

52nd National Congress on Magnetic Resonance

Verona 10-12 September 2025

Scientific Program

Wednesday September 10th

9:00-14:00	Registration
10:00-11:30	Bruker satellite meeting
11:30-13:00	Jeol satellite meeting

13:00-14:00	Bruker/Jeol Lunch
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14:00-14:30	Opening
	Plenary session Chair: M.R. Chierotti
14:30-15:20	Plenary Lecture 1 GIDRM/GIRM gold medal award Daniel O. Cicero (University of Rome "Tor Vergata") Exploring more than explaining: a journey through GIDRM meetings and schools and the people who shaped it
15:20-16:05	Plenary Lecture 2 Chair: S. Borsacchi Danielle Laurencin (University of Montpellier) ¹⁷ O isotopic labeling using mechanochemistry: recent advances and applications in high-resolution NMR

16:05-17:00	Coffee break + Poster session (ODD abstract numbers)
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	Parallel session A Chair: L. Russo	Parallel session B Chair: D. Laurencin
17:00-17:30	Rezaei-Ghaleh N. An NMR perspective on biomolecular dynamics in dilute and condensed phases	Carignani E. Bulk and surface properties of lead halide perovskites by solid state NMR
17:30-17:45	Diana D. Structural determinants driving the binding between pdz2 domain of zo1 protein and viral stem sequences	Rosso C. "When SSNMR met pair distribution function..." a novel structure determination method of organic compounds
17:45-18:00	Santoro F. Targeting the tpp1-telomerase complex: ligand discovery, experimental validation, and therapeutic implications in cancer	Mauri M. Compatibilization process in clay/SEBS nanocomposites explored by TD-NMR
18:00-18:15	Fabbian S. Dissecting the structural complexity of the ATP synthase OSCP subunit through integrative NMR, SAXS and native MS	Calucci L. Unravelling CO ₂ dynamics and CO ₂ -host interactions in metal-organic frameworks by solid state NMR
18:15-18:30	Turchi F. High-Resolution NMR Study of Ligand and Ca ²⁺ binding to the C-Terminal Region of α -Synuclein	Nardelli F. Dissecting the glass transition temperature in anion exchange membranes using time-domain NMR spectroscopy

	Plenary session Chair: A. Randazzo
18:30-18:45	Sponsorship Lecture (ABCS/nanalysis): A. F. G. Köring (Nanalysis Scientific Corp) Benchtop NMR Applications in Forensic Analysis
18:45-19:30	Plenary Lecture 3 Anna De Angelis (Salk Institute for Biological Studies) Fifty Shades of Suberin

Thursday September 11th

	Plenary session Chair: G. Parigi
8:45-9:30	Plenary Lecture 4 Michael Assfalg (University of Verona) Investigating influences on the conformational states of the amyloid-forming tau protein
9:30-9:45	Sponsorship Lecture (Bruker): Benevelli F. (Bruker Italia) Magnetic Resonance applied to battery research
9:45-10:15	Chair: M.R. Chierotti Under 35 GIDRM Andrea Cesari (University of Pisa) Solution state NMR toolbox: analytical approaches for small to large molecular systems
10:15-10:30	Sponsorship Lecture (Jeol): Nishiyama Y. (JEOL Ltd.) Recent advances in fast MAS from technical progress to applications
10:30-10:45	Sponsorship Lecture (Magritek/FKV): Todt H. (Magritek) Routine reaction monitoring using NOD-NMR: from manual sampling to inline analysis
10:45-11:35	Coffee break + Poster session (EVEN abstract numbers)

	Parallel session A Chair: M. Botta	Parallel session B Chair: M. D'Onofrio
11:35-12:05	Boscolo Galazzo I. Integrating magnetic resonance imaging and artificial intelligence: the future of diagnostics between innovation and precision	Fusaro L. Study of the crystallization of simple organic salts using multinuclear NMR in the liquid state
12:05-12:20	Romiti C. Orange-derived extracellular vesicles for drug delivery: isolation and labelling with MRI contrast agents for in vivo tracking	Ceccon A. Probing Self-Association of (+)-Catechin Coupled with Hydrogen-Deuterium Exchange by Solution NMR Spectroscopy
12:20-12:35	Tamanti A. Layer-wise analysis of cortical and periventricular alterations in multiple sclerosis using multiparametric MRI	Petrone M. NMR assisted biometal chelation study of new l-carnosine mimics: promising neuroprotective agents

