



**TECHNISCHE  
UNIVERSITÄT  
DRESDEN**



DRESDEN  
concept

19th International  
Congress of the Society  
for Ethnopharmacology  
June 12th – 14th, 2019  
Dresden, Germany



## Program

Please note, that the on site registration starts on Wednesday 8:00 a.m at the Hörsaalzentrum Dresden, Bergstraße 64, 01069 Dresden.

### DAY 1 - Wednesday, June 12th

08:45 – 09:15

**Opening of the conference and welcome addresses**

Chair:

**Günter Vollmer**, Technische Universität Dresden, Germany  
President of the 19<sup>th</sup> International Congress of Ethnopharmacology  
**Thea Lautenschläger**, Technische Universität Dresden  
**Oliver Zierau**, Technische Universität Dresden, Germany  
**Guillermo Schmeda-Hirschmann**, University of Talca, Chile  
President of the International Society for Ethnopharmacology

Guests:

Representative of the Technische Universität Dresden  
**Clemens Kirschbaum**, Chair Person of the School of Science  
**Christoph Neinhuis**, Dean of Faculty of Biology

09:15 – 10:15

**Panel discussion: 50 years of Ethnopharmacology, 40 years of Journal of Ethnopharmacology**

Moderator:

**Caroline Weckerle**, Universität Zürich, Switzerland

Panel members:

**Peter Houghton**, Kings College London, UK; former president of ISE  
**Guillermo Schmeda-Hirschmann**, University of Talca, Chile; president of the International Society for Ethnopharmacology  
**Thea Lautenschläger**, Institute of Botany, Technische Universität Dresden, Germany; Ethnobotany in Angola  
**René Roth-Ehrang**, Finzelberg GmbH und Co. KG, Germany; representative of industry  
**Cica Vissiennon**, Institute for Medical Physics and Biophysics, University of Leipzig, Germany; representative of young investigators

<b>10:15 – 12:15</b>			<b>Plenary lecture 1 (P1) : Targets and Target Identification</b>		
Chair: Oliver Zierau, Technische Universität Dresden, Germany					
10:15 – 10:45	<b>Christian Hannig</b> Technische Universität Dresden, Germany	Polyphenols and plant extracts in preventive dentistry – modification of initial oral bioadhesion ( <b>abstract P1-01</b> )			
<b>10:45 – 11:15</b>			<b>Coffee break</b>		
11:15 – 11:45	<b>Daniela Schuster</b> Paracelsus Medical University Salzburg, Austria	Optimized in silico bioactivity profiling for efficient target identification of natural compounds ( <b>abstract P1-02</b> )			
11:45 – 12:15	<b>Hermann Stuppner</b> Universität Innsbruck, Austria	Exploration of Traditional Medicinal Plants with Anti-Inflammatory Activities ( <b>abstract P1-03</b> )			
<b>12:15 – 13:15</b>			<b>Lunch break</b>		
<b>13:15 – 14:45</b>			<b>Plenary lecture 2 (P2): Chemical analytics and quality control</b>		
Chair: Guillermo Schmeda-Hirschmann, University of Talca, Chile					
13:15 – 13:45	<b>Evelyn Wolfram</b> Zurich University of Applied Sciences, Wädenswil, Switzerland	Best Practice in Quality Assurance of Standardized Phytoproducts – from Farm to Pharmacy ( <b>abstract P2-01</b> )			
13:45 – 14:15	<b>Maria Halabalaki</b> University of Athens, Greece	Integration of metabolomic approaches in contemporary analysis of bioactive natural products ( <b>abstract P2-02</b> )			
14:15 – 14:30	<b>Tiejie Wang</b> Shenzhen Institute for drug control, Shenzhen, China	Holistic quality assessment of traditional Chinese medicine based on chemical pattern recognition ( <b>abstract P2-03</b> )			
14:30 – 14:45	<b>Kobus Eloff</b> University of Pretoria, South Africa	The extractant is the main limiting factor in using plants by rural people for human and animal health ( <b>abstract P2-03</b> )			
<b>14:45 – 16:00</b>			<b>Guided poster presentation (PP) and coffee break</b> Abstracts can be found at the end of the abstract book		

