

ESF-COST High-Level Research Conference

Natural Products Chemistry, Biology and Medicine II

Hotel Villa del Mare, Acquafredda di Maratea • Italy
29 August - 3 September 2009

Chair: **Bruno Botta**, University "La Sapienza", IT
Vice-Chair: **Dieter Schinzer**, University of Magdeburg, DE

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With support from



Preliminary Programme

This conference will focus on the combination and interaction of natural products, drug discovery, synthetic chemistry, and biotransformation. This allows for attractive routes to prepare complex compounds able to mitigate biological processes that may lead to improved treatments for various diseases. The conference will cover the latest advances in our understanding of the importance of natural products within combinatorial chemistry. Related areas such as chemical synthesis technologies and isolation biotechnology will be addressed as well.

Understanding biological mechanisms will lead to more a rapid and better targeted discovery of clinically designed drugs. A complex interplay between all these topics is under development. This integrated meeting will look at the whole field and will be an excellent forum for cross-disciplinary discussions, collaborations, and training for young students.

Although the majority of the speakers and attendees will be from the EU, representatives from the US, Japan and South America will also take part.

Invited Speakers will include

▪ **Karl-Heinz Altmann**

Eidgenössische Technische Hochschule (ETH) Zürich, CH
Natural Products as Leads in Drug Discovery

▪ **Maurizio Botta**

Siena University, IT
Verbesina Caracasana as Font of New Hits for Diverse Targets

▪ **Teresa Carlomagno**

European Molecular Biology Laboratory (EMBL) Heidelberg, DE
Lecture title TBA

▪ **Stephen Clark**

University of Glasgow, UK
Total Synthesis of Marine Cembranoid Natural Products as Potential Anti-Cancer Agents

▪ **Francesco Gasparrini**

University "La Sapienza", IT
Modern Enantioselective Chromatographic Techniques: a Powerful and Versatile Tool in the Study of Chiral Compounds

▪ **Trond Vidar Hansen**

University of Oslo, NO
Applications of an Ortho-Formylation Method for the Synthesis of Bioactive Compounds

▪ **Adolfo Iribarren**

National University of Quilmes (UNQ), Buenos Aires, AR
Lecture title TBA

▪ **Markus Kalesse**

University of Hanover, DE
Natural Products as Starting Points for Anti-Infectives and Anti-Tumor Research

▪ **Martin E. Maier**

University of Tübingen, DE
Challenges and Solutions in the Synthesis of Natural Products

▪ **István E. Markó**

Catholic University of Louvain (UCL), BE
Towards the Efficient Synthesis of Complex Natural Products

▪ **Ian Paterson**

University of Cambridge, UK
Synthesis of Marine Polyketides as Promising Anticancer Agents

▪ **Emmanuel Pitsinos**

National Centre for Scientific Research "DEMOKRITOS", GR
Scyphostatin, a Potent and Selective N-SMase Inhibitor

▪ **Troels Skrydstrop**

University of Aarhus, DK
New Developments in C–C and C–Si Bond Forming Reactions

▪ **Keisuke Suzuki**

Tokyo Institute of Technology, JP
Lecture title TBA

▪ **Kuniaki Tatsuta**

Waseda University Tokyo, JP
Lecture title TBA

▪ **Nicolas Winssinger**

University of Strasbourg, FR
From Natural Product Inspired Libraries Towards Small Molecule Evolution