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NMR ASPECTS OF COLLOIDS SCIENCE

DECEMBER 11TH, 2017

Roma, Consiglio Nazionale delle Ricerche, Aula Marconi, Piazzale Aldo Moro, 7

Colloid science plays a central role in different disciplines (biology, chemistry, physics, material science, food science, nanomedicine) since colloids are involved in natural processes and daily life. Nuclear magnetic resonance spectroscopy has given a significant contribution in the investigation of colloidal systems because of its unique ability to elucidate molecular structure, dynamics and function. This workshop on NMR aspects of Colloids Science has an interdisciplinary purpose and will provide researchers from different disciplines with the opportunity to learn about the broad applicability of advanced NMR methodologies, as well as to appreciate the power of other methodologies, to study molecular structures, dynamics and interfaces of these complex systems.

PROGRAM

Registration 9.30-10.00	
10.00-10.10 Marco Geppi (GIDRM President) Opening remarks	asking more from chemistry®
Scientific Session 1	
10.10-10.40 Elena Curti (University of Parma)	
¹ H NMR Relaxometry to investigate complex food matrices: application on food hydrocolloids	People and ideas for innovation in health
10.45-11.15 Luciano Galantini (Sapienza University, Rome)	
Bile acid derivatives: from supramolecular to supracolloidal assembly	
Coffee Break 11.15-11.40	ROLE.
11.40-12.10 Fernando Porcelli (Tuscia University, Viterbo)	EONDAZIONE
Structure and lipid Interactions of newly designed antimicrobial peptides with	
enhanced activity and specificity against human pathogens	DE MARCO
12.15-12.45 Luigi Ambrosone (University of Molise)	
Manifacturing and applications of biomedical nanodevices	BRACCO
Lunch 12.50-14.25	
Scientific Session 2	
14.25-14.55 Fioretta Asaro (University of Trieste)	
Quadrupolar nuclei and self-diffusion coefficients in the structural and dynamic	🗣 🗣 Eurisotop
characterization of concentrated micellar systems by NMR	
15.00-15.30 Fabrizio Mancin (University of Padova)	
Self-organized nanoreceptors for discriminative NMR chemosensing	
15.35-16.05 Gerardo Palazzo (University of Bari)	
A pulsed gradient spin-echo NMR approach to the microstructure and interfacial	
composition of microemulsions	
16.10-16.40 Panel discussion and concluding remarks	
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Info

Registration deadline is **December 1st**, 2017 50 € for non-GIDRM members, inclusive of 2017 GIDRM membership; 30€ for 2017 GIDRM members

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Facoltà di Farmacia e Medicina Sapienza ARTIMENTO DI CHIMICA

Organizing Committee

Noemi Proietti, Donatella Capitani, Luisa Mannina, Anatoly Sobolev, Giovanna Mancini, Giorgio Giardini.

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