

XLVII NATIONAL CONGRESS ON MAGNETIC RESONANCE

TORINO 19-21 SEPTEMBER 2018

SCIENTIFIC PROGRAM

Wednesday September 19th

10:00-13:00	Registr	ration	
10:30-12:30	Bruker satellite meeting		
12:45-14:00	Bruker Lunch		
14:00-14:30	Opening		
	Plenary session Chair: V. Gallo		
14:30-15:30	GIDRM/GIRM gold medal award L. Mannina - My Personal History with NMR: FROM THE CHEMICAL STRUCTURE OF SINGLE COMPOUNDS TO THE STUDY OF COMPLEX MIXTURES		
15:30-16:15	ChemPubSoc Plenary Lecture A. Kenwright - Compressed NMR: More Information in the Same Space & Time		
16:15-17:20	Coffee break + Poster session		
	Parallel session A Chair: L. Calucci	Parallel session B Chair: L. Mannina	
17:20-17:40	L. Bianchini – Repeatibility and Robustness of Radiomic Features Extracted from Magnetic Resonance Images: a Phantom Study	C. Ingallina - "Cornetto di Pontecorvo DOP" Red Sweet Pepper Characterized by a Multi- Methodological Approach	
17:40-18:00	M. R. Ruggiero - Intracellular Water Lifetime as a Tumour Biomarker by FFC-Relaxometry	V. Righi – SKIN METABOLOMICS THROUGH HR-MAS NMR: EFFECTS OF INGENOL MEBUTATE ON ACTINIC KERATOSIS	
18:00-18:30	E. Gianolio – Low Resolution NMR as a Powerful Tool for Diagnostic Purposes	C. Airoldi - NMR Interaction Studies for Identification and Development of New Bioactive Compounds	
Plenary session			
10.20.10.00	Chair: M. Botta		
18:30-19:00	Stelar Lecture D. Brougham - FFC-NMR RELAXOMETRY STUDIES INTO THE INFLUENCE OF DYNAMICS ON FUNCTION IN NANO-MATERIALS FOR BIO-APPLICATION		
19:00-19:45	Plenary Lecture 2 S. Aime - Design and Testing of MR Molecular Imaging Reporters		

Thursday September 20th

	Plenary	session	
	Chair: P. Turano		
8:45-9:30	Plenary Lecture 3 I. Shimada - Developments and Applications of Novel NMR Methods to Characterize Functional Dynamics of High Molecular Weight Proteins		
9:30-10:00	Bruker Lecture		
10:00-10:30	B. Perrone - Biosolids CryoProbe, Automation with MAS Probes, and Other Solid-State NMR News Under 35 GIDRM award		
10.00 10.00	E. Carignani - Solid State Dynamics Probed by NMR Spectroscopy and Relaxometry: from Crystals to Soft Matter		
10:30-11:20	Coffee break + Poster session		
	Parallel session A Chair: J. N. Dumez	Parallel session B Chair: I. Shimada	
11:20-11:50	R. Lamanna - ¹ H NMR CHARACTERIZATION OF AGING PROCESSES IN PRECURSOR SOLUTIONS USED FOR YBCO SUPERCONDUCTORS PRODUCTION	R. Pierattelli – Un-Structural Biology by NMR Spectroscopy	
11:50-12:20	P. Cerreia Vioglio – A Time-Resolved, in-Situ DNP NMR Approach to Gain Insights into Metastable Polymorphs of Glycine	M. Assfalg - Insight into Transient Protein- Nanoparticle Interactions by Solution NMR	
12:20-12:40	G. Stevanato - An Efficient Gd ³⁺ Based Complex for High Field Dynamic Nuclear Polarization	M. Grimaldi – Design of Peptides for the Early Diagnosis of Alzheimer Disease	
12:40-13:00	F. Paruzzo - NMR MEETS MACHINE LEARNING: CHEMICAL SHIFT PREDICTIONS IN SOLIDS IN LESS THAN A MINUTE	F. Favretto – Unraveling the Role of Cis-Trans Peptidylprolyl Isomerases in Parkinson's Disease	
13:00-14:20	Lunch + Poster session		
	Plenary session Chair: D. Capitani		
14:20-15:05	Plenary Lecture 4 S. Mammi - NMR Contributions to Coffee Science: a Story of Technology Transfer from Academia to Industry		
15:05-15:35	Jeol Lecture		
15:35-16:15	A. Botana - Speeding up Structural Elucidation with NMR Segre Fellowships 2017		
	T. Cappello – Effects of Polystyrene Microplastics in Marine Mussels Mytilus Galloprovincialis by NMR-Based Metabolomics		
	E. Costanzi – Structural Characterization of Mammalian Presti		
16:15-17:30	Coffee break + Poster session		
17:00-17.30	GIRM assembly		
17:30-19.30	GIDRM assembly + announcement of poster competition winner		
19:30	Departure for the social dinner		

Friday September 21st

	Plenary session Chair: G. Pileio		
8:45-9:30	Plenary Lecture 5 J. N. Dumez – Diffusion NMR of Out-of-Equilibrium Mixtures		
		_	
	Parallel session A Chair: A. Kenwright	Parallel session B Chair: S. Mammi	
9:30-10:00	P. Arosio - The Effect of Chemico-Physical	G. Malgieri - METAL ION RECRUITMENT DRIVES THE	
	PARAMETERS OF MAGNETIC NANOPARTICLES ON THEIR FUNDAMENTAL AND BIOMEDICAL APPLICATIVE PROPERTIES: A FEW CASE STUDIES	FOLDING MECHANISM AND SELF-ASSOCIATION PROPENSITY OF HIGH HOMOLOGOUS PROTEINS	
10:00-10:20	F. Capuana - A Novel Tetrameric Gadolinium Based Contrast Agent for MR Molecular Imaging of Tropoelastin	F. Nardelli - Succinimide-Based Conjugates Improve IsoDGR Cyclopeptide Affinity to AVB3 without Promoting Integrin Allosteric Activation	
10:20-10:40	F. Carniato - NMR DETERMINATION OF THE HYDRATION NUMBER AND EXCHANGE RATE OF THE BOUND WATER MOLECULE ACROSS THE LN[AAZTA]-SERIES	F. Munari – Structural and Molecular Recognition Properties of UBB ⁺¹ , a Ubiquitin Mutant Associated with Alzheimer's Disease	
10:40-11:10	Coffee	break	
	Parallel session A Chair: M. Chierotti	Parallel session B Chair: M. D'Onofrio	
11:10-11:40	F. Martini - Phase Separation, Dynamics and Interaction in Starch-Sucrose Amorphous Blends by Solid State NMR	T. Pertinhez - NMR in Transfusion Medicine	
11:40-12:00	F. Rossi – Ultrafast MAS Proton-Detected 3D Solid State NMR Experiment to Recouple ¹⁵ N Chemical Shift Anisotropy	F. Savorani - The Human Urinary Metabolome to Assess the Risk-of-Poverty Status Across European Populations: a NMR Nutri- Metabolomic Study	
12:00-12:20	M. Mauri - Direct and Indirect Exploration of Nanocrystal Surface	G. Petrella - A Comprehensive Urinary Metabolomic Approach Based on NMR and LC- HRMS to Identify Bladder Cancer	

12:20-12:50	Plenary session Chair: M. Geppi Poster competition winner lectures	
12:50-13:35	Plenary Lecture 6 M. Duer – Heavy Mice and Light Things: Using Solid-State NMR Spectroscopy to Understand Biological Tissues in Health and Disease	
13:35-13:40	Closing	
13:40-15:00	Lunch	