

XLVII "A. CORBELLA" INTERNATIONAL SUMMER SCHOOL ON ORGANIC SYNTHESIS – ISOS 2023 18th – 22th June 2023

ORGANIZING COMMITTEE

D. Passarella, A. Dal Corso, D. Montesarchio, L. Pasquato, G. Piersanti, M. Pineschi, J. Roletto

PROGRAMME OF LECTURES

OPENING LECTURE

Ben L. Feringa - UNIVERSITY OF GRONINGEN

Dynamic Molecular Systems, from Switches to Motors

ARTIFICIAL INTELLIGENCE FOR ORGANIC SYNTHESIS

Scott E. Denmark - UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

*Application of Chemoinformatics and Machine Learning
to Enantioselective Catalysis:
the Challenge of Identifying General Catalysts*

Bartosz A. Grzybowski - IBS, KOREA; POLISH AC. OF SC.

Algorithmic Synthesis Planning and Reaction Discovery

Keynote: Sara Szymkuć - ALLCHEMY INC

Case Studies in Computer-Designed Synthesis Exploration

ANALYTICAL METHODS

Francesco Ricci - UNIVERSITY OF ROMA TOR VERGATA

Spatio-Temporal Control of DNA-Based Reactions and Structures

Alba Silipo - UNIVERSITY OF NAPOLI FEDERICO II

NMR Approaches to Study Interactions between Biomolecules

ORGANIC SYNTHESIS IN CHEMICAL BIOLOGY

Jerome Waser - SWISS FEDERAL INSTITUTE OF TECHNOLOGY, LAUSANNE

*Hypervalent Iodine Reagents
for Peptides and Proteins Modification*

Guido Clever - TECHNICAL UNIVERSITY DORTMUND

*Structural and Functional Complexity
via Metal-Mediated Self-Assembly*

SYNTHETIC METHODOLOGIES

Mark Lautens - UNIVERSITY OF TORONTO

Flipping a Switch: Reversible Reactions and More

Frank Glorius - UNIVERSITY OF MÜNSTER

On Discovery and Sensitivity in (Photo)catalysis

Keynote: Silvia Cauteruccio - UNIVERSITY OF MILANO

*Asymmetric Transition Metal Catalysis
toward Screw-Shaped Aromatic Compounds*

SYNTHESIS OF FINE CHEMICALS

Jochen Burghart - SEAGEN INTERNATIONAL GMBH

*Antibody-Drug Conjugates and Drug Linkers:
the Assurance for Controlled Delivery of the Cytotoxic Drug*

Daniele Andreotti - APTUIT - EVOTEC AG

*Applications and new Orientations of Organic Chemistry
in the Pharma industries*

PREBIOTIC CHEMISTRY

Steven A. Benner - FOUNDATION FOR APPLIED MOLECULAR EVOLUTION, USA

Synthesis of Oligomeric RNA is Expected on Early Earth

Matthew W. Powner - UNIVERSITY COLLEGE LONDON

On the Origins of Life: an Organic Chemist's Perspective

Keynote: Raffaele Saladino - UNIVERSITY OF TUSCIA

*Prebiotic Organic Chemistry of Formamide and the Origin of life:
What we Know and What is the Future*

SPECIAL SESSION

Gianfranco Pacchioni - UNIVERSITY OF MILANO BICOCCA

The Overproduction of Truth

www.corbellasummerschool.unimi.it

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