

**XLIV "A. CORBELLA" INTERNATIONAL SUMMER SCHOOL
ON ORGANIC SYNTHESIS – ISOS 2019
Gargnano (BS), Palazzo Feltrinelli, 9th – 13th June 2019**

ORGANIZING COMMITTEE

L. Lay, A. Casnati, S. Cauteruccio, V. Conte, R. Riva, J. Roletto, A. Zampella

PROGRAMME OF LECTURES

OPENING LECTURE

David A. Leigh (University of Manchester)

Making the tiniest machines

SUPRAMOLECULAR DEVICES AND THEIR APPLICATIONS

Jurriaan Huskens (University of Twente, Enschede)

Multivalent interactions: from molecular design to biological function

Keynote: **Francesco Sansone** (University of Parma)

Supramolecular tools for molecular delivery

SYNTHETIC METHODOLOGIES

Alessandro Massi (University of Ferrara)

Unconventional organocatalytic strategies by N-Heterocyclic Carbene (NHC) catalysis: umpolung reactivity and beyond

Martyn Poliakoff (University of Nottingham)

Towards greener photochemistry

Eelco Ruijter (Vrije Universiteit, Amsterdam)

Palladium-catalyzed intramolecular allylation in the synthesis of three- to seven-membered ring systems: substrate vs. catalyst control over absolute and relative stereochemistry

Keynote: **Alessandra Puglisi** (University of Milan)

Organocatalytic reactions in flow reactors

CARBOHYDRATES AND GLYCOCONJUGATES

Geert-Jan Boons (Utrecht University)

Enzymes for the synthesis of glycans and glycoconjugates

Alexei V. Demchenko (University of Missouri, St. Louis, USA)

From chemical glycosylation to expeditious oligosaccharide synthesis

Keynote: **Cristina De Meo** (Southern Illinois University, USA)

Protecting groups manipulations to gain stereocontrol in sialylation reactions

PHOTOCATALYSIS

Thorsten Bach (Technical University of Munich)

Enantioselective catalysis of photochemical reactions

Géraldine Masson (CNRS, Gif-sur-Yvette, France)

Visible light photoredox catalysis as a tool for functionalization and preparation of complex organic molecules

Keynote: **Daniele Leonori** (University of Manchester)

Photoinduced assembly of C–N bonds

SYNTHESIS OF FINE CHEMICALS

Marcello Rasparini (Janssen Pharmaceuticals, Beerse)

Evolution of an API from early to late development

NEW FRONTIERS IN ANALYTICAL METHODS

Daniel O. Cicero (IRBM and University of Rome "Tor Vergata")

Using NMR to study self-association and shape of organic molecules through diffusion measurements

Jesús Jiménez-Barbero (CICbioGUNE, Derio-Bilbao)

NMR and molecular recognition in the glycan world

SPECIAL SESSION

Martyn Poliakoff (University of Nottingham)

Mendeleev's and Primo Levi's gift to Education (and to me)