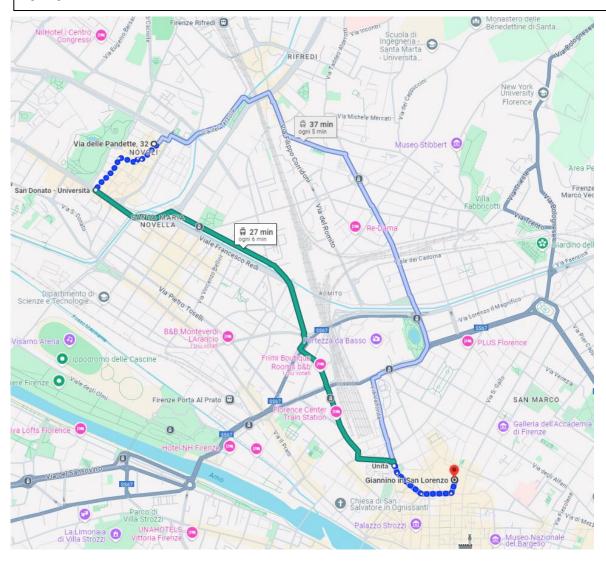


<u>LUNCH AREA</u>, Via delle Pandette 2, Firenze (FI), **Loggiato**

Biblioteca di Scienze Sociali

SOCIAL DINNER, Borgo S. Lorenzo, 33r/35r, Firenze (FI), Trattoria Giannino in San Lorenzo

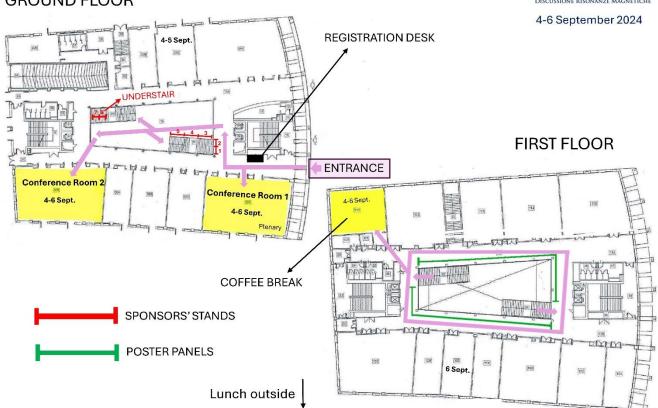


T2 (Tramvia linea 2), Fermate: San Donato Università-Unità (6 stop), 27 minutes. Tickets are available for purchase on board with a credit card.

