

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.

## RESEARCH CONFERENCES

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

Organising Committee: Trond Vidar Hansen - University of Oslo, NO; Georgios E. Vassilikogiannakis - University of Crete, EL; Nicolas Winssinger - Université Louis Pasteur, FR



© K.C. Nicolaou, The Scripps Research Institute,  
US

### Invited Speakers will include

**K.-H. Altmann** - ETH Zürich, CH  
*Natural Products as Leads in Drug Discovery*

**M. Botta** - Siena U., IT  
*Verbesina Caracasana as Font of New Hits for Diverse Targets*

**T. Carlomagno** - EMBL Heidelberg, DE

**S. Clark** - Glasgow U., UK  
*Total Synthesis of Marine Cembranoid Natural Products as Potential Anti-Cancer Agents*

**F. Gasparrini** - U. "La Sapienza", IT  
*Modern Enantioselective Chromatographic Techniques: a Powerful and Versatile Tool in the Study of Chiral Compounds*

**T.V. Hansen** - Oslo U., NO  
*Applications of an Ortho-Formylation Method for the Synthesis of Bioactive Compounds*

**A. Iribarren** - UNQ Quilmes, Buenos Aires, AR

**M. Kalesse** - Hannover U., DE  
*Natural Products as Starting Points for Anti-Infectives and Anti-Tumor Research*

**M.E. Maier** - Tübingen U., DE  
*Challenges and Solutions in the Synthesis of Natural Products*

**I.E. Markó** - UCL Louvain, BE  
*Towards the Efficient Synthesis of Complex Natural Products*

**I. Paterson** - Cambridge U., UK  
*Synthesis of Marine Polyketides as Promising Anticancer Agents*

**E. Pitsinos** - NCSR "DEMOKRITOS", EL  
*Scyphostatin, a Potent and Selective N-SMase Inhibitor*

**T. Skrydstrop** - Aarhus U., DK  
*New Developments in C-C and C-Si Bond forming Reactions*

**K. Suzuki** - Tokyo Tech, JP

**K. Tatsuta** - Waseda U. Tokyo, JP

**N. Winssinger** - Strasbourg U., FR  
*From Natural Product Inspired Libraries towards Small Molecule Evolution*

Application Form & Programme available from

[www.esf.org/conferences/09299](http://www.esf.org/conferences/09299)

Closing Date for Application extended to 19 July 2009

European Science Foundation | Research Conferences Unit  
149 avenue Louise | Box 14 | Tour Generali, 15th Floor | Brussels | Belgium  
Tel: + 32 (0)2 533 2020 | Fax: +32 (0)2 538 8486  
Email: [conferences@esf.org](mailto:conferences@esf.org) | [www.esf.org/conferences](http://www.esf.org/conferences)