16:00 – 17:45 Symposium 1 (S1): Natural Compounds and Cancer		
Chair: Oliver Zierau, Technische Universität Dresden, Germany Daniela Schuster, Paracelsus Medical University, Salzburg, Austria		
16:00 – 16:30	<b>Ann Louw</b> Stellenbosch University, South Africa	Combinatorial treatments of Tamoxifen with SM6Met, a selective estrogen receptor subtype modulator (SERSM), from <i>Cyclopia subternata</i> ( <b>abstract S1-01</b> )
16:30 – 17:00	<b>Anastasia Karioti</b> Aristotle University of Thessaloniki, Greece	Natural products as useful tools for inhibition of carbonic anhydrases ( <b>abstract S1-02</b> )
17:00 – 17:15	<b>Marselina Tan</b> Institut Teknologi, Bandung, Indonesia	CP2, a bioactive compound from Cryptocarya and its effect to breast cancer cell lines ( <b>abstract S1-03</b> )
17:15 – 17:30	<b>Wim Vanden Berghe</b> University of Antwerp, Belgium	Epigenetic sensitisation of drug resistant cancers by the electrophilic steroid Withaferin A ( <b>abstract S1-04</b> )
17:30 – 17:45	<b>René Delgado-Hernandez</b> University of Havana, Cuba	Mangiferin; a natural glucosylxanthone with multiple pharmacological actions also effective in cancer chemoprevention ( <b>abstract S1-05</b> )



← Fruits of *Xylopia aethiopica*

Thonningia sanguinea →



<b>16:00 – 17:45</b>	<b>S2</b>	<b>Symposium 2: Antimicrobial and antiparasitical activities</b>
Chair: Kobus Eloff, University of Pretoria, South Africa		
16:00 – 16:25	<b>Cica Vissiennon</b> University of Leipzig, Germany	Antimicrobial activity and chemical composition of the termite strain <i>Macrotermes bellicosus</i> traditionally used for the treatment of infectious diseases in Benin ( <b>abstract S2-01</b> )
16:25 – 16:50	<b>Diana Wolf</b> Technische Universität Dresden, Germany	Discovering the antimicrobial activity of natural products by using an efficient high-throughput screening platform ( <b>abstract S2-02</b> )
16:50 – 17:15	<b>Balé Bayala</b> University of Ouagadougou, Burkina Faso	Anthelmintic activity of <i>Acacia nilotica</i> var <i>adansonii</i> (Guill. et Perr.) O. Ktze and <i>Acacia raddiana</i> (Savi) extracts evaluated in vitro tests ( <b>abstract S2-03</b> )
17:15 – 17:30	<b>Nina Vahekeni</b> University of Basel, Switzerland	Herbal medicines used in the management of sleeping sickness in Angola and their antitrypanosomal activity ( <b>abstract S2-04</b> )
17:30 – 17:45	<b>Antigoni Cheilari</b> University of Athens, Greece	NMR-based metabolic profiling of <i>Pistacia lentiscus</i> L. leaves extracts from the Greek island of Chios for the identification of biomarkers with antimicrobial properties ( <b>abstract S2-05</b> )
<b>18:00 – 18:45</b>	<b>Anniversaries (A) - 50 years of Ethnopharmacology &amp; 40 years of Journal of Ethnopharmacology</b>	
Chair: Guillermo Schmeda-Hirschmann, University of Talca, Chile Günter Vollmer, Technische Universität Dresden, Germany		
18:00 – 18:45	<b>Michael Heinrich</b> University College London, UK	Ethnopharmacology – quo vadis: Fifty years of research on ethnopharmacology, but what is next? ( <b>abstract A-01</b> )
<b>19:00 – 22:00</b>	<b>Get together and poster party</b>	



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## DAY 2 - Thursday, June 13th

**08:30 – 09:45**    **Symposium 3 (S3) : Natural compounds and hormonal activities - women's health**

Chair :

Javier Echeverria, Universidad de Santiago de Chile

Marselina Tan, Institut Teknologi, Bandung, Indonesia

08:30 – 09:00	<b>Birgit Dietz</b> College of Pharmacy, University of Illinois at Chicago, USA	Usage of botanicals throughout a women's life – the multifaceted actions of hops ( <b>abstract S3-01</b> )
09:00 – 09:30	<b>Oliver Zierau</b> Technische Universität Dresden, Germany	Endocrinology of menopause and the role of natural compounds ( <b>abstract S3-02</b> )
09:30 – 09:45	<b>Argyro Vontzalidou</b> University of Athens, Greece	Traditional medicine inspired approaches to the discovery of osteoprotective agents ( <b>abstract S3-03</b> )

