

XLVII NATIONAL CONGRESS ON MAGNETIC RESONANCE

L'Aquila 11-13 September 2019 University of L'Aquila, Alan Turing Building

SCIENTIFIC PROGRAM

Wednesday September 11th

10:00-13:00	Registration		
10:30-12:30	Bruker satellite meeting		
12:45-14:00	Bruker Lunch		
14:00-14:30	Opening		
	Plenary session Chair: M. Geppi		
14:30-15:30	GIDRM/GIRM gold medal award M. Piccioli - Fast Nuclear Relaxation, Slow Protein Dynamics and Other Zen Time Scales		
15:30-16:15	Plenary Lecture 1 H. Schwalbe – New NMR Methods to Study RNA Structure and Dynamics		
16:15-17:20	Coffee break + Poster session 1		
	Parallel session A Chair: M. Piccioli	Parallel session B Chair: L. Calucci	
17:20-17:50	D. Cicero - Plasma Protein Binding of Drug Candidates by NMR		
17:50-18:10	V. Ghini - NMR Approaches in Metabolomics: from Cells to Biofluids	F. Gabriele – ¹ H-NMR-RELAXATION AS A POWERFUL TOOL FOR ASSESSING CONSERVATION MATERIALS	
18:10-18:30	S. Todisco - Importance of Sample Preparation in Non-Targeted NMR Analysis for the Traceability of Italian Tomatoes	V. Di Tullio – Single-Sided NMR to Study the Effects of Humidity and Water-Based Cleaning Systems in Oil Paintings	
	Plenary session		
	Chair: M. Alecci		
18:30-19:00	Stelar Lecture J. Ward-Williams – Probing Interaction Strength and Liquid Dynamics in Nanoporous Oxides Using Fast Field Cycling NMR		
19:00-19:45	Plenary Lecture 2 N.J. Shah – Multimodal Simultaneous Imaging: Advances in MR-PET-EEG 3T, 7T and 9.4T in Humans		

Thursday September 12th

	Dlanawa	aggion	
	Plenary session Chair: P. Turano		
8:45-9:30	Plenary Lecture 3		
	J. Titman - Dynamic Nuclear Polarization Enhanced Solid-State NMR Studies of Catalysts and		
	CATALYST SUPPORTS		
9:30-10:00	Jeol Lecture		
10:00-10:30	M. Malon - Extracting Accurate Information from NMR Data		
10.00-10.30	Under 35 GIDRM award A. Conti – Focused Ultrasound-Mediated Drug Delivery Through the Blood-Brain and Blood-Tumor		
	BARRIER		
	DIMODA		
10:30-11:20	Coffee break + Poster session 2		
Parallel session A Parallel session B			
	Chair: P. Jezzard	Chair: M. Chierotti	
11:20-11:50	R. Wise - QUANTITATIVE MAPPING OF HUMAN BRAIN	G. Mollica - New Sensitivity-Enhanced Solid-	
	CEREBROVASCULAR AND METABOLIC FUNCTION	STATE NMR APPROACHES TO INVESTIGATE	
		CRYSTALLIZATION AND POLYMORPHISM	
11:50-12:10	Bracco lecture - A. Fringuello Mingo - AN	S. Borsacchi - Phosphorene and Black	
	IMPROVED BLOOD POOL MRI AGENT WITH DINUCLEAR	PHOSPHORUS: THE 31P NMR VIEW	
	STRUCTURE: IN VITRO AND IN VIVO CHARACTERIZATION		
	AND DIAGNOSTIC CAPABILITY IN A MODEL OF RAT		
	CEREBRAL ISCHEMIA.		
12:10-12:30	M. Tripepi - Paramagnetic Giant Liposomes as	E.M. Vasini - Technical Details of an FFC-NMR	
	HIGHLY SENSITIVE VERSATILE MRI CONTRAST AGENTS	STUDY OF WATER-CYCLOHEXANE-LECITHIN MICELLES	
		Systems	
12:30-13:50	Lunc	sh 1	
12.30-13.30	Lunc	II I	
	Plenary session		
	Chair: G. Pileio		
13:50-14:35	Plenary Lecture 4		
	P. Jezzard - New Methods for the Study of Cere		
14:35-14:55	IMAGING Segre Fellowships 2018		
	E. Amadio – Applications of 1D and 2D Solid-Stat	-	
	ACTIVE PHARMACEUTICAL INGREI		
14:55-15:25	Bruker l		
	F. Benevelli – NMR APPLIED	TO THE ANALYSIS OF BIOLOGICS	
15:25-16:40	Coffee break + P	oster session 3	
20.20 20.10	Jones Steak 1		
16:10-16.40	GIRM assembly		
16.40.40.20	CIDDM accombly to an aumoomout of the state		
16:40-19.30	GIDRM assembly + announcement of poster competition winners		
19:30	Departure for the social dinner		

