

Detailed Programme



20th International Congress of the International Society for Ethnopharmacology

VIRTUAL CONGRESS

18-20 APRIL 2021

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(MACEDONIA-THRACE)





Sunday 18 April

10:00
11:00 **Opening of the Congress and Welcome Ceremony**

11:00
11:45 **Plenary lecture**

From Hippocrates to the modern Phytotherapy.

Prof. E. Skaltsa

National & Kapodistrian University of Athens, School of Pharmacy, Department of Pharmacognosy & Chemistry of Natural Products, Greece

11:45
12:15 **Break**

12:15
13:50 **Plenary lectures: Pharmacological and clinical studies of medicinal plants & natural products**

Moderator: Prof. Rudolf Bauer

Designing clinical trials of herbal medicines as alternatives to antimicrobials.

M. Willcox, C. Simpson, M. Logue, XY. Hu, A. Flower, B. Stuart, P. Little, M. Moore

University of Southampton, United Kingdom

Study of the mechanism of antitubercular and antiplasmodial activities of plants and natural products using mass spectrometry-based assays.

Prof. A.I. Calderón

Department of Drug Discovery and Development, Harrison School of Pharmacy, Auburn University, AL, USA

Traditional Chinese Medicine for Cancer Patients in Taiwan.

H.-R. Yen

*School of Chinese Medicine, College of Chinese Medicine, China Medical University, Taichung, Taiwan
Chinese Medicine Research Center, China Medical University, Taichung, Taiwan
Department of Chinese Medicine, China Medical University Hospital, Taichung, Taiwan*

Ethnopharmacological investigations of Vietnamese medicinal plants used for the treatment of inflammation and cancer.

H. Thi Tran, T. Thanh Nguyen, N. Kretschmer, E.-M. Pferschy-Wenzig, R. Bauer

Institute of Pharmaceutical Sciences, Department of Pharmacognosy, University of Graz, Austria

13:50
14:30 **Lunch**



<p>14:30 Poster session 15:30 African workshop</p> <p>Aromatic and medicinal plants of the Mediterranean basin as food and dietary supplements</p> <p>Ethnobotanical approach to drug discovery: Theory, methodology and limitations</p> <p>Greek ethnopharmacology</p> <p>Traditional use of plants and herbal pharmacopoeias: the contribution of the Mediterranean flora</p> <p>Miscellaneous.</p>		
<p>15:30 Parallel Sessions 19:00</p>		
<p>15:30 ISE-GA African workshop 19:00 Moderator: Dr. Cica Vissienon, African Research Network (on medicinal plants and natural product research) – Mission, Opportunities, Registration</p>	<p>15:30 Greek Ethnopharmacology 18:30 Moderator: Prof. Helen Skaltsa</p>	
<p>Reverse pharmacology and traditional medicine Dr. B. Graz <i>University of Geneva, Switzerland</i></p>	<p>Expanding the scope of Greek Ethnopharmacology - eurasian medicinal plants on the Mediterranean. A. Touwaide¹, E. Appetit² ¹<i>Division of Humanities, UCLA, Los Angeles, USA</i> ²<i>Institute for the Preservation of Medical Traditions, Washington, DC, USA</i></p>	
<p>Multidirectional pharmacotoxicological investigations on <i>Harpagophytum procumbens</i> DC. ex Meisn.: focus on water extract activity. G. Orlando <i>Department of Pharmacy, University "G. d'Annunzio" of Chieti-Pescara, Italy</i></p>	<p>Herbal remedies in an Alexandrian manuscript of late antiquity. M. Marselos <i>Department of Pharmacology, Medical Faculty, School of Health Sciences, University of Ioannina, Greece</i></p>	
<p>The antifibrotic potential and pharmacokinetic assessment of <i>Euclea natalensis</i> A.DC. as a hepatoprotective agent. A.M. Reid, N. Lall <i>Plant and Soil Sciences, University of Pretoria, South Africa</i></p>	<p>Galen's formulas in his book on antidotes. C Grivas¹, E Appetiti², A Touwaide³ ¹<i>Akadimia of Ancient Greek and Traditional Chinese Medicine, Athens, Greece</i> ²<i>Institute for the Preservation of Medical Traditions, Washington, DC, USA</i> ³<i>Division of Humanities, UCLA, Los Angeles, USA</i></p>	



The holistic anti-ageing potential of *Persicaria senegalensis* (Meisn.) Soják ethanolic and fermented extracts.