D4 BUILDING MAP Polo di Novoli, University of Florence



GROUND FLOOR





51ST NATIONAL CONGRESS ON MAGNETIC RESONANCE

FLORENCE 04-06 SEPTEMBER 2024

SCIENTIFIC PROGRAM

Wednesday Se	ntember 04 th
--------------	--------------------------

10:00-11:30 11:30-13:00 Bruker satellite meeting 13:00-14:00 Bruker/Jeol Lunch 14:00-14:30 Opening Plenary session Chair: A. Mucci and M.R. Chierotti Plenary Lecture 1 GIDRM/GIRM gold medal award Roberto Fattorusso (University of Campania Luigi Vanvitelli) NMR SPECTROSCOPY APPLIED TO PROTEIN CONFORMATION EQUILIBRIA: MY SCIENTIFIC AND HUMAN TRIP 15:20-16:05 Plenary Lecture 2 Chair: A. Randazzo	9:00-14:00	Registration	
13:00-14:00 Bruker/Jeol Lunch Opening Plenary session Chair: A. Mucci and M.R. Chierotti 14:30-15:20 Plenary Lecture 1 GIDRM/GIRM gold medal award Roberto Fattorusso (University of Campania Luigi Vanvitelli) NMR SPECTROSCOPY APPLIED TO PROTEIN CONFORMATION EQUILIBRIA: MY SCIENTIFIC AND HUMAN TRIP 15:20-16:05 Plenary Lecture 2	10:00-11:30	Jeol satellite meeting	
14:00-14:30 Opening Plenary session Chair: A. Mucci and M.R. Chierotti 14:30-15:20 Plenary Lecture 1 GIDRM/GIRM gold medal award Roberto Fattorusso (University of Campania Luigi Vanvitelli) NMR SPECTROSCOPY APPLIED TO PROTEIN CONFORMATION EQUILIBRIA: MY SCIENTIFIC AND HUMAN TRIP 15:20-16:05 Plenary Lecture 2	11:30-13:00	Bruker satellite meeting	
14:00-14:30 Opening Plenary session Chair: A. Mucci and M.R. Chierotti 14:30-15:20 Plenary Lecture 1 GIDRM/GIRM gold medal award Roberto Fattorusso (University of Campania Luigi Vanvitelli) NMR SPECTROSCOPY APPLIED TO PROTEIN CONFORMATION EQUILIBRIA: MY SCIENTIFIC AND HUMAN TRIP 15:20-16:05 Plenary Lecture 2			
Plenary session Chair: A. Mucci and M.R. Chierotti 14:30-15:20 Plenary Lecture 1 GIDRM/GIRM gold medal award Roberto Fattorusso (University of Campania Luigi Vanvitelli) NMR SPECTROSCOPY APPLIED TO PROTEIN CONFORMATION EQUILIBRIA: MY SCIENTIFIC AND HUMAN TRIP 15:20-16:05 Plenary Lecture 2	13:00-14:00	Bruker/Jeol Lunch	
Plenary session Chair: A. Mucci and M.R. Chierotti 14:30-15:20 Plenary Lecture 1 GIDRM/GIRM gold medal award Roberto Fattorusso (University of Campania Luigi Vanvitelli) NMR SPECTROSCOPY APPLIED TO PROTEIN CONFORMATION EQUILIBRIA: MY SCIENTIFIC AND HUMAN TRIP 15:20-16:05 Plenary Lecture 2			
Chair: A. Mucci and M.R. Chierotti 14:30-15:20 Plenary Lecture 1 GIDRM/GIRM gold medal award Roberto Fattorusso (University of Campania Luigi Vanvitelli) NMR SPECTROSCOPY APPLIED TO PROTEIN CONFORMATION EQUILIBRIA: MY SCIENTIFIC AND HUMAN TRIP 15:20-16:05 Plenary Lecture 2	14:00-14:30	Opening	
14:30-15:20 Plenary Lecture 1 GIDRM/GIRM gold medal award Roberto Fattorusso (University of Campania Luigi Vanvitelli) NMR SPECTROSCOPY APPLIED TO PROTEIN CONFORMATION EQUILIBRIA: MY SCIENTIFIC AND HUMAN TRIP 15:20-16:05 Plenary Lecture 2		Plenary session	
GIDRM/GIRM gold medal award Roberto Fattorusso (University of Campania Luigi Vanvitelli) NMR SPECTROSCOPY APPLIED TO PROTEIN CONFORMATION EQUILIBRIA: MY SCIENTIFIC AND HUMAN TRIP 15:20-16:05 Plenary Lecture 2		Chair: A. Mucci and M.R. Chierotti	
Roberto Fattorusso (University of Campania Luigi Vanvitelli) NMR SPECTROSCOPY APPLIED TO PROTEIN CONFORMATION EQUILIBRIA: MY SCIENTIFIC AND HUMAN TRIP 15:20-16:05 Plenary Lecture 2	14:30-15:20		
NMR SPECTROSCOPY APPLIED TO PROTEIN CONFORMATION EQUILIBRIA: MY SCIENTIFIC AND HUMAN TRIP 15:20-16:05 Plenary Lecture 2			
HUMAN TRIP 15:20-16:05 Plenary Lecture 2			
15:20-16:05 Plenary Lecture 2		·	
·			
Chair: A. Randazzo	15:20-16:05	•	
Maria Rosaria "Sasi" Conte (King's College London)		Maria Rosaria "Sasi" Conte (King's College London)	
TELLING THE TALE OF LA-RELATED PROTEINS THROUGH NMR AND BIOPHYSICAL		TELLING THE TALE OF LA-RELATED PROTEINS THROUGH NMR AND BIOPHYSICAL	
CHARACTERISATIONS		CHARACTERISATIONS	

