

## RESEARCH CONFERENCES

ESF-COST High-Level Research Conference

# Natural Products Chemistry, Biology and Medicine IV

Hotel Villa del Mare, Acquafredda di Maratea • Italy  
28 August – 2 September 2011

**Chair: Ari Koskinen** - Aalto University, FI

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

**Organising Committee: Bruno Botta** - Sapienza  
University, IT • **Jef K. De Brabander** - The University of  
Texas Southwestern Medical Center at Dallas, US •  
**Trond Vidar Hansen** - University of Oslo, NO

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# Final Programme

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## Sunday 28 August

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17.00	Registration at the ESF-COST desk
19.00	Welcome Drink
20.00	Dinner

## Monday 29 August

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09.00 - 09.10	Conference Opening by the Conference Chair <b>Ari Koskinen</b> Aalto University, FI
09.10 - 09.30	Introductions by ESF/ COST <b>Lucia Forzi</b> COST Office, BE

## Session 1

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

09.30 - 10.30	<b>Timothy C. Gallagher</b> University of Bristol, UK <i>Natural Products as Leads to Nicotinic Agonists</i>
10.30 - 11.00	Coffee break
11.00 - 12.00	<b>Franz von Nussbaum</b> Bayer Schering Pharma AG, DE <i>Chemical Postevolution of Natural Antibiotics</i>
12.00 - 12.20	<b>Nuno Maulide</b> Max-Planck-Institut für Kohlenforschung, DE <i>Catalytic Asymmetric Synthesis of Cyclobutenes: Towards the Synthesis of Natural Products</i>
12.20 - 12.40	<b>Erik Van der Eycken</b> Katholieke Universiteit Leuven, BE <i>Microwaves in the Synthesis of Medium-Sized Ring-Containing Natural Products and Analogues</i>
12.45	Lunch

## Session 2

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

16.00 - 17.00	<b>William J. Kerr</b> University of Strathclyde, UK <i>Emerging Metal-mediated Methods; Applications in Natural Product Synthesis</i>
17.00 - 18.00	<b>Tomas Hudlicky</b> Brock University, CA <i>Biocatalytic Syntheses of Natural Products and Derivatives in the Area of Pain Control, Cancer, and Viral Infections</i>

18.00 - 18.30	Coffee break
18.30 - 19.30	<b>Poster session 1</b> Chaired by: Jef K. De Brabander and Trond Vidar Hansen
20.00	Dinner

## Tuesday 30 August

### Session 3

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

09.00 - 10.00	<b>Hans-Joachim Knölker</b> TU Dresden, DE <i>Synthesis of Highly Specific Inhibitors of beta-Secretase and Myosin ATPase – New Prospects for Drug Development</i>
10.00 - 11.00	<b>Peter Gmeiner</b> University of Erlangen-Nuremberg, DE <i>Privileged Structures for the Activation of G-protein Coupled Receptors</i>
11.00 - 11.30	Coffee break
11.30 - 12.30	<b>Hartmuth Laatsch</b> University of Göttingen, DE <i>Metabolites are the Words of Nature. But who is Listening, and what is the Grammar?</i>
12.30 - 12.50	<b>Anthony Burgett</b> Harvard University, US <i>Oxysterol Binding Proteins Are the Cellular Targets of the Antiproliferative Natural Products Cephalostatin 1, OSW-1, Ritterazine B and Schweinfurthin A</i>
12.50 - 13.10	<b>Jiong Yang</b> Texas A&M University, US <i>Toward the total synthesis of norzoanthamine</i>
13.10 - 13.30	<b>Martin E. Maier</b> Tuebingen University, DE <i>Towards the total synthesis of pladienolide B</i>
13.30	Lunch

### Session 4

Chair: **Bruno Botta**, Sapienza University, IT

15.30 - 16.30	<b>Francesco Nicotra</b> University of Milano Bicocca, IT <i>Tools for Biomedical Applications Decorated with Natural Products and Mimetics</i>
16.30 - 17.30	<b>Alba Silipo</b> University of Naples, IT <i>Microbial Glyco-conjugates and Eukaryotic Innate Immunity</i>
17.30 - 18.00	Coffee break
18.00 - 18.20	<b>Matthew John Fuchter</b> Imperial College London, UK <i>Natural Product Inspiration for Epigenetic Inhibition</i>
18.20 - 18.40	<b>Markus Kalesse</b> Leibniz University of Hannover, DE <i>The Synthesis of Secondary Metabolites from Myxobacteria</i>

18.40 - 19.00	<b>Evgeny Prusov</b> Helmholtz Centre for Infection Research, DE <i>Ripostatin Analogs: The Quest for Stability and Activity</i>
19.00 - 20.00	<b>Poster session 2</b> Chaired by: Ari Koskinen and Dieter Schinzer
20.00	Dinner
22.00	Football match

### Wednesday 31 August

#### Session 5

Chair: **Stephen Clark**, University of Glasgow, UK

09.00 - 10.00	<b>Hans-Jürgen Federesel</b> AstraZeneca, SE <i>Driving a Green Chemistry Agenda in Pharmaceutical Process Development and Scale Up</i>
10.00 - 11.00	<b>Raffaele Riccio</b> University of Salerno, IT <i>Nature Aided Drug Discovery Approaches to Target Identification Based on Chemical Proteomics and Inverse Virtual Screening</i>
11.00 - 11.30	Coffee break
11.30 - 12.30	<b>Thomas E. Nielsen</b> Technical University of Denmark, DK <i>Synthesis of Heterocycles through a Ruthenium-Catalyzed Tandem Ring-Closing Metathesis-Isomerization-Cyclization Sequence</i>
12.30 - 13.30	<b>Jim Thomas</b> The University of Manchester, UK <i>Lecture Title TBA</i>
13.30 - 15.30	Lunch
15.30 - 19.00	Half-day excursion to Maratea
19.30	Pizza party & live music evening

### Thursday 1 September

#### Session 6:

Chair: **Ari Koskinen**, Aalto University, FI

09.00 - 10.00	<b>Hisashi Yamamoto</b> University of Chicago, US <i>Asymmetric Catalysis</i>
10.00 - 11.00	<b>Antonio M. Echavarran</b> Institute of Chemical Research of Catalonia, ES <i>Building Molecular Complexity via Gold Catalysis</i>
11.00 - 11.30	Coffee break
11.30 - 11.50	<b>Gong Chen</b> The Pennsylvania State University, US <i>Streamlined Syntheses of Natural Products via Catalytic C-H</i>

*Functionalization*

11.50 - 12.10

**Stephen Clark**

University of Glasgow, UK

*Approaches to the Synthesis of Polycyclic Natural Products that Contain Medium-Sized Rings*

12.10 - 12.30

**Uttam Tambar**

University of Texas Southwestern Medical Center, US

*Stereoselective Catalysis of [2,3]-Rearrangements*

12.30

Lunch

## Session 7

**Chair: Jef K. De Brabander**, The University of Texas Southwestern Medical Center at Dallas, US

16.00 - 17.00

**Jon D. Rainier**

University of Utah, US

*Targeting Heterocyclic Natural Products at 4700 Feet Above Sea Level*

17.00 - 18.00

**Paul Wender**

Stanford University, US

*The Chemistry-Medicine Continuum: First-in-class Strategies for Eradicating HIV/AIDS, Overcoming Cancer Resistance and Treating Alzheimer's Disease*

18.00 - 18.30

Coffee break

18.30 - 19.00

Forward Look Plenary Discussion

20.00

Get-together & Conference Dinner

## Friday 2 September

Breakfast & Departure