Friday September 13th

	Parallel session A	Parallel session B		
	Chair: A. Galante	Chair: I. Kuprov		
8:45-9:15	F. Castiglione - Diffusion NMR in Hydrogel	D. Remondini - MACHINE LEARNING TOOLS FOR		
	Systems: Evidence of Lévy Flights Superdiffusive Motion	ADVANCED PROCESSING AND ANALYSIS OF MR DATA		
9:15-9:35	G. Profeta - WATER DYNAMICS AND NMR RELAXATION	C. Rizza - Boosting Magnetic Resonance Imaging		
	PROPERTIES OF NANOCONFINED WATER	SIGNAL-TO-NOISE RATIO USING MAGNETIC SURFACE PLASMONS		
9:35-9:55	G. Melchiorre - SAD TI: SINGLET ASSISTED DIFFUSION TENSOR IMAGING FOR POROUS MEDIA INVESTIGATIONS	R. Francischello - Low Rank Approximation: A Flexible Framework for Noise Reduction in Multiple NMR Experiments		
9:55-10:15	M.E. Di Pietro - NMR AS A TOOL TO PROBE	A. Rotondo - Mining ¹³ C-NMR Experiments		
	STRUCTURE AND DYNAMICS OF DEEP EUTECTIC	THROUGH THE MARA-NMR STRATEGY AND OTHER		
	SOLVENTS AND THEIR MIXTURES	NMR Issues		
	Dlonowy cossion			
	Plenary session Chair: J. Titman			
10:15-10:45	Poster competition winners lectures			
10:45-11:15	Coffee break			
	Parallel session A	Parallel session B		
	Chair: M. D'Onofrio	Chair: N.J. Shah		
11:15-11:45	L. Ragona - Molecular Mechanism of	N. Toschi - Advanced Diffusion MRI for Whole		
	Antiangiogenic Agents Targeting Fibroblast	BRAIN IN VIVO AXONAL DIAMETER MAPPING IN		
	GROWTH FACTOR-2/TYROSINE-KINASE RECEPTOR INTERACTIONS	MULTIPLE SCLEROSIS		
11:45-12:05	L. Russo - Tuning of Micro-Millisecond	S. Della Penna - Multivariate MEG Correlates		
	CONFORMATIONAL DYNAMICS CONTROLS THE	OF BOLD MODULATION INDUCED BY VISUOSPATIAL		
	FORMATION OF PRION PROTEIN INTERMEDIATE STATES	ATTENTION		
12.05 12.25	INVOLVED IN AMYLOID FIBRILS ASSEMBLY	E Biandati Asspective Verynamere Cyrinene iv		
12:05-12:25	G. Parigi - Local and Global Protein Dynamics by FFC Relaxometry	E. Biondetti - Assessing Volumetric Changes in the Substantia Nigra Pars Compacta (SNC) of		
	FFC RELAXUMETRY	PATIENTS WITH R.E.M. SLEEP BEHAVIOUR DISORDER		
		(RBD) AND PARKINSON'S DISEASE (PD)		
12:25-12:45	M. Schiavina - TAKING SIMULTANEOUS SNAPSHOTS OF	M. Marrale - Thalamic Parcellation for Target		
	Intrinsically Disordered Proteins in Action	IDENTIFICATION IN TRANS-CRANIAL MR-GUIDED		
	EXPLOITING MULTIPLE RECEIVERS AND HETERONUCLEAR	FOCUSED ULTRASOUND (TCMRGFUS)		
	DIRECT DETECTION	THALAMOTOMIES: A PRELIMINARY PROBABILISTIC		
		TRACTOGRAPHY STUDY		
	ni ni	aggion		
	Plenary Chair: M			
12:45-13:30	30 Plenary Lecture 5 I. Kuprov - Quantum Mechanical MRI Simulations:			
	SOLVING THE MATRIX DIMENSION PROBLEM			
13:30-13:40	Closing			
13:40-15:00	Lun	nch		