16:05-17:00 Coffee break + Poster session (ODD abstract numbers)

	Parallel session A Chair: L. Russo	Parallel session B Chair: G. Parigi
17:00-17:30	Leone M. SEARCHING FOR NOVEL ANTICANCER AGENTS BY NMR-BASED APPROACHES: SAM DOMAINS AS CHALLENGING TARGETS	Stevanato G. PARAHYDROGEN BASED PYRUVATE HYPERPOLARIZATION
17:30-17:45	Castiglione F. RECENT ADVANCES IN HYALURONIC ACID-BASED HYDROGELS: ¹ H HR-MAS INVESTIGATION OF DIFFUSION MOTION	Golini C. PORTABLE LOW FIELD NMR FOR IN SITU DIAGNOSIS AND MONITORING OF CULTURAL HERITAGE
17:45-18:00	Cerofolini L. COMBINING SOLID-STATE NMR WITH STRUCTURAL AND BIOPHYSICAL TECHNIQUES TO DESIGN CHALLENGING PROTEIN-DRUG CONJUGATES	Niccoli L. NOVEL POLARIZING AGENTS FOR EFFICIENT HIGH FIELD AND FAST MAS DYNAMIC NUCLEAR POLARIZATION
18:00-18:15	Di Carluccio C. SIGLEC-7 NMR ASSIGNMENT AND BINDING SPECIFICITIES TO DISIALYLATED GANGLIOSIDES	Licciardi G. HIGH RESOLUTION RELAXOMETRY FOR MULTISCALE DYNAMICS IN COMPLEX SYSTEMS
18:15-18:30	Bracaglia L. STRUCTURALLY HETEROGENEOUS PROTEINS STUDIED BY RELAXATION-EDITED NMR EXPERIMENTS	Pierigè M. EFFECT OF RESINS ON SBR DYNAMICS BY SOLID STATE NMR AND NMR RELAXOMETRY

	Plenary session
	Chair: S. Geninatti Crich
18:30-18:45	Sponsorship Lecture (Stelar): A. Nagmutdinova
	FFC NMR APPLICATION IN FOOD SCIENCE AND BEYOND
18:45-19:30	Plenary Lecture 3
	Mathilde Hauge Lerche (Technical University of Denmark)
	ENHANCING NMR SENSITIVITY FOR COMPLEX MIXTURE ANALYSIS THROUGH
	HYPERPOLARIZATION

Thursday September 05th

Thursday septer	inder 05	
	Plenary session	
	Chair: G. Parigi	
8:45-9:30	Plenary Lecture 4	
	Claudio Luchinat (University of Florence)	
	IMPROVING THE INFORMATION CONTENT OF NMR SPECTRA OF METABOLOMIC SAMPLES	
9:30-9:45	Sponsorship Lecture (Bruker): A. Moreno	
	NEW EXPERIMENTS IN TOPSPIN: PURESHIFT, GEMSTONE, DOSY, AND MORE!	
9:45-10:15	Chair: M.R. Chierotti	
	Under 35 GIDRM	
	M. Spano (Sapienza University of Rome)	
	NMR METABOLOMICS TO BETTER DEFINE ALTERNATIVE AND SUSTAINABLE FOOD SOURCES	
10:15-10:30	Sponsorship Lecture (Jeol): A. Botana	
	THE MILLIGRAM CHALLENGE	

