



CHIMICA SUPRAMOLECOLARE

Giornata dei Dottorandi

Programme



Rome
CNR – Aula Marconi
24-25 May 2018



INVITED SPEAKERS

Alessandro Sorrenti
Josè Augusto Berrocal

CONFERENCE CHAIRPERSONS

Cecilia Bombelli
Stefano Di Stefano

Organized by



Istituto di
Metodologie Chimiche



SAPIENZA
UNIVERSITÀ DI ROMA

Under the patronage of



Società Chimica Italiana



Dipartimento Scienze Chimiche e
Tecnologie dei Materiali



Consiglio Nazionale delle
Ricerche



Società Chimica Italiana
SEZIONE LAZIO

- 11.00 Registration
14.30 Opening Ceremony

Chairperson: Antonella Dalla Cort

Invited lectures

- 14.45 - 15.15 *“Beyond equilibrium self-assembly”*
Alessandro Sorrenti (ETH-Zurich)

Oral Presentations

- 15.15 – 15.35 *“(Hyper)branched highly fluorinated compounds for more sustainable self-assembled functional material”*
Marta Rosati (Politecnico di Milano)
- 15.35 – 15.55 *“Controlling Chemical Reactivity Through Self-Assembly”*
Maria A. Cardona (Università di Padova)
- 15.55 – 16.15 *“Selective methylene oxidation of linear alkyl amines with H₂O₂ catalyzed by a Mn-nonheme complex guided by supramolecular recognition”*
Alessia Barbieri (Università di Roma La Sapienza)
- 16.15-16.35 Coffee break

Chairperson: Riccardo Salvio

Flash Presentations

- 16.35 – 17.00 *“Reversible energy transfer to lanthanoid ions mediated by calixarenes”*
Federica Faroldi (Università di Parma – Curtin University, Perth)
- “Direct hydroxylation of benzene and aromatics with H₂O₂ catalyzed by a self-assembled iron complex: evidence for a metal-based mechanism”*
Giorgio Capocasa (Università di Roma La Sapienza)
- “Synthesis and Investigation of Croconates as Smart Organic Coating for Noble Metals Nanoparticles”*
Beatrice Cogliati (Università di Parma)
- “Synthesis and characterization of a paramagnetic [2]-rotaxane based on a crown ether-like wheel incorporating a nitroxide motif”*
Cecilia Poderi (Università di Bologna)
- “Investigating the Polarity of Silica Nanoparticles”*
Elahe Haddadi (Università di Bologna - Shiraz University, Shiraz, Iran)

Chairperson: Luigi Mandolini

Oral Presentations

- 17.00 – 17.20 *“Trifunctional calix[4]arene as mimic of DNA topoisomerase I for the promotion of phosphoryl transfer processes”*
Stefano Volpi (Università di Parma)
- 17.20 – 17.40 *“Dodecylcalix[n]arenes: new highly lipophilic members of the calixarene family”*
Andrea Magini (Università di Parma)
- 17.40 – 18.00 *“Effect of a non-innocent redox ligand on the reactivity of a [FeFe] hydrogenases mimic”*
Andrea Mele (CNRS - CEMCA, Brest)
- 18.00– 18.20 *“Uranyl-salophen complexes: useful platforms to investigate halide- π interactions in solution and in the solid state”*
Luca Leoni (Università di Roma La Sapienza)
- 20.00 *Social Dinner*

FRIDAY MAY 25

Chairperson: Stefano Di Stefano

Invited lecture

- 9.00 – 9.30 *“Can we use supramolecular architectures as CHEMICAL INFRASTRUCTURES ?”*
Josè Augusto Berrocal (University of Groningen and Eindhoven University of Technology)

Oral Presentations

- 9.30 – 9.50 *“Use of active template approach to the preparation of novel spin-labelled [2]rotaxanes”*
Lorenzo Gualandi (Università di Bologna)
- 9.50 – 10.10 *“Efficient active-template synthesis of calix[6]arene-based oriented rotaxanes and pseudorotaxanes”*
Margherita Bazzoni (Università di Parma)
- 10.10 – 10.30 *“Light-powered artificial molecular pumps”*
Martina Canton (Università di Bologna)
- 10.30 – 11.00 *Coffee break*

Chairperson: Osvaldo Lanzalunga

Oral Presentations

- 11.00 – 11.20 *“Light Harvesting Antennae Based on Silicon Nanocrystals”*
Sara Angeloni (Università di Bologna)
- 11.20 – 11.40 *“Porphyrinoids as multicomponent light-harvesting systems”*
Beatrice Berionni Berna (Università di Roma Tor Vergata)
- 11.40 – 12.00 *“Gold nanoparticles as designer drugs NMR detectors”*
Daniele Rosa-Gastaldo (Università di Padova)
- 12.00 – 12.20 *“Formation of Imidazo[1,5 - a]pyridine Derivatives Due to the Action of Fe²⁺ on Dynamic Libraries of Imines”*
Simone Albano (Università di Roma La Sapienza)
- 12.45 *Lunch*

Chairperson: Francesca Ceccacci

Flash Presentations

- 14.30 – 15.05 *“Protein stabilized nanoformulation of a superfluorinated ¹⁹F-MRI contrast agent”*
Nazeeha Ayaz (Politecnico di Milano)
- “Luminescent nanoparticles release from biocompatible polymeric fibers”*
Liviana Mummolo (Università di Bologna)
- “Nanoemulsion: a versatile formulation”*
Anna Imbriano (Università di Roma La Sapienza)
- “Catanionic mixtures of bile salt derivatives”*
Emilia Severoni (Università di Roma La Sapienza)
- “Glycosylated liposomes for targeting bacteria”*
Stefano Aiello (Università di Roma La Sapienza)
- “Self-assembling supramolecular structures as stimuli-responsive systems for sensing pH and anions in water”*
Valeria Caponetti (Università di Bologna)

Chairperson: Cecilia Bombelli

Oral Presentations

- 15.10 – 15.30 *“Antibacterial activity of (+)-usnic acid included in mixed liposomes containing structurally related L- prolinol derivatives”*
Sara Battista (Università dell’ Aquila)
- 15.30 – 15.50 *“Luminescent chemosensors for oxygen”*
Benedetta Del Secco (Università di Bologna)
- 15.50 – 16.10 *“Functional liposomes and multi-stimuli responsive polymers encompassing the versatile 2-(hydroxyimino)aldehyde group”*
Martina Nardi (Università di Roma La Sapienza)
- 16.10 – 16.40 *Coffee break*

Chairperson: Giovanna Mancini

Oral Presentations

- 16.40 – 17.00 *“New transparent colloidal TiO₂ nano-systems as efficient photocatalysts for environmental remediation”*
Arianna Menichetti (Università di Bologna)
- 17.00 – 17.20 *“Novel CuI-based Metal Organic Frameworks for sensing applications”*
Khaled Hassenein (CNR-ISOF Bologna)
- 17.20 – 17.40 *“Carboxylic Acids as Chemical Fuels for a Catenane Based Molecular Switch: Tuning the Motion Rate”*
Chiara Biagini (Università di Roma La Sapienza)
- 17.45 – 18.00 *Closing Remarks*