12:35-13:55	Lunch + Poster session (ODD abstract numbers)
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	Plenary session Chair: S. Geninatti Crich
13:55-14:40	Plenary Lecture 5 Mauro Botta (University of the Eastern Piedmont) Multinuclear and multifrequency NMR techniques for probing water exchange in paramagnetic complexes
14:40-14:55	Sponsorship Lecture (Stelar): Anne-Laure Rollet (Sorbonne-University Paris) Fast field cycling NMR relaxometry to shed light on interfacial systems

	Chair: L. Ragona Segre-Capitani Fellowship
14:55-15:10	Eleonora Truzzi (University of Modena and Reggio Emilia) Application of NMR spectrometry on the study of lipid oxidation and antioxidant capacity of essential oils and extracts from agri-food wastes on
15:10-16:00	Coffee break + Poster session (EVEN abstract numbers)
16:00-18.30	GIDRM assembly + announcement of poster competition winner
19:30	social dinner

Friday September 12th

	Plenary session Chair: D.O. Cicero	
8:45-9:30	Plenary Lecture 6 Flaminia Cesare Marincola (University of Cagliari) NMR spectroscopy for food analysis: perspectives and applications in dairy products	
	Parallel session A Chair: F. Cesare Marincola	Parallel session B Chair: D.O. Cicero
9:30-10:00	Gallo V. Validated nmr methodologies: a decade of harmonization towards collaborative diagnostic applications	Saielli G. Computational nmr spectroscopy: from heavy atoms to bulk liquid phases
10:00-10:15	Grasso D. Monitoring tyrosine metabolism in alkaptonuria: an NMR-based approach to evaluate nitisinone efficacy and off-target effects	Lelli M. Efficient polarizing agents for high field and fast mas DNP
10:15-10:30	Molteni I. Combining NMR spectroscopy and mass spectrometry for the metabolic profiling of solid matrices	Kubrak A. Insight into internal motions and interactions of biomolecules in blood serum using high-resolution relaxometry
10:30-10:45	Marino C. NMR metabolomic characterisation of lipedema tissues: a multi-omics study	Napolitano E. NMR metabolomics analysis of mouse brain extracts with differential DDO expression using parahydrogen-induced hyperpolarization
10:45-11:00	Scioli G. Metabolic diversity of different broccoli-rabe landraces (<i>Brassica rapa</i> l. subsp. <i>sylvestris</i>) from different area of Puglia	Mascitti B. Solution state Overhauser DNP enabled by functionalized gold nanoparticles
11:00-11:30	Coffee break	
	Parallel session A Chair: A. De Angelis	Parallel session B Chair: M. Assfalg
11:30-12:00	Airoidi C. An NMR toolkit for the identification and development of biomolecular tools with diagnostic and therapeutic applications	Silipo A. Carbohydrates as keywords in the molecular dialogue
12:00-12:15	Cortese F. . Urinary NMR fingerprinting of muscle invasive bladder cancer: a step toward safer prognosis	Trivellato D. A multi-technique approach illuminates the conformational changes of the repeat domain of tau protein upon ubiquitination
12:15-12:30	Mimmi M. Experience report on ASICS: automated metabolite quantification in 1D- ¹ H NMR of tissue extracts	Parafioriti M. Deciphering heparan sulfate recognition by SARS-COV-2 spike protein variants through nmr and molecular dynamics simulations
12:30-12:45	Petrella G Merging NMR fingerprinting and profiling to uncover the metabolic impact of synthetic opioids	Bolognesi T. Probing the role of structural disorder in SARS-COV-2 N by NMR: insights into polyanion binding mechanisms
	Plenary session Chair: L. Ragona and M.R. Chierotti	
12:45-13:25	Poster competition winner lectures	
13:25-13:30	Closing	
13:30-14:30	Lunch	