B. D. Payne¹, N. Lall^{1,2}

¹Medicinal Plant Science, Department of Plant and Soil Sciences, University of Pretoria, South Africa

²School of Natural Resources, University of Missouri, Columbia, USA

16:45
17:15

Break

Innovative strategies for the efficient isolation of natural products and discovery of potential new leads.

E.F. Queiroz, J.L. Wolfender

Institut des Sciences Pharmaceutiques de Suisse Occidentale (ISPSO), Section des Sciences Pharmaceutiques, Université de Genève, Switzerland

Anthelmintic screening of five *Palmatilobae* species used in Traditional Medicine in Katanga Province (DR Congo).

M.G. Nzuzi^{1,2,3}, N.W. Muyumba^{2,4}, M.L. Gauthier², S.K. Panda⁵, W. Luyten⁵, A. Nachtergaele², S. Vandenput³, S.A. Bakari⁶, E.V. Okombe¹, P. Duez²

¹Faculty of Veterinary Medicine, Unit of Pharmacology and Therapeutic, University of Lubumbashi (UNILU), DR Congo

²Unit of Therapeutic Chemistry and Pharmacognosy, University of Mons (UMONS), Belgium

³Bibliothèque des Sciences de la vie, University of Liège (ULiège), Belgium

⁴Department of Chemistry-physics, High college training teachers of Lubumbashi, DR Congo

⁵Animal Physiology and Neurobiology Section, Department of Biology, KU Leuven, Belgium

⁶Laboratory of Pharmacognosy, Faculty of Pharmacy, University of Lubumbashi (UNILU), DR Congo

16:45
17:15

Break

Exploration of Traditional Herbal Knowledge in the South Balkan and East Mediterranean region for the discovery of bioactive natural products.

N. Aligiannis

Department of Pharmacognosy and Natural Products Chemistry, Faculty of Pharmacy, National and Kapodistrian University of Athens, Greece

***Origanum dictamnus*: phytochemical analyzes and relaxing effect on rabbit intestine.**

C. Paloukopoulou¹, S. Govari¹, A. Soulioti¹, G. Tasi¹, T. Psarra², M. Koutsoviti-Papadopoulou², A. Karioti¹

¹School of Pharmacy, Aristotle University of Thessaloniki, Greece

²School of Veterinary Medicine, Aristotle University of Thessaloniki, Greece



Bio-guided fractionation and in vitro anti-inflammatory potential of *Entada Africana* from Benin used in the management of pain related-conditions.

M. Codo-Toafode^{1,4}, V. Spiegler², C. Vissiennon^{3,6}, V. Ahji¹, A. Hensel², K. Fester^{4,5}

¹University of IRGIB Africa, Inter-Regional University of Industrial Engineering, Biotechnologies and Applied Sciences, Cotonou, Benin

²University of Münster, Institute for Pharmaceutical Biology and Phytochemistry (IPBP), Germany

³University of Leipzig, Institute for Medical Physics and Biophysics, Germany

⁴University of Leipzig, Institute of Pharmacy, Germany

⁵University of Applied Sciences Zittau/Görlitz, Faculty of Natural and Environmental Sciences, Germany

⁶REPHA GmbH Biologische Arzneimittel, Langenhagen, Germany

In the course of thyme: the use of *Thymus* spp. in European traditional medicine & the example of *Thymus thracicus*.

T.K. Papagrigoriou¹, O.St. Tsiftoglou¹, D.I. Hajipavlou-Litina², D.M. Lazari¹

¹Aristotle University of Thessaloniki, Faculty of Health Sciences, School of Pharmacy, Laboratory of Pharmacognosy, Greece

²Aristotle University of Thessaloniki, Faculty of Health Sciences, School of Pharmacy, Department of Pharmaceutical Chemistry, Greece

A natural choice for antimicrobial protection using an indigenous South African plant for acne vulgaris.