**09:45 – 10:15**    **Coffee break**

**10:15 – 11:05**    **Symposium 4 (S4): Natural compounds and hormonal activities: peptidergic systems**

Chair:

Motlalepula Matsabisa, University of the Free State, South Africa

Sitesh Bachar, University of Dhaka, Bangladesh

10:15 – 10:40	<b>Marco Leonti</b> University of Cagliari, Italy	Ethnopharmacology of Love ( <b>abstract S4-01</b> )
10:40 – 11:05	<b>Christian Gruber</b> Medical University of Vienna, Austria	Nature-derived peptides – a growing niche for GPCR ligand discovery ( <b>abstract S4-02</b> )

<b>11:05 – 12:05</b>		<b>Plenary lecture 3 (P2): Commercial success from traditional knowledge</b>
Chair: Anastasia Karioti, Aristotle University of Thessaloniki, Greece Wim Vanden Berghe, University of Antwerp		
11:05 – 11:35	<b>Andreana Assimopoulou</b> University of Thessaloniki	From ancient codes to modern medicine: the case of alkannins/shikonins <b>(abstract P3-01)</b>
11:35 - 12:05	<b>Karl Tsim</b> University of Science and Technology, Hong Kong	HerboChips: a screening platform for drug development from traditional Chinese medicine on a chip <b>(abstract P3-02)</b>
<b>12:05 – 13:15</b>		<b>Lunch break</b>
<b>13:15 – 14:30</b>		<b>Symposium 5 (S5): Best practice in Ethnopharmacology</b>
Chair: Michael Heinrich, University College London, UK Maria Halabalaki, University of Athens, Greece		
13:15 – 13:40	<b>Rudolf Bauer</b> University of Graz, Austria	Why do we need a holistic approach with chemometric analysis, instead of a single analytical marker concept for QC of herbal medicinal products? <b>(abstract S5-01)</b>
13:40 – 14:05	<b>Caroline Weckerle</b> University of Zürich, Switzerland	Development and establishment of methodological standards for ethnopharmacological and ethnobotanical research in the field. <b>(abstract S5-02)</b>
14:05 – 14:30	<b>Krystyna Skalicka-Woźniak</b> University of Lublin, Poland	Importance of efficient isolation techniques in discovery of natural products <b>(abstract S5-03)</b>

<b>14:30 – 15:30</b>	<b>Short communications 1 (SC1): Ethnopharmacology/Ethnobotany</b>	
Chair: Karl Tsim, The Hong Kong University of Science and Technology, Hong Kong Lisa Pihan, Technische Universität Dresden, Germany/ ZHAW, Wädenswil, Switzerland		
14:30 – 14:45	<b>Chunlin Long</b> Minzu University of China, Beijing, China	Examination of ethnopharmacologically important Acorus species <b>(abstract SC1-01)</b>
14:45 – 15:00	<b>Evangelos Axiotis</b> University of Athens, Greece	Ethnopharmacology at the Cultural Crossroads between Greece and Asia Minor. Chemical Composition and Biological Activity of Sideritis sipylea BOISS, an Endemic Species from North Aegean Greek Islands <b>(abstract SC1-02)</b>
15:00 – 15:15	<b>Marilena Gilca</b> Carol Davila University of Medicine and Pharmacy, Bucharest, Romania	Herbal taste and pharmacological activities- an old theory with new significances? <b>(abstract SC1-03)</b>
15:15 – 15:30	<b>Kapil Soni</b> Barkatullah University Bhopal, India	Ethnopharmacological studies for the development of LTC-4 and IL-6 inhibitors of plant origin <b>(abstract SC1-04)</b>
<b>14:30 – 15:30</b>	<b>Short communication 2 (SC2): Regulation/Globalization</b>	
Chair: Evelyn Wolfram, Zurich University of Applied Sciences, Wädenswil, Switzerland Christine Heinze, Technische Universität Dresden, Germany		
14:30 – 14:45	<b>Ruyu Yao</b> Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, China	The globalization of goji (fruits of Lycium barbarum L. and L. chinense Mill.): What are the drivers? <b>(abstract SC2-01)</b>
14:45 – 15:00	<b>Francesca Scotti</b> University College London, UK	Herbal products' quality, market regulations and new perspectives - The case of maca (Lepidium meyenii Walp.) <b>(abstract SC2-02)</b>
15:00 – 15:15	<b>Neeraj Tandon</b> Indian Council of Medical Research, New Delhi, India	Phytopharmaceuticals A New Drug Class Regulated in India <b>(abstract SC2-03)</b>
15:15 – 15:30	<b>Miao Jianhua</b> Guangxi Botanical Garden of Medicinal Plants China	To be announced <b>(abstract SC2-04)</b>

