

**42nd "A. CORBELLA" INTERNATIONAL SUMMER SCHOOL
ON ORGANIC SYNTHESIS – ISOS 2017
Gargnano (BS), Palazzo Feltrinelli, 18th - 22nd June 2017**

ORGANIZING COMMITTEE

M. Benaglia, M. Bandini, G. Licini, R. Riva, A. Zampella, L. Pignataro

PROGRAMME OF LECTURES

OPENING LECTURE

Eric Anslyn (University of Texas)

Rapid supramolecular methods for reaction discovery

MOLECULAR RECOGNITION

Andrea Secchi (University of Parma)

Design and synthesis of calix[6]arene-based molecular machine prototypes

Keynote: **Miriam Mba Blázquez** (University of Padua)

Peptide-chromophore conjugates: from molecular design to self-assembly

ACTIVATION OF SMALL MOLECULES

Martin Albrecht (University of Bern)

Bond activation for catalysis — What can we learn from the metal (and the ligand)?

Thibault Cantat (NIMBE, CEA, CNRS, Gif-sur-Yvette)

Activation and catalytic conversion of CO₂ and SO₂ with reactive organic compounds

Jan Paradies (University of Paderborn)

Frustrated Lewis pair catalyzed hydrogenations and more

TOTAL SYNTHESIS

Antonio M. Echavarren (ICIQ, Tarragona)

Gold catalysis for the synthesis of natural products

Jieping Zhu (EPFL, Lausanne)

Metamorphosis of cycloalkenes: a bioinspired, non-biomimetic synthesis of indole alkaloids

BIOCATALYSIS

Wolfgang Kroutil (University of Graz)

Biocatalysis and biocascades in organic synthesis

Keynote: **Francesca Paradisi** (University of Nottingham)

Enzymes in the hands of chemists: a catalytic revolution

SYNTHESIS OF ACTIVE PHARMACEUTICAL INTERMEDIATES

Paolo Simone Tiseni (SICOR – TEVA Group)

Discoveries and challenges during process scale-up: the Palbociclib case

Ioannis Houpis (Janssen – API Development)

Diverse olefin synthesis via permutations of the Barluenga reaction

NATURE-INSPIRED ORGANIC SYNTHESIS

Markus Kalesse (Leibniz University of Hannover)

From biosynthesis to chemical synthesis: structural prediction and total synthesis

Keynote: **Alberto Minassi** (University of Piemonte Orient.)

Transannular electrophilic cyclization: a passe-partout in the synthesis of complex polycyclic compounds

ANALYTICAL METHODS

Maria Rosaria Conte (King's College London)

Insights into the complexity of protein-RNA recognition from the La-related protein superfamily

Keynote: **Filipa Marcelo** (Nova University of Lisbon)

A NMR guide to decode molecular recognition events

SPECIAL SESSIONS

Eric Anslyn (University of Texas)

Publishing papers: novelty, significance, and broad interest

Luigi Dei (University of Florence)

Maria Skłodowska Curie: the obstinate self-sacrifice of a genius