I.A. Lambrechts, N. Lall

Plant and Soil Sciences, University of Pretoria, South Africa

Discovering herbal teas/mountain teas in Kozani-Western Macedonia-Greece, an ethnopharmacological journey.

E. Lampretsa

Earth's Pharmacy, Kozani, Greece

The Regulatory aspects and challenges for commercialisation of the natural Products.

Prof. N. Lall

Plant and Soil Sciences, University of Pretoria, South Africa

Ethnopharmacological study of the medicinal plants used in the folk medicine in Drama, Northern Greece.

S. Tsiotsiou-Papaemmanouil¹, D. Lazari¹, D. Hadjipavlou-Litina², T. Dardavesis³

¹Laboratory of Pharmacognosy, School of Pharmacy, Faculty of Health Sciences, Aristotle University of Thessaloniki, Greece

²Laboratory of Pharmaceutical Chemistry, School of Pharmacy, Faculty of Health Sciences, Aristotle University of Thessaloniki, Greece

³Laboratory of Hygiene, Medical School, Faculty of Health Sciences, Aristotle University of Thessaloniki, Greece



Monday 19 April 2021

10:00 **Plenary lectures - Short lectures: Applications of Hyphenated Techniques in quality assurance of ethnopharmacological sources.**
12:00

Moderator: Assist. Prof. Maria Halabalaki

Modern analytical approaches for Natural Products Analysis.

Prof. H. Stuppner

University of Innsbruck, Austria

The application of classic and modern pharmacognosy in the study of African traditional medicines.

A.M. Viljoen, S. Combrinck, I. Vermaak, M. Sandasi

Department of Pharmaceutical Sciences and SAMRC Herbal Drugs Research Unit, Faculty of Science, Tshwane University of Technology, Pretoria, South Africa

TCM needs TQM: New applications using NMR for standardizing botanical mixtures.

Prof. R. Cooper

The Hong Kong Polytechnic University, Hong Kong SAR China

Qualitative and quantitative characterization of chemical profiles in three different parts of *Poria cocos*.

L. Zhu, J. Xu, X. Dong, Z. Zhao

School of Chinese Medicine, Hong Kong Baptist University, Kowloon, Hong Kong Special Administrative Region, China

PEGASUS: An analytical chemometrics platform for the discovery of bioactive natural compounds.

A. Cheilari¹, A. Vontzalidou¹, VI. Boka¹, D. Benaki², N. Aligiannis¹

¹*Department of Pharmacognosy and Natural Products Chemistry, Faculty of Pharmacy, National and Kapodistrian University of Athens, Greece*

²*Department of Pharmaceutical Chemistry, Faculty of Pharmacy, National and Kapodistrian University of Athens, Greece*

12:00 **Break**
12:30

12:30 **Plenary lectures - Short lectures: Pharmacological and clinical studies of medicinal plants & natural products**
14:00

Moderator: Prof. Günter Vollmer

Functional consequences of stimulation of multiple biological targets by botanical extracts and their bioactive compounds – hops as an example.

Prof. G. Vollmer

Faculty of Biology, Technische Universität Dresden, Germany



Risk assessment of chemicals that occur as mixtures: additivity and interactions.

Prof. C. Hogstrand

King's College London, School of Life Course Sciences, London, UK

Artocarpus tonkinensis, a remedy from Vietnamese ethnopharmacology, protects mice against collagen-induced arthritis and decreases Th17 cell function.

S. Adorisio¹, I. Muscari², T.T. Thuy³, D.V. Delfino^{1,2}

¹Foligno Nursing School, Italy

²Secion of Pharmacology, Department of Medicine, University of Perugia, Italy

³Institute of Chemistry, Vietnam Academy of Science and Technology, Hanoi, Vietnam

Investigation on role of Indigenous medicinal herb of North East India for the management of dysregulated glutathione biosynthesis associated with metabolic syndrome.

