

## RESEARCH CONFERENCES

ESF-COST High-Level Research Conference

# Natural Products Chemistry, Biology and Medicine II

Hotel Villa del Mare, Acquafredda di Maratea • Italy  
5 - 10 September 2010

Chair: **Jef K. De Brabander**, The University of Texas  
Southwestern Medical Center at Dallas, Department of Biochemistry  
and Simmons Comprehensive Cancer Center, US  
Vice-Chair: **Dieter Schinzer**, University of Magdeburg, DE

Organising Committee: **Trond Vidar Hansen**, University of  
Oslo, NO • **Mathias Christmann**, Dortmund University of  
Technology, DE

[www.esf.org/conferences/10344](http://www.esf.org/conferences/10344)



**Sunday 5 September**

17:00 - 19:00 Registration at ESF-COST Desk

19:00 Welcome Drink

20:00 Dinner

**Monday 6 September**

8:35 - 08:45 Conference Opening  
**Jef K. De Brabander** - Conference Chair, The University of Texas Southwestern Medical Center at Dallas, Department of Biochemistry and Simmons Comprehensive Cancer Center, US

08:45 - 09:00 Introduction by ESF and COST  
**Erwan Arzel** - COST Office

**Session 1:**

**Chair: Mathias Christmann** - Dortmund University of Technology, DE

09:00 - 09:45 **Jieping Zhu** - Institut de Chimie des Substances Naturelles (CNRS), FR  
*Total Syntheses of Complestatin and Saframycins*

09:45 - 10:30 **Giovanni Appendino** - Universita del Piemonte Orientale, IT  
*Exploring the Chemical Space with Plant Natural Products: Bleeding Horses, Everlasting Flowers, and the Headache Tree*

10:30 - 11:00 Coffee Break

11:00 - 11:45 **Janine Cossy** - École Supérieure de Physique et de Chimie Industrielle (ESPCI), FR  
*Natural Products: Potential Access to Antitumor Agents*

11:45 - 12:30 **Edward Anderson** - University of Oxford, UK  
*The Schisandra Triterpenoid Natural Products: An Inspiration for Methodology and Synthesis*

12:30 Lunch

**Session 2:**

**Chair: Arthur Catino** - Harvard University, US

16:00 - 16:20 **Kaliappan Krishna** - Indian Institute of Technology Bombay, IN  
*Synthetic Studies on Palmerolide A and Phostriecin* (short talk)

16:20 - 16:40 **Luisella Verotta** - Università degli Studi di Milano, IT  
*New (+)-Usnic Acid Derivatives as Dual-Target Antimalarial Agents* (short talk)

16:40 - 17:00 Coffee Break

17:00 - 17:20 **Rebecca Goss** - University of East Anglia, UK  
*New un-Natural Products: Gene Expression Enabling "Click?"*(short talk)

17:20 - 17:40 **Michael Brown** - Harvard University, US  
*Development of New Chiral Catalysts for the Enantioselective Total Synthesis of Clavirolide C* (short talk)

17:40 - 18:25 **P. Andrew Evans** - University of Liverpool, UK  
*Unlocking Natural Secrets in Natural Product Synthesis*

19:00 Dinner

20:30 - 22:00 Poster Session

**Tuesday 7 September****Session 3:**

**Chair: Jef K. De Brabander** - The University of Texas Southwestern Medical Center at Dallas, Department of Biochemistry and Simmons Comprehensive Cancer Center, US

09:00 - 09:45 **Annemieke Madder** - University Of Gent, BE  
*Furan Modified DNA Building Blocks: A Toolbox for Crosslinking, Ligation and Secondary Structure Analysis*

**Tuesday 7 September**

09:45 - 10:30 **John MacMillan** - UT Southwestern Medical Center, US  
*Targeting Opportunistic Pathogens with Marine Microbe Derived Natural Products*

10:30 - 11:00 Coffee Break

11:00 - 11:45 **John Wood** - Colorado State University, US  
*Recent Advances in the Synthesis of Oxindole-Containing Natural Products*

11:45 - 12:30 **Karl Hansen** - Amgen, US  
*Process Synthesis of Unnatural Products*

