

41st "A. CORBELLA" INTERNATIONAL SUMMER SCHOOL ON ORGANIC SYNTHESIS – ISOS 2016 Gargnano (BS), Palazzo Feltrinelli, June 12-17, 2016

ORGANIZING COMMITTEE

M. Benaglia, M. Bandini, G. Bifulco, G. Licini, C. Nativi, L. Pignataro

2016 Additional Members: M. Bonchio, M. Albrecht (CARISMA COST ACTION – CM1205)

PROGRAMME OF LECTURES

OPENING LECTURE

Jeffrey W. Bode (ETH, Zürich)

Cross Coupling Approaches to Chiral, Saturated N-Heterocycles

REARRANGEMENTS AND ISOMERIZATIONS

Nuno Maulide (University of Vienna)

Organic Synthesis with Rearrangements: unusual C-C bond forming reactions

Clément Mazet (University of Geneva)

Iridium and Palladium in Selective Isomerizations

BASE METALS FOR SUSTAINABLE SYNTHESIS

Bas de Bruin (University of Amsterdam)

Cobalt-Catalyzed Radical-type Ring-Closing Reactions

Bert Klein Gebbink (Utrecht University)

Non-heme iron oxidation catalysis: from bio-inspiration to practical application

DRUG DISCOVERY AND SYNTHESIS OF ACTIVE PHARMACEUTICAL INTERMEDIATES

Elisabetta Armani (Chiesi Farmaceutici)

Medicinal chemistry and synthesis optimization in the drug discovery process for pulmonary delivery: two case histories

Michelangelo Scalone (F. Hoffmann-La Roche)

The Importance of Catalysis in the Synthesis of Active Pharmaceutical Ingredients

FUNCTIONAL NANOMATERIALS FOR BIOMEDICAL RESEARCH

M. Carmen Galan (University of Bristol)

Functional Glyco-nanomaterials for Biological Research

Sandrine Gerber (EPFL, Lausanne)

Nanomaterials for biomedical research: design, functionalization and applications

NEW SYNTHETIC METHODOLOGIES

David O'Hagan (University of St Andrews)

Fluorine as a stereoelectronic tool in the design of performance organic compounds

ANALYTICAL METHODS

Craig Butts (University of Bristol)

Getting the most from NMR - When chemical shift and couplings are just not enough

KEYNOTE LECTURES

Andrea Gualandi (University of Bologna)

Back to the "iron age": recent developments in iron-catalysed chemical transformations

Silvia Marchesan (University of Trieste)

Chemistry of Soft Matter: from macromolecular to supramolecular hydrogels

Daniela Montesarchio (University of Naples)

Mimicking organic metabolites: Nature-inspired drug synthesis

Vera Muccilli (University of Catania)

Modern techniques in mass spectrometry and their application in organic chemistry

Barbara Richichi (University of Florence)

A Vintage reaction in modern chemistry and biology: what Diels and Alder would think about it?

SPECIAL SESSIONS

Silvia Cei (University of Bologna)

Career opportunities within the Marie Skłodowska-Curie actions

Riccardo Patacchini (Chiesi Farmaceutici)

Drug Discovery and Development: a challenging enterprise for chemists and biologists