

**XLIII "A. CORBELLA" INTERNATIONAL SUMMER SCHOOL
ON ORGANIC SYNTHESIS – ISOS 2018
Gargnano (BS), Palazzo Feltrinelli, 10th – 14th June 2018**

ORGANIZING COMMITTEE

L. Lay, A. Casnati, V. Conte, L. Pignataro, R. Riva, A. Zampella

PROGRAMME OF LECTURES

OPENING LECTURE

Karl Anker Jørgensen (Aarhus University)

Organocatalysis - from lab to industry

SYNTHESIS OF NATURAL PRODUCTS

Erick Carreira (ETH Zürich)

Recent developments in strategies and tactics towards complex secondary metabolites including human-derived natural products

Keynote: **Tanja Gaich** (University of Konstanz)

Total synthesis of polycyclic natural products via cascade reactions

SYNTHETIC METHODOLOGIES

Belén Martín-Matute (Stockholm University)

Selective synthesis of halogenated organic compounds mediated by homogeneous and heterogeneous catalysts

Cristina Nevado (University of Zürich)

Teaching old metals new tricks

Keynote: **Stefania Terracciano** (University of Salerno)

The impact of new synthetic strategies for C-C bond formation in drug discovery

NANOSTRUCTURED CATALYSTS FOR SELECTIVE TRANSFORMATIONS

José M. Fraile (ISQCH-CSIC, Zaragoza)

Homogeneous (nano)catalysis for fine chemistry: enantioselective synthesis

Matteo Guidotti (ISTM-CNR, Milan)

Designing nanostructured heterogeneous catalysts for selective transformations

Keynote: **Marco Ranocchiari** (P. Scherrer Institute, Villigen)

Changing selectivity in organic reactions with metal-organic frameworks

RADICAL CHEMISTRY IN ORGANIC SYNTHESIS

David Procter (University of Manchester)

New radical cyclization cascades triggered by single electron transfer

Armido Studer (University of Münster)

Electron Catalysis

Keynote: **Michela Salamone** (Rome "Tor Vergata" University)

Hydrogen atom transfer based functionalization of aliphatic C-H bonds

SYNTHESIS OF FINE CHEMICALS

Chiara Bezze (Fabbrica Italiana Sintetici)

Genotoxic impurities in active pharmaceutical ingredients: strategies for their assessment and analytical evaluation

Laurent Lefort (InnoSyn B.V.)

New catalytic routes for the enantioselective synthesis of chiral piperidines

NEW FRONTIERS IN ANALYTICAL METHODS

Ramon Eritja (IQAC-CSIC, Barcelona)

Controlled organization of matter by DNA origami technology. Applications in life sciences

Giuliano Iacobellis (S.I.S. Carabinieri, Bari)

Fingerprint evaluation and analysis: the organic chemistry on trial

SPECIAL SESSIONS

Matteo Guidotti (ISTM-CNR, Milan)

From World War I to Syria, 100 years of chemical warfare agents

Marco Malvaldi, *Chemist and Novelist*

Understanding visible by invisible: the evolution of chemical thinking

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