B. Deka^{1,2}, P. Manna¹, J.C Borah¹, N.C Talukdar^{1,2}

¹Biochemistry and Drug Discovery Lab, Institute of Advanced Study in Science and Technology (IASST) PaschimBoragaon, Guwahati-35, India

²Cotton University, Panbazar, Guwahati-01, India

14:00 15:00	Lunch	
15:00 16:00	Poster session Application of hyphenated techniques in quality assurance of ethnopharmacological sources. Aromatic and medicinal plants in animal health: ethnopharmacological approach. Conservation and sustainable use of herbal resources. Formulation of Natural products and medicinal plants: from traditional to modern phytotherapeutics.	
16:00 18:45	Parallel Sessions	
16:00 18:00	Aromatic and medicinal plants in animal health: ethnopharmacological approach Moderator: Prof. Ilias Giannenas	Conservation and sustainable use of herbal resources Moderator: Assoc. Prof. Diamanto Lazari
	Challenges and success in using plants to control internal parasites in animals Prof. Dr. J. N. Eloff <i>University of Pretoria, South Africa</i>	Safeguarding threatened species and promoting the use of plant resources in research and development. Dr. E. Maloupa <i>Hellenic Agricultural Organization-DEMETER, Institute of Plant Breeding and Genetic Resources, Laboratory of Protection and Evaluation of Native and Floricultural Species, Thessaloniki, Greece.</i>



<p>How can we manage dairy animal health and welfare?</p> <p>Prof. M. Caroprese <i>University of Foggia, Italy</i></p>	<p>Understanding local knowledge as integral factor in designing strategies for sustainably conserving and using herbal resources.</p> <p>Y.M. Scherrer¹, M. Heinrich² <i>¹Sustainability Research Group, University of Basel, Switzerland</i> <i>²Research Group 'Pharmacognosy and Phytotherapy', UCL School of Pharmacy, London, UK</i></p>
<p>The use of aromatic plants, extracts and essential oils as feed additives in animal nutrition.</p> <p>I. Giannenas <i>Assistant Professor, DVM, PhD, Director of Laboratory of Nutrition</i> <i>EBVS® European Specialist in Poultry Veterinary Science</i> <i>Laboratory of Nutrition, Faculty of Veterinary Medicine, School of Health Sciences, Aristotle University of Thessaloniki, Greece</i></p>	<p>16:45 17:45</p> <p>Formulation of natural products and medicinal plants: from traditional to modern phytotherapeutics</p>
<p>Current status of ethnoveterinary surveys conducted in South Africa.</p> <p>L.J. McGaw¹, I.M. Famuyide¹, E.T. Khunoana¹, A.O. Aremu² <i>¹Phytomedicine Programme, Department of Paraclinical Sciences, University of Pretoria, South Africa</i> <i>²Indigenous Knowledge Systems (IKS) Centre, Faculty of Natural and Agricultural Sciences, North West University, Mmabatho, South Africa</i></p>	<p>Evaluation of sesquiterpenes as permeation enhancers for transdermal delivery</p> <p>Prof. D. Fatouros <i>School of Pharmacy, Aristotle University of Thessaloniki, Greece</i></p>
<p>Of Elephants and Men: From animal observation to veterinary and human pharmacopeia in Laos.</p> <p>JM. Dubost <i>Museum National d'Histoire Naturelle-UMR 7206, Paris, France</i> <i>UMR 152 Pharmadev, Université de Toulouse, IRD, UPS, France</i></p>	<p>L431. Natural products loaded in nanocarriers to cross biological barriers.</p> <p>Prof. AR. Bilia <i>Department of Chemistry "Ugo Schiff", Florence, Italy</i></p>



Effect of dietary aromatic plants and essential oils in combination with tributyrin on broiler chicken meat composition and oxidative stability.

E. Bonos¹, E. Sidiropoulou², I. Giannenas², A. Karamoutsios¹, O. Tsiftoglou³, D. Lazari³, E. Christaki², I. Skoufos¹, A. Tzora¹

¹Department of Agriculture, School of Agriculture, University of Ioannina, Kostakioi, Arta, Greece.

²Laboratory of Nutrition, School of Veterinary Medicine, Faculty of Health Sciences, Aristotle University of Thessaloniki, Greece.