<b>15:30 – 16:00</b>	<b>Coffee break</b>	
<b>16:00 – 16:45</b>	<b>Short communications 3 (SC3): Pharmacology/Ethnopharmacology</b>	
Chair Krystyna Skalicka-Woźniak, Medical University of Lublin, Poland Nektarios Aligiannis, National and Kapodistrian University of Athens, Greece		
16:00 – 16:15	<b>Paul Layer</b> Technische Universität Darmstadt, Germany	From Indian mythology to environmental cholinergic health effects ( <b>abstract SC3-01</b> )
16:15 – 16:30	<b>Godwin Anywar</b> Makerere University, Kampala, Uganda	Indigenous traditional knowledge and practices used by herbalists in the treatment opportunistic infections in HIV/AIDS in Uganda ( <b>abstract SC3-02</b> )
16:30 – 16:45	<b>Suchada Sukrong</b> Chulalongkorn University, Thailand	Topoisomerase as target for anticancer drug discovery and beyond ( <b>abstract SC3-03</b> )
<b>16:00 – 17:00</b>	<b>Short communications 4 (SC4): Biological Pharmacological Action</b>	
Chair: Maarten Bosland, University of Illinois at Chicago, USA Sefirin Djiougue, University of Yaounde 1, Cameroon		
16:00 - 16:15	<b>Fabien Schultz</b> Technical University of Berlin, Germany	African medicinal plants traditionally used in western and central Uganda: Investigation of antiinflammatory activity in the COX / PGH2 and 15-LOX / 15(S)- HpETE pathways ( <b>abstract SC4-01</b> )
16:15 – 16:30	<b>Eva Mittermair</b> University of Vienna, Austria	Prenylated xanthenes from <i>Metaxya rostrata</i> suppressing FoxM1 and topoisomerase I ( <b>abstract SC4-02</b> )
16:30 – 16:45	<b>Olayinka Oridupa</b> University of Ibadan, Ibadan, Nigeria	Antihypertensive effect and amelioration of oxidative damage by <i>Lagenaria breviflora</i> Roberty and <i>Xanthosoma sagittifolium</i> Exell in experimentally- induced hypertension of Wistar rats ( <b>abstract SC4-03</b> )
16:45 – 17:00	<b>Robin Taleb</b> Lebanese American University, Natural Sciences, Byblos, Lebanon	The chemotherapeutic effect of $\beta$ -2- himachalen-6-ol against human skin squamous cell carcinoma and BALB/c mice ( <b>abstract SC4-04</b> )



<b>17:15 – 18:15</b>		<b>Plenary lecture 4 (P4): antimicrobial drug discovery and microbiome</b>
Chair: Günter Vollmer, Technische Universität Dresden, Germany		
17:15 - 17:45	<b>Paul Cos</b> University of Antwerp, Belgium	Why do we need best practices for antimicrobial drug discovery? <b>(abstract P4-01)</b>
17:45 – 18:15	<b>Bernhard Watzl</b> Max-Rubner-Institut, Karlsruhe, Germany	Diet and intestinal microbiota – the interaction with phytochemicals <b>(abstract P4-02)</b>
<b>18:15 – 19:45</b>		<b>Members assembly</b>
<b>20:00 – 22:30</b>		<b>Congress dinner</b>

In the afternoon, we will have time to connect with one another in a historical atmosphere in the Restaurant „Pulverturm“.

