1
05.30 pm		<b>Christian Griesinger</b> - MPI Göttingen Fast kinetics from NMR and structure based mechanism towards therapy in neurodegeneration	
06.00 pm	Closing Remarks and End of Symposium		Axon 1

