Natural Product Inspired Chemistry

The natural product inspired chemistry symposium, arranged 11 March 2014 in Umeå, will provide enthralling stories from researchers who have all been inspired by natural products and the synthetic challenges involved. Lectures from scientists who, in joint venture with micro organisms, create new natural products analogues with interesting biological activities. We hope and believe that this Trends in Organic Chemistry symposium in Umeå will be meaningful for everyone within the field, from organic chemistry, calculational chemistry to molecular biologists and medicinal chemists.

Natural products have in all times inspired chemists. They have always been, and are still today, out most common resource for new pharmaceutical drugs. Since many natural products are highly complex and entail complicated synthetic challenges they have been a source of inspiration and development of methods for synthesis. The synthesis process development has also resulted in very advanced computer based calculation methods. Within chemical biology, a growing number of natural products with specific activity are used at chemical tools to provide a more profound insight to complex biological relations.

Speakers
Vanderlan da Silva Bolzani, São Paulo State University
Andreas Kirschning, Leibniz University of Hannover
David J Procter, University of Manchester
Herbert Waldmann, Max Planck Institute of Molecular Physiology, Dortmund
Olaf Wiest, University of Notre Dame
Dan Yang, University of Hong Kong

The TOC-symposia are one-day meetings arranged by the Division for organic chemistry to cover an important topic of modern organic chemistry. The symposia normally attract around one hundred participants from Sweden and abroad. Participation in the symposium, including lunch, costs SEK 100, paid in cash on site. Welcome!

Read more and register at:  www.tocsymposia.se
Program - 11 March 2014

09:00 - 10:00 Coffee, sandwich and registration

10:00 - 10:10 Welcome
Fredrik Almqvist & Anna Linusson

10:10 - 11:00 Brazilian biodiversity - a sophisticated lab of biologically active compounds
Vanderlan da Silva Bolzani, São Paulo State University, Brazil

11:00 - 11:50 Learning from nature - chemical synthesis at the interface to biology
Andreas Kirschning, Leibniz University of Hannover, Germany

11:50 - 13:00 Lunch

13:00 - 13:50 Designing cascade approaches to natural product architectures
David J Procter, University of Manchester, UK

13:50 - 14:40 Biology-oriented synthesis
Herbert Waldmann, Max Planck Institute of Molecular Physiology, Dortmund, Germany

14:40 - 15:10 Coffee break

15:10 - 16:00 Making (sense) of natural products
Olaf Wiest, University of Notre Dame, USA

16:00 - 16:50 Inspiration from natural products - new synthetic methods, probes and protein targets
Dan Yang, University of Hong Kong, China

16:50 - 17:00 Concluding remarks
Fredrik Almqvist & Anna Linusson

17:00 - 18:00 TOC mingle and refreshments