³Laboratory of Pharmacognosy, School of Pharmacy, Faculty of Health Sciences, Aristotle University of Thessaloniki, Greece.

17:45 Break
18:00

18:00 Ethnobotanical approach to drug discovery
18:45

Moderator: Prof. Michael Heinrich

Archaeoethnopharmacological studies in South America: back to the roots of ethnopharmacology?

Dr. J. Echeverría

*Departamento de Ciencias el Ambiente
Facultad de Química y Biología, Universidad de Santiago de Chile*

Plants used as ethnomedicine for rheumatic disorders by Williche people.

R. Saavedra-Rodríguez

*Departamento de Ciencias Básicas,
Universidad Santo Tomás, Osorno, Chile*



Tuesday 20 April 2021

10:00 11:30		Parallel Sessions	
10:00 11:30	<p>Ethnobotanical approach to drug discovery</p> <p>Moderator: Prof. Marco Leonti</p>	10:00 10:30	<p>Traditional use of plants and herbal pharmacopoeias</p> <p>Moderator: Prof. Pulok K. Mukherjee</p>
	<p>Recommended standards for conducting and reporting ethnopharmacological field studies.</p> <p>M. Leonti <i>Department of Biomedical Sciences, University of Cagliari, Italy</i></p>		<p>Traditional Herbal Resources and Herbal Pharmacopoeia: the contribution of the Taiwanese flora</p> <p>Dr. Chia-Hsin Lin <i>China Medical University, Taiwan</i></p>
	<p>Traditional Chinese Medicine: A Global Exchange.</p> <p>E.R. Qi, E. Brand, M. Zhou, Z. Zhao <i>School of Chinese Medicine, Hong Kong Baptist University, Kowloon Tong, Hong Kong SA</i></p>	10:30 11:30	<p>Pharmacological and clinical studies of medicinal plants & natural products</p>
	<p>Ethnobotany of <i>Prinsepia utilis</i>, a medicinal plant in Yunnan, Southwest China.</p> <p>Y. Fan^{1,2}, X. Jiang^{1,2}, C. Long^{1,2} ¹College of Life and Environmental Sciences, Minzu University of China, Beijing ²Key Laboratory of Ethnomedicine (Minzu University of China), Ministry of Education, Beijing</p>		<p>Sesquiterpenoids with diverse skeletons from the peeled <i>Syringa pinnatifolia</i>, a Traditional Mongolian herbal medicine, and its biological activities.</p> <p>S.Jiao¹, J. Li¹, C. Liu¹, A. Li¹, S. Wuken¹, S. Chen², P. Tu¹, X. Chai¹ ¹Modern Research Center for Traditional Chinese Medicine, School of Chinese Materia Medica, Beijing University of Chinese Medicine, P. R. China ²Alashan Mongolian Hospital, East Banner of Alashan, Inner Mongolia, P. R. China</p>