12:30 Lunch

**Session 4:**

**Chair: Bruno Botta** - University "La Sapienza", IT

16:00 - 16:20 **Luciana Gonzaga de Olivera** - University of Campinas, BR  
*Finding Potential Antibiotic Metabolites in Endophytic Streptomyces Using Metabolic Probes* (short talk)

16:20 - 16:40 **Reem Smoum** - The Hebrew University of Jerusalem, IL  
*Oleoyl Serine is Present in Bone and Modulates Skeletal Remodeling and Mass* (short talk)

16:40 - 17:00 Coffee Break & Group Photo

17:00 - 17:20 **Jérôme Waser** - Ecole Polytechnique Fédérale de Lausanne, CH  
*Formal Homo-Nazarov Cyclization: Applications in the Synthesis of Indole Alkaloids* (short talk)

17:20 - 17:40 **Xiaoguang Lei** - National Institute of Biological Sciences Beijing, CN  
*Exploring the Structural Diversity and Biological Activity of Complex Natural Products* (short talk)

17:40 - 18:25 **Dirk Trauner** - Ludwig-Maximilians-Universität München, DE  
*Finding the Limits of Biomimetic Synthesis*

19:00 Dinner

20:30 - 22:00 Poster Session

**Wednesday 8 September****Session 5:**

**Chair: Dieter Schinzer** - University of Magdeburg, DE

09:00 - 09:45 **Bruno Botta** - University "La Sapienza", IT  
*The Combination of Chemistry with Biochemistry: An Attractive Hyphenation to the Production of Aromatic Natural Compounds*

09:45 - 10:30 **Joelle Prunet** - University of Glasgow, UK  
*Taxol: Synthesis and Metathesis*

10:30 - 11:00 Coffee Break

11:00 - 11:45 **Andreas Kirschning** - Leibniz Universität Hannover, DE  
*Total-, Semi- and Mutasynthesis - Three Faces of One Coin*

11:45 - 12:30 **Nicolai Cramer** - Eidgenössische Technische Hochschule Zürich (ETH), CH  
*Molecular Complexity through Enantioselective C-H and C-C Bond Activations*

12:30 Lunch

15:00 - 19:00 Excursion

20:00 Dinner

**Thursday 9 September****Session 6:**

**Chair: Trond Vidar Hansen** - University of Oslo, NO

09:00 - 09:45 **Mathias Christmann** - Technische Universität Dortmund, DE  
*Organocatalytic Synthesis of Bioactive Molecules*

**Thursday 9 September**

09:45 - 10:30	<b>Alfonso Mangoni</b> - Università degli Studi di Napoli Federico II, IT <i>Glycopipids from Marine Sponge</i>
10:30 - 11:00	Coffee break
11:00 - 11:45	<b>Paolo Melchiorre</b> - Institut Català d'Investigació Química, ES <i>Aminocatalytic Domino Reactions: A Cascade of Possibilities</i>
11:45 - 12:30	<b>Timothy Donohoe</b> - University of Oxford, UK <i>New Synthetic Methodology Developed for the Efficient Synthesis of Natural Products</i>
12:30	Lunch

**Session 7:****Chair: Robert Webb** - RW Consulting, US

16:00 - 16:20	<b>Anthony Burke</b> - Universidade de Evora, PT <i>Catalytic Enantioselective Arylation of Activated Imines: A Powerful Approach to Biologically Active Amines</i> (short talk)
16:20 - 16:40	<b>Noah Burns</b> - Harvard University, US <i>Scalable Total Synthesis of Haouamine A and its Atropisomer</i> (short talk)
16:40 - 17:00	Coffee break
17:00 - 17:45	<b>Victor Snieckus</b> - Queen's University, CA <i>Aromatic/Heteroaromatic Metalation – Transition Metal Catalysis Partnership</i>
17:45 - 18:30	<b>Brian Stoltz</b> - California Institute of Technology, US <i>Complex Natural Products as a Driving Force for Discovery in Organic Chemistry</i>
18:30 - 19:15	Forward Look Plenary Discussion
20:00	Get-together and Conference Dinner

**Friday 10 September**

08:00	Breakfast and Departure
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