

XLIV National Congress on Magnetic Resonance

28-30 September 2015



PROGRAM

Monday September 28th

10:00-13:00	Registration	
11:00-12:00	JEOL users meeting	
12:00-13:00	Bruker users meeting	
13:00-14:00	Lunch	
14:00-14:30	Opening	
	Plenary session Chair: H. Molinari	
14:30-15:30	GIDRM/GIRM gold medal award M. Geppi: My complex love story with NMR: scientific and human aspects	
15:30-15:50	Annalaura Segre fellowship 2014 E. Cappelletto: Solid State NMR investigation of thermally treated clay sediments (geopolymer source material)	
15:50-16:10	Annalaura Segre fellowship 2014 C. Nesti: NMR analysis of inorganic pigments and protein binders interaction in paint layers	
16:10-17:15	Coffee break + Poster session	
	Parallel session A dedicated to A. Bagno Chair: S. Mammi	Parallel session B Chair: P. Turano
17:15-17:45	G. Saielli: Computational NMR spectroscopy: reversing the information flow	R. Fattorusso: Exploring protein folding pathways by NMR spectroscopy
17:45-18:15	B. Mennucci: Towards the simulation of complexity: limits and potentials of multi-scale methods based on Quantum Chemistry	G. Pintacuda: Biomolecular solid-state NMR at ultra-fast magic-angle spinning: a revolution through faster revolutions
18:15-18:35	L. Di Bari: Pseudocontact shifts and structure determination of lanthanide complexes	G. Musco: The double life of PHD fingers: epigenet readers or hubs for multiple interactions? The strange case of Sp140 and NSD1
18:35-18:55	A. Borgogno: Prediction of ¹ H NMR parameters in paramagnetic species	M. D'Onofrio: Ubiquitin-nanoparticle interactions probed by NMR
	Plenary Session Chair: F. Arnesano	
18:55-19:40	C. Dobson: The nature and consequences of protein folding and misfolding	

Tuesday September 29th

Plenary Session Chair: L. Calucci	
8:45-9:30	D. Capitani: Nuclear Magnetic Resonance in cultural heritage
9:30-10:00	Bruker Sponsor Lecture W. Bermel: Homonuclear Decoupling
Coffee break + Poster session	
Parallel session A Chair: M. Chierotti	
11:20-11:50	E. Callone: Solid State NMR study of the processing dependence of silk Fibroin secondary conformation
11:50-12:10	P. Cerreia Vioglio: Halogen bonding: a Solid-State NMR study
12:10-12:30	E. Carignani: Drug-inorganic matrix composites studied by Solid State NMR
12:30-13:00	GIRM assembly
Parallel session B Chair: R. Fattorusso	
11:20-11:50	V. Gallo: Performance assessment in fingerprinting and multi-component quantitative NMR analyses
11:50-12:10	R. Consonni: The NMR based approach in quality assessment of saffron
12:10-12:30	R. Lamanna: How to put NMR on a map: an alternative approach to geographic origin
Lunch	
Plenary Session Chair: L. Mannina	
14:30-15:15	S. Viel: Structural investigation of organic materials by solid-state dynamic nuclear polarisation (DNP) nuclear magnetic resonance (NMR) spectroscopy
15:15-15:45	Jeol Sponsor Lecture S. Sakurai: Effects of ultrafast MAS
Coffee break + Poster session	
Parallel session A Chair: M. Geppi	
16:50-17:20	A. Mele: Inside ionic liquids by NMR methods
17:20-17:40	S. Sykora: Molecular spins: a new frontier (?)
17:40-18:00	M. Piccoli: The sound of the individual metabolic phenotype: acoustic detection of NMR experiments
18:00-18:20	L. Fusaro: ¹⁷ O NMR study of diamagnetic and paramagnetic lanthanide(III)- DOTA complexes in aqueous solution
18:20-20.00	GIDRM assembly + announcement of poster competition winners
Parallel session B Chair: V. Gallo	
16:50-17:20	I. Felli: New NMR methods based on ¹³ C direct detection to study intrinsically disordered proteins
17:20-17:40	R. Nepravishta: Unveiling the structural determinants of KIAA0323 binding preference for NEDD8
17:40-18:00	V. Ghini: Allostasis and resilience of the human individual metabolic phenotype
18:00-18:20	V. Righi: Binge eating disorder: who, what, when, where, why. The answers of NMR spectroscopy
Social dinner	

Wednesday September 30th

Lectures of poster competition winners Chair: H. Molinari	
Plenary Session Chair: I. Felli	
8:45-9:30	M. Lerche: Visualizing biochemical activities in living cells with ¹³ C hyperpolarization
9:30-10:15	M. J. Potrzebowski: Mesoporous silica nanoparticles as drug delivery systems. Solid State NMR studies
10:15-11:00	
Coffee break	
Parallel session A Chair: V. Righi	
11:20-11:50	A. Miccheli: NMR-based metabolomics to investigate the gut microbiota activity. What are we learning?
11:50-12:20	E. Schievano: NMR fingerprinting to determine honey authenticity
12:20-12:40	V. Mannella: Stable isotope-resolved metabolomics (SIRM): a method to study metabolic flux in cellular or murine models
Parallel session B Chair: D. Capitani	
11:20-11:50	A. Lascialfari: Magnetic nanoparticles in biomedicine
11:50-12:20	G. Digilio: Microenvironment-responsive MRI probes for application in cell therapy follow-up
12:20-12:40	F. Carniato: Paramagnetic mesoporous silica nanoparticles as potential MRI and theranostic probes
Plenary Session Chair: G. Musco	
12:40-13:25	C. Luchinat: Metabolic phenotyping: a revolution in diagnosis?
Closure and lunch	
13:25-15:00	