10:30-11:20 Coffee break + Poster session (EVEN abstract numbers)

	Parallel session A	Parallel session B
	Chair: A. Randazzo	Chair: D. Kubicki
11:20-11:50	Ingallina C. METABOLOMIC MARVELS: DECODING	Gallo A. SOLID STATE NMR AS ELEGANT TOOL IN
	THE FOOD WORLD THROUGH NMR SPECTROSCOPY	CRYSTAL STRUCTURE DETERMINATION OF SMALL
		ORGANIC MOLECULES
11:50-12:05	SOZZI M. CHALLENGES IN MEASURING ETHANOL CONTENT IN ALCOHOLIC BEVERAGES USING ¹ H NMR: METHOD EVALUATION AND A WINE CASE STUDY	Piva S. DYNAMICS OF FAST-ROTATING ROTORS IN A METAL-ORGANIC FRAMEWORK AS EXPLORED BY SOLID-STATE NMR
12:05-12:20	Cicero D. NOVEL INSIGHTS INTO METABOLIC CROSSTALK IN MULTIMORBID PATIENTS USING NMR SPECTROSCOPY	Bravetti F. SYNTHESIS AND SOLID-STATE NMR-DRIVEN CRYSTAL STRUCTURE DETERMINATION OF THE FIRST CO-DRUG OF VALPROIC ACID AND L-CARNITINE
12:20-12:35	Brigante F. NOVEL CHARACTERIZATION OF PLANT-BASED BEVERAGES BY 1D AND 2D NMR	Della Latta E. USING ¹³ C HIGH-RESOLUTION SOLID-STATE NMR TECHNIQUES TO INVESTIGATE A Cu(II)-BASED PARAMAGNETIC MOF
12:35-12:50	Zampieri S. ¹ H-NMR FOR MASLD DIAGNOSIS: MULTIVARIATE ANALYSIS OF SERUM METABOLITES TO DIFFERENTIATE DISEASE STAGES	Martini F. UNVEILING LOCAL DYNAMICS IN TRIPTYCENE-BASED POROUS POLYMERS: A SOLID-STATE NMR STUDY

12:50-14:10 Lunch + Poster session (ODD abstract numbers)

	Plenary session
	Chair: S. Borsacchi
14:10-14:55	Plenary Lecture 5
	Dominik Kubicki (University of Birmingham)
	LOCAL STRUCTURE AND DIFFUSION OF SODIUM IN A HYBRID GLASS FROM HIGH-TEMPERATURE
	²³ Na MAS NMR AT 20 T
14:55-15:10	Sponsorship Lecture (Bracco): A. Macula
	ASSESSING THE RELIABILITY OF VIRTUAL CONTRAST: A GENERALIZATION
	STUDY ACROSS DIFFERENT TUMOR TYPES AND PATIENT DEMOGRAPHICS
15:10-15:25	Sponsorship Lecture (Magritek/FKV): L. Bottalico
	NEW BENCHMARK FOR BENCHTOP NMR MAGNET HOMOGENEITY: HOW SPINSOLVE™ ULTRA NMRS
	BOOST SOLVENT SUPPRESSION PERFORMANCE FOR 1- AND 2D NMR

	Chair: L. Ragona	
	Segre-Capitani Fellowships	
15:25-15:40	C. Papi (University of Turin)	
	A MRI-CEST METHOD FOR MAPPING WATER CYCLING ACROSS CELLULAR MEMBRANES	
15:40-15:55	A. Gambini (University of Modena and Reggio Emilia)	
	NMR-BASED METABOLOMICS IN MNGIE RARE DISEASE	

15:55-16:10	A. Barbanente (University of Bari)	
	AN NMR-BASED APPROACH TO ELUCIDATE THE LINK BETWEEN DIETARY ZINC STORAGE AND	
	TRYPTOPHAN METABOLISM	
16:10-17:30	Coffee break + Poster session (EVEN abstract numbers)	
16:40-17:30	GIRM assembly	
17:30-19.30	GIDRM assembly + announcement of poster competition winner	
20:30	social dinner	

