

XLVI NATIONAL CONGRESS ON MAGNETIC RESONANCE

FISCIANO (SA) 27-29 SEPTEMBER 2017

SCIENTIFIC PROGRAM

Wednesday September 27th

10:00-13:00

10:00-13:00	Registration		
10:30-12:30	Bruker satellite meeting (registration starts at 10:00)		
12:45-14:00	Bruker Lunch		
14:00-14:30	Opening		
14:30-15:30	Chair: M. Geppi GIDRM/GIRM gold medal award A. Mele - Molecular interactions and dynamics at a glance: NMR and beyond		
15:30-16:15	Plenary Lecture 1 H. Molinari – NMR STUDIES ON AMYLOID β PEPTIDES		
16:15-17:20	Coffee break + Poster session		
	Parallel session A Chair: D. Lurie	Parallel session B Chair: M. Edén	
17:20-17:50	S. Geninatti Crich – Relaxometry of cancer: effect of water mobility and magnetic field strength on tissue and cell water proton T_1	P. Thureau - DNP-ENHANCED SOLID-STATE NMR FOR THE STUDY OF POWDERS AT NATURAL ISOTOPIC ABUNDANCE	
17:50-18:10	D. Di Censo - MRI CHARACTERIZATION OF STRUCTURAL MODIFICATIONS IN STRIATUM OF PARKINSON'S DISEASE RAT MODEL	S. Sykora - The unbearable fuzziness of NMR data?	
18:10-18:30	M. Tourell – Probing the long-time diffusion limit in macroporous spheres packings via long lived singlet states	R. Spadaccini - DNP-Solid-state NMR studies on the ATP-driven Lipid Flippase MsbA	
18:30-18:50	M. Fantasia - Numerical analysis of the nested birdcage RF coil configuration for $^1{\rm H}/^{23}{\rm Na}$ MRI at 2.35 T and workbench validation	E. M. Vasini - PCBC - A NOVEL AUTOMATIC PHASE & BASELINE CORRECTION ALGORITHM	
18:50-19:35	Chair: L. Calucci Plenary Lecture 2 D. Sakellariou - Compact magnetic resonance: frontiers and challenges		

Thursday September 28th

20:30

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8:45-9:30	Chair: E. Terreno Plenary Lecture 3 D. Lurie - FAST FIELD-CYCLING MAGNETIC RESONANCE IMAGING		
9:30-10:00	Bruker Lecture H. Kovacs - Avance Neo – Breakthrough in Multi-Receive NMR technology		
10:00-10:30	Chair: M. Geppi Under 35 GIDRM award 2017 G. Ferrauto - Enhancing sensitivity of Chemical Exchange Saturation Transfer (CEST) MRI probes: FROM SMALL MOLECULES TO CELL-CEST AGENTS		
10:30-11:20	Coffee break + Poster session		
	Parallel session A Chair: A. Mele	Parallel session B Chair: H. Molinari	
11:20-11:50	M. Fragai - Characterization of L-Asparaginase: NEW APPLICATIONS OF NMR IN BIOPHARMACEUTICAL RESEARCH	A. Randazzo - DNA G-QUADRUPLEX INTERACTING PROTEINS: FROM IDENTIFICATION TO CHARACTERIZATION	
11:50-12:20	S. Borsacchi – Solid State NMR spectroscopy and ¹ H relaxometry for a multi-scale investigation of innovative MgO-based cements	D. Cicero – Plasma protein binding of drug candidates by NMR	
12:20-12:40	F. Panattoni - ¹ H TIME-DOMAIN NMR ANALYSIS OF ELASTOMERIC NANOCOMPOSITES	R. Marchetti - NMR APPROACHES FOR THE STUDY OF THE INTERACTIONS BETWEEN HOST PROTEINS AND CELL SURFACE N-GLYCANS	
12:40-13:10	GIRM as	sembly	
13:10-14:30	Lunch		
14:30-15:15	Chair: A.M. D'Ursi Plenary Lecture 4 T. Carlomagno - Integrative structural biology of RNP machinery in solution		
15:15-15:45	Jeol Lecture A. Botana - The road to better HFX experiments		
15:45-16:25	Chair: D. Capitani Segre Fellowships 2016 S. Bordignon - 2D SOLID-STATE NMR EXPERIMENTS TO CHARACTERIZE THE HYDROGEN BOND NETWORK IN PHARMACEUTICAL COCRYSTALS V. Mangini - NMR-BASED APPROACHES FOR NANOTOXICITY ASSESSMENT: EFFECT OF SILVER NANOPARTICLES ON COPPER TRAFFICKING PROTEINS		
16:25-17:30	Coffee break + Poster session		
17:30-19.30	GIDRM assembly + announceme	nt of poster competition winner	

Social dinner

Friday September 29th

8:45-9:30	Chair: M. Chierotti Plenary Lecture 5 M. Edén - Low-power symmetry-based homonuclear dipolar recoupling: design, principles and Applications		
	Parallel session A Chair: S. Mammi	Parallel session B Chair: M.P. D'Onofrio	
9:30-10:00	A. Rotondo - Data mining from NMR spectra of vegetable oils	F. Arnesano – Effect of cisplatin on the copperdependent interaction between Atox1 and Mnk1	
10:00-10:20	P. G. Takis - DEVELOPING METHODOLOGIES FOR THE EFFECTIVE NMR BASED METABOLOMICS ANALYSIS OF BIOFLUIDS	F. Carniato – Structural features of Eu ^{II} - CONTAINING CRYPTATES THAT INFLUENCE RELAXIVITY	
10:20-10:40	A. Rizzuti - Combination of Nuclear Magnetic Resonance and Hyperspectral Reflectance for The Identification of Erwinia Amylovora SP. Infected Leave	D. Alberti - A THERANOSTIC APPROACH FOR BORON NEUTRON CAPTURE THERAPY (BNCT) TREATMENT BASED ON THE USE OF GD/B MULTIMODAL PROBES	

10:40-11:10 Coffee break

	Parallel session A	Parallel session B
11:10-11:40	Chair: G. Pileio M. Halse - Hyperpolarised low-field NMR SPECTROSCOPY	Chair: T. Carlomagno D. Picone - PH INFLUENCE ON STRUCTURE AND STABILITY OF MNEI: A SWEET MODEL FOR PROTEIN FOLDING AND AGGREGATION STUDIES
11:40-12:00	M. Tessari - Para-Hydrogen hyperpolarization for 1D and 2D NMR chemical analysis at sub-micromolar concentrations	L. Russo - Mechanistic basis for the recognition of the coactivator NCOA-1 by STAT6
12:00-12:20	E. Cavallari - PARAHYDROGEN HYPERPOLARIZED METABOLITES FOR METABOLIC STUDIES ON BREAST CANCER CELLS	V. Nasta - Structural insights into the molecular function of human [2Fe-2S] BOLA3-GRX5 and [2Fe-2S] BOLA1-GRX5 complexes
12:20-12:35	Chair: P. Turano Poster competition winner lecture	
12:35-13:20	Plenary Lecture 6 T. Polenova – Integrative structural biology of biological assemblies: structure and dynamics of HIV-1 and microtubule-associated protein assemblies	
13:20-13:30	Closing	
13:30-15:00	Lunch	