

# Symposia

<b>Analytical &amp; Food Chemistry (AC)</b>	<h2>Natural Products and Biodiversity (NB)</h2> <p>Historically, natural products are one of the oldest chemical areas of investigation and have been an inspiration for several Chemical, Pharmaceutical, Medical and Ecological research fields. From the elegance of a single structure to the intricacy of complex molecules, the diversity of natural compounds have been the subject of classical</p>
<b>Chemistry Education (CE)</b>	
<b>Chemistry for Industry Innovation (CI)</b>	
<b>Chemical Synthesis (CS)</b>	
<b>Energy, Water and Environmental Sciences (EE)</b>	
<b>Green Chemistry and Biotechnology (GB)</b>	
<b>Inorganic and Structural Chemistry (IC)</b>	
<b>Macromolecules and Materials (MM)</b>	

**Medicinal Chemistry and Chemical Biology (MC)**

**Nano Science and Technology (NT)**

**Natural Products and Biodiversity (NB)**

**Physical, Biophysical and Computational Chemistry (PC)**

phytochemical and chemotaxonomy studies and of modern metabolomics and biosynthetics approaches alike, looking to produce relevant biological and pharmacological models to afford new therapeutic agents for human and animals disease or for agriculture evolution. In this scenario, the symposium is devoted to trail the recent progress in fundamental and applied science related to Natural Products Chemistry.

**Symposium Organizers:** Paulo Cezar Vieira (Chemistry Department- Federal University of São Carlos, São Carlos, Brazil - paulocezarv@gmail.com) and Pieter Dorrestein (Skaggs School of Pharmacy and Pharmaceutical Sciences, University of San Diego, San Diego, USA - pdorrestein@ucsd.edu)

## Topics

**11.1 Biological and Pharmacological Activity of Natural Products**

**11.2 Chemical Ecology and Agrochemicals**

**11.3 Biosynthesis and Molecular Biology of Natural Products**

**11.4 Chemistry of Marine Organisms**

**11.5 Advances in Natural Products Chemistry Analytical Protocols**

**11.6 Omics Frontiers of Natural Products**

## Keynote Lectures Accepted Invitations

**CHRISTOPHER S. JEFFREY**

**UNITED STATES**

EXPLORATION OF ECOLOGICAL INTERACTIONS DRIVES CHEMICAL INNOVATION

**JEAN LUC WOLFENDER**

**SWITZERLAND**

CHERRY PICKING OF VALUABLE NATURAL PRODUCTS ONLY BASED ON DEEP

**METABOLOME INVESTIGATION OF PLANT  
EXTRACTS****JOHN PICKETT****UNITED KINGDOM**

NATURAL PRODUCTS IN AGRICULTURE:  
DELIVERY OF CHEMICAL SIGNALS VIA GM  
AND COMPANION PLANTING FOR CROP  
PROTECTION AND PRODUCTION

**PIETER DORRESTEIN****UNITED STATES**

DIGITIZING THE CHEMISTRY OF MICROBES

**RAYMOND J ANDERSEN****CANADA**

BIOLOGICALLY ACTIVE MARINE NATURAL  
PRODUCTS: DISCOVERY, SAR, AND  
INTERACTIONS WITH PROTEIN TARGETS

**Invited Lectures Accepted  
Invitations****AUGUSTO ETCHEGARAY****BRAZIL**

GENOME ANALYSIS OF BACILLUS  
AMYLOLIQUEFACIENS 0G: EXPLORING THE  
PRODUCTION OF SECONDARY  
METABOLITES USING ANTISMASH, NORINE  
AND HPLC

**CHRISTIAN JANFELT****DINAMARCA**

MASS SPECTROMETRY IMAGING OF  
DRUGS, METABOLITES AND NATURAL  
PRODUCTS

**LESLIE GUNATILAKA****UNITED STATES**

TRADITIONAL MEDICINE INSPIRED  
DISCOVERY OF NATURAL PRODUCTS-  
BASED ANTICANCER AGENTS



**MARIA FÁTIMA DAS GRAÇAS  
FERNANDES DA SILVA****BRAZIL**

CHROMATOGRAPHIC FINGERPRINTING  
AND QUANTITATIVE ANALYSIS APPLIED TO  
EARLY DIAGNOSIS OF CITRUS DISEASES

**MASSUO JORGE KATO****BRAZIL**

CHEMICALLY MEDIATED MULTI-TROPHIC  
INTERACTIONS IN THE TROPICS

**MAYSA FURLAN****BRAZIL**

EMPOWERING BIOACTIVE METABOLITE  
PRODUCTION BY INTEGRATIVE MULTI-  
DOMAIN OMICS

**NORBERTO PEPORINE LOPES****BRAZIL**

MASS SPECTROMETRY TECHNIQUES FOR  
METABOLOMICS AND TISSUES IMAGING  
OF NATURAL PRODUCTS

**NORMAN G. LEWIS****UNITED STATES**

RECENT ADVANCES IN UNRAVELLING AND  
EXPLOITING BIOCHEMICAL PATHWAYS TO  
AROMATIC FLAVORS/FRAGRANCES AND  
LIGNAN-DERIVED PHARMACEUTICALS

**PAULO HENRIQUE G. ZARBIN****BRAZIL**

ANTI-APHRODISIAC PHEROMONES OF  
HELICONIUS ERATO PHYLLIS AND  
HELICONIUS ETHILLA NARCAEA  
(NYMPHALIDAE, HELICONIINAE)

**ROBERTO BERLINCK****BRAZIL**

HOW THE EXPRESSION OF SECONDARY  
METABOLISM CAN BE UNDERSTOOD?



Sponsorship - VIP Quota



(<http://www.acs.org>)

**ThermoFisher**  
S C I E N T I F I C

(<http://www.thermofisher.com>)



Sponsorship - Plus Quota



(<http://www.shimadzu.com.br>)

# Waters

THE SCIENCE OF WHAT'S POSSIBLE.®

([http://www.waters.com/waters/home.htm?locale=pt\\_BR](http://www.waters.com/waters/home.htm?locale=pt_BR))

Sponsorship - Standard Quota