Friday September 06st

	Plenary session	
	Chair: P. Turano	
8:45-9:30	Plenary Lecture 6	
	Alceo Macchioni (University of Perugia)	
	APPLICATION OF NMR TO THE STUDY OF CATALYTIC REACTIONS	

	Parallel session A Chair: S. Geninatti Crich	Parallel session B Chair: A. Macchioni
9:30-10:00	Testa C. MAPPING BRAIN CONNECTIVITY THROUGH WATER MOTION	Airoldi C. NMR-BASED IDENTIFICATION AND DEVELOPMENT OF BIOACTIVE COMPOUNDS
MAGNETIC NANOPARTICLES FOR ENHANCED SUSTAINABLE STR		CAUTION IN INTERPRETING INTERMOLECULAR
10:15-10:30	Quattrociocchi C. In vitro and in vivo MR IMAGING OF THE CAIX EXPRESSION IN BREAST CANCER	Todisco S. A MULTINUCLEAR NMR STUDY OF SELECTIVE DEGRADATION OF ORGANOSILICON COMPOUNDS BY OXALATE ION IN ACQUEOUS SOLUTION
10:30-10:45	POTTU M. ZINC AND MANGANESE DOPED IRON OXIDE MAGNETIC NANOPARTICLES: EFFECT ON THE ¹ H-NMR RELAXATION PROPERTIES	Sabena C. QUANTITATIVE SOLID-STATE NMR ANALYSIS BY CHEMOMETRIC APPROACH
10:45-11:00	Macchia M.L. Assessing the impact of donor groups on the coordination and magnetic properties of monohydrated Fe(III) complexes for MRI applications	Righetti G. DEEP EUTECTIC SOLVENTS FOR HMF VALORIZATION

11:00-11:30	Coffee break

	Parallel session A Chair: M. Piccioli	Parallel session B Chair: S. Borsacchi			
11:30-12:00	Cantini F. SOLUTION NMR TO ADDRESS STRUCTURE AND INTERACTIONS OF METALLOPROTEINS: THE CASE OF THE IRON-SULPHUR CISD3 AND CALCIUM BINDING PROTEIN CIB2	Pedone A. ADVANCEMENT IN THE SIMULATIONS OF SOLID-STATE NMR SPECTRA OF OXIDE GLASSES: INTEGRATING AB INITIO CALCULATIONS AND MACHINE LEARNING			
12:00-12:15	Acconcia C. NMR-GUIDED DESIGN OF SELECTIVE INTEGRIN LIGANDS	Ravera E. An integrative view on bioinspired silicallysozyme composites			
12:15-12:30	Grasso D. INVESTIGATION OF THE DYNAMICS/FUNCTION RELATIONSHIP OF PHOSPHORYLATED ONCOPROTEIN YB-1 BY NUCLEAR MAGNETIC RESONANCE	Pizzanelli S. STRUCTURE AND DYNAMICS OF HIGHLY CONCENTRATED LICI METHANOLIC SOLUTIONS CONFINED IN A MESOPOROUS SILICA: AN NMR STUDY			
12:30-12:45	Grifagni D. AN ABERRANT INTERACTION BETWEEN THE PATHOGENIC P144L MUTANT OF FDX2 AND FDXR PROVIDES THE MOLECULAR GROUNDS OF AN ULTRA-RARE HUMAN GENETIC DISORDER	Fiorucci L. REDEFINING THE TOOLBOX TOWARDS PRECISE PARAMAGNETIC NMR PREDICTIONS AT ULTRAHIGH FIELDS			
	Plenary session Chair L. Bagana and M.P. Chiaratti				
12:45-13:25	Chair: L. Ragona and M.R. Chierotti Poster competition winner lectures				
13:25-13:30	Closing				
13:30-14:30	Lunch				