<p>Nagoya protocol and the need for new forms of collaboration.</p> <p>F. Scotti¹, M. Berger², A. Hesketh³, M. Hitziger⁴, M. Heinrich¹</p> <p>¹UCL School of Pharmacy, London, UK ²Centro de Estudios en Salud, Universidad del Valle de Guatemala ³Indigena Biodiversity Limited, Gerrards Cross, UK ⁴CITES Secretariat, Palais des Nations, Genève 10, Switzerland</p>	<p>Efficacy of honey-based ophthalmic formulation in patients with corneal ulcer: A randomized clinical trial.</p> <p>M. Nejabat, K. Soltanzadeh, M. Yasemi, S. Daneshamouz, ARAkbarzadeh, M. Heydari</p> <p>Shiraz University of Medical Sciences, Iran</p>
<p>Mitigating climate change in Valmalenco (so, Italy): how can Ethnobotany contribute?</p> <p>M. Bottoni^{1,2}, C. Giuliani^{1,2}, L. Colombo^{1,2}, F. Milani^{1,2}, K. Nallio^{1,2}, P.S. Colombo^{1,2}, P. Bruschi³, G. Fico^{1,2}</p> <p>¹Department of Pharmaceutical Sciences, University of Milan, Italy ²Ghirardi Botanic Garden, Department of Pharmaceutical Sciences, University of Milan, Toscolano Maderno, Brescia, Italy ³Department of AgriFood Production and Environmental Sciences, University of Florence, Italy</p>	<p>Wound-healing activity of essential oils from five <i>Hypericum</i> spp. growing wild in Greece.</p> <p>M.E. Grafakou¹, A. Diamanti¹, E. Simirioti², A. Terezaki², C. Barda¹, I. Sfiniadakis³, M. Rallis², H. Skaltsa¹</p> <p>¹Section of Pharmacognosy & Chemistry of Natural Products, Department of Pharmacy, School of Health Sciences, National & Kapodistrian University of Athens, Greece ²Laboratory of Pharmaceutical Technology, Unity of Dermatopharmacology, Department of Pharmacy, School of Health Sciences, National & Kapodistrian University of Athens, Greece ³Laboratory of Pathology, Nautical Hospital of Athens, Greece</p>
<p>Ethnopediatric knowledge among mothers living in Southern Romania</p> <p>M. Petran, M. Gilca</p> <p>Department of Functional Sciences 1- Biochemistry, Carol Davila University of Medicine and Pharmacy, Bucharest, Romania</p>	<p>In vitro assessment of anti-influenza activity and neuraminidase inhibition of <i>Cistus creticus</i> L. subsp. <i>eriocephalus</i> (Viv.) Greuter & Burdet grown in sea coast area of South Tuscany, Italy.</p> <p>M. Biagi¹, G. Bainsi¹, E. Miraldi¹, C. Terrosi², M.G. Cusi²</p> <p>¹University of Siena, Department of Physical Sciences, Earth and Environment, Italy ²University of Siena, Microbiology Unit, Department of Medical Biotechnologies, Italy</p>



Antiprion effects of naturally occurring compounds.

A. Karsanidou¹, E. Kanata¹, A. Karioti², N. Bekas³, A. Sachinidis¹, A.K. Kanellis⁴, D. Dafou³, K. Xanthopoulos¹, T. Sklaviadis¹

¹Neurodegenerative Diseases Research Group, Laboratory of Pharmacology, School of Pharmacy, Aristotle University of Thessaloniki, Greece

²Laboratory of Pharmacognosy, School of Pharmacy, Aristotle University of Thessaloniki, Greece

³Department of Genetics, Development and Molecular Biology, Laboratory of Developmental Biology, School of Biology, Aristotle University of Thessaloniki, Greece

⁴Group of Biotechnology of Pharmaceutical Plants, Laboratory of Pharmacognosy, School of Pharmacy, Aristotle University of Thessaloniki, Greece

11:30
12:00 **Break**

12:00 **Journal of Ethnopharmacology Workshop**
13:00 Prof. Anne Pordon, Prof. Michael Heinrich

13:00
14:00 **Lunch**

14:00 **Poster session**
15:00 **Pharmacological and clinical studies of medicinal plants & natural products.**

15:00 **Aromatic and medicinal plants of the Mediterranean basin as food and dietary supplements**
17:00

Moderator: Assist. Prof. Anastasia Karioti

Chemical profile and nutraceutical features of some Mediterranean food plants.

Prof. A. Braca

Department of Pharmacy, University of Pisa, Italy

Evaluating Greek honey-bees' products (Honey, Propolis, Royal Jelly) through centuries, as vehicle of high value chemical and pharmacological potential.

Prof. I. Chinou

Laboratory of Pharmacognosy and Chemistry of Natural Products, Dept. of Pharmacy, National and Kapodistrian University of Athens

***Pistacia lentiscus* resin (Chios mastic gum): chemistry and biology.**

Assist. Prof. M. Halabalaki

Laboratory of Pharmacognosy and Natural Products Chemistry, Department of Pharmacy, University of Athens, Greece



A case of pharmaceutical development based on the therapeutic potential of the essential oil combination of three Cretan herbs (Cretan IAMA®)

S.A. Pirintsos

Department of Biology, University of Crete, Greece

Botanical Garden, University of Crete, Greece

Human gastrointestinal and colonic metabolism study of olive secoiridoids using an in vitro continuous flow dialysis system.