Address:

An der Frauenkirche 12  
01067 Dresden



<https://pulverturm-dresden.de/>

You can reach the

restaurant using tram lines 1, 4, 3, 8, 7, 9 and 12 or the bus lines 62 and 75 from the stop/station "Pirnaischer Platz" or "Synagoge" and an additional walk of around 8 to 10 min.

For more information, please also use the connection information on the homepage of the DVB (public transport association of Dresden). <https://www.dvb.de/en-gb/>

Please note that you may use your Congress Badge as travel ticket for the public transportation in Dresden.



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## **DAY 3 - Friday, June 14th**

*Bridging continents and cultures, in cooperation with the Alumni-Network of the  
TUD School of Science*

### **08:30 – 10:00 Symposium 6 (S6): Bridging continents**

Chair:

Thea Lautenschläger, Technische Universität Dresden, Germany  
Caroline Weckerle, University of Zurich, Switzerland

08:30 – 08:55	<b>Asia:</b> Pulok Mukherjee Jadavpur University, Kolkata, India	Ethnopharmacology & Ayurveda : evidence based validation <b>(abstract S6-01)</b>
08:55 – 09:20	<b>Europe:</b> <b>Nektarios Aligiannis</b> University of Athens, Greece	The importance of reviving Hellenic Traditional Medicine <b>(abstract S6-02)</b>
09:20 – 09:45	<b>South America:</b> <b>Javier Echeverria</b> Universidad de Santiago de Chile, Chile	Chichas, fermented beverages in prehispanic Chile: Food, medicinal, social and ritual aspects <b>(abstract S6-03)</b>

### **09:45 – 10:15 Plenary lecture 5 (P5): Going global – Diabetes**

Chair:

Günter Vollmer, Technische Universität Dresden, Germany

09:45 – 10:15	<b>Peter Schwarz</b> Technische Universität Dresden	Walk away from Diabetes <b>(abstract P5-01)</b>
<b>10:15 – 10:45</b>	<b>Coffee break</b>	

<b>10:45 – 12:00</b>	<b>Africa symposium 1 (AS1): Ethnopharmacology/Ethnobotany in Africa</b>	
Chair: Cica Vissiennon, University Leipzig, Germany Michael Heinrich, University College London, UK		
10:45 - 11:15	<b>Thea Lautenschläger</b> Technische Universität Dresden, Germany	Ethnobotanical studies in Northern Angola ( <b>abstract AS1-01</b> )
11:15 – 11:45	<b>Maarten Bosland</b> University of Illinois at Chicago, USA	Collaboration on Medicinal Plant-Based Research in West Africa: Challenges and Opportunities ( <b>abstract AS1-02</b> )
11:45 – 12:00	<b>Sefirin Djiougue</b> University of Yaounde 1, Cameroon	Pro-fertility effects of a traditional medicine "EKOM" on immature female Wistar rats ( <b>abstract AS1-03</b> )
<b>12:00 – 13:00</b>	<b>Lunch break</b>	
<b>13:00 – 14:15</b>	<b>Africa symposium 2 (AS2): Commercial globalization of traditional medicinal knowledge</b>	
Chair: Ann Louw, Stellenbosch University, South Africa Godwin Anywar, Makerere University, Kampala, Uganda		
13:00 – 13:30	<b>Michael Heinrich</b> University College London, UK	Ethnopharmacology and the Blockchain (r)evolution - Where do we go? ( <b>abstract AS2-01</b> )
13:30 – 14:00	<b>Namrita Lall</b> University of Pretoria, South Africa	Reinforce urban skin by connecting with the origins ( <b>abstract AS2-02</b> )
14:00 – 14:15	<b>Christin Heinze</b> Technische Universität Dresden, Germany	Economic Potential of Selected Native Plants from Cuanza Norte, Northern Angola ( <b>abstract AS2-03</b> )

<b>14:30 – 15:00</b>		<b>Plenary lecture 6</b>
Chair: Günter Vollmer, Technische Universität Dresden, Germany		
14:30 – 15:00	<b>Guillermo Schmeda-Hirschmann</b> University of Talca, Chile  (President of the International Society of Ethnopharmacology)	Latin American tradition, ethnopharmacology and bioactive products ( <b>abstract P6-01</b> )
<b>15:00 – 15:30</b>		<b>Poster awards and closing ceremony</b>
<b>From 16:30</b>		<b>Farewell at Botanical Garden TU-Dresden</b> <b>Guided tours possible</b>

The Botanical Garden of the TU Dresden can be reached using the tram lines 1, 2, 4, 10, 12 or 13 “Strassburger Platz”. From there you have an additional walk from around 10 min.

Please note that there is no direct connection from the Congress site to the station “Strassburger Platz”, you have to change trams/busses. If you want to reach the Botanischer Garten from the congress site, please take the Bus 66 from Technische Universität (Fr.-Foerster-Platz) to Gret-Pallucca-Strasse and switch there to tram line 10

For more information, please also use the connection information of the homepage of the DVB (public transport association of Dresden). <https://www.dvb.de/en-gb/>

The abstracts to every lecture can be found in the abstract book. The shortcut of the abstract can be found behind the title of the lecture in brackets.

To protect the environment we decided to only provide you with a digital abstract book. You can find the abstract book on the USB-stick, sponsored by Bionorica, in your conference bag.

You can also download the abstract book using following link, where you can also find the presentations, if provided by the speaker: <https://cloudstore.zih.tu-dresden.de/index.php/s/nEMSPkPTAYmYYj5>



## **Organizing Committee**

### **Chair**

**Günter Vollmer**, Chair of Molecular Cell Physiology and Endocrinology, Faculty of Biology, Technische Universität Dresden

### **Vice-Chair**

**Thea Lautenschläger**, Chair of Botany, Faculty of Biology, Technische Universität Dresden

**Oliver Zierau**, Chair of Molecular Cell Physiology and Endocrinology, Faculty of Biology, School of Science, Technische Universität Dresden

### **Assistant to the Chair**

**Katrin Richter**, Chair of Molecular Cell Physiology and Endocrinology, Faculty of Biology, School of Science, Technische Universität Dresden

### **International Advisor**

**Cica Vissiennon**, Universität Leipzig, Faculty of Medicine, Institute for Medicinal Physics and Biophysics, Leipzig, Germany

## **Members of the local organizing committee**

- **Lisa-Anna-Maria Pihan** (Chair of Molecular Cell Physiology and Endocrinology, Faculty of Biology, School of Science, Technische Universität Dresden)
- **Christin Heinze** (Chair of Botany, Faculty of Biology, School of Science, Technische Universität Dresden)
- **Carolin Beer** (Chair of Molecular Cell Physiology and Endocrinology, Faculty of Biology, School of Science, Technische Universität Dresden)
- **Johanna-Theres Borutta** (Chair of Molecular Cell Physiology and Endocrinology, Faculty of Biology, School of Science, Technische Universität Dresden)
- **Maria Puente** (Chair of Molecular Cell Physiology and Endocrinology, Faculty of Biology, School of Science, Technische Universität Dresden)
- **Maria Richter-Babekoff** (International Office, School of Science, Technische Universität Dresden)
- **Janette Wober** (Chair of Molecular Cell Physiology and Endocrinology, Faculty of Biology, School of Science, Technische Universität Dresden)
- **Diana Wolf** (Chair of General Microbiology, Faculty of Biology, School of Science, Technische Universität Dresden)

## **International Organizing Committee**

### **Rudolf Bauer**

Institute of Pharmaceutical Sciences,  
Department of Pharmacognosy, Karl-  
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### **Michael Heinrich**

Research Group 'Pharmacognosy and  
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### **Sefirin Djiogue**

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### **Jacobus (Kobus) Eloff**

Research Professor, Founder Phytomedicine Programme, Faculty of Veterinary  
Science, University of Pretoria, South Africa. Recipient of "Outstanding  
International Ethnopharmacologist Award - 2019" by the Indian Branch of ISE.

### **Maria Halabalaki**

National and Kapodistrian University,  
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### **Fabien Schultz**

Technical University of Berlin /  
Neubrandenburg University of Applied  
Sciences, Germany

### **Andreana Assimopoulou**

Department of Chemical Engineering,  
Organic Chemistry Laboratory, University  
of Thessaloniki, Greece

We thank all contributors for their active support.

Without their commitment, the 19th Congress of the international Society for  
Entnopharmacology could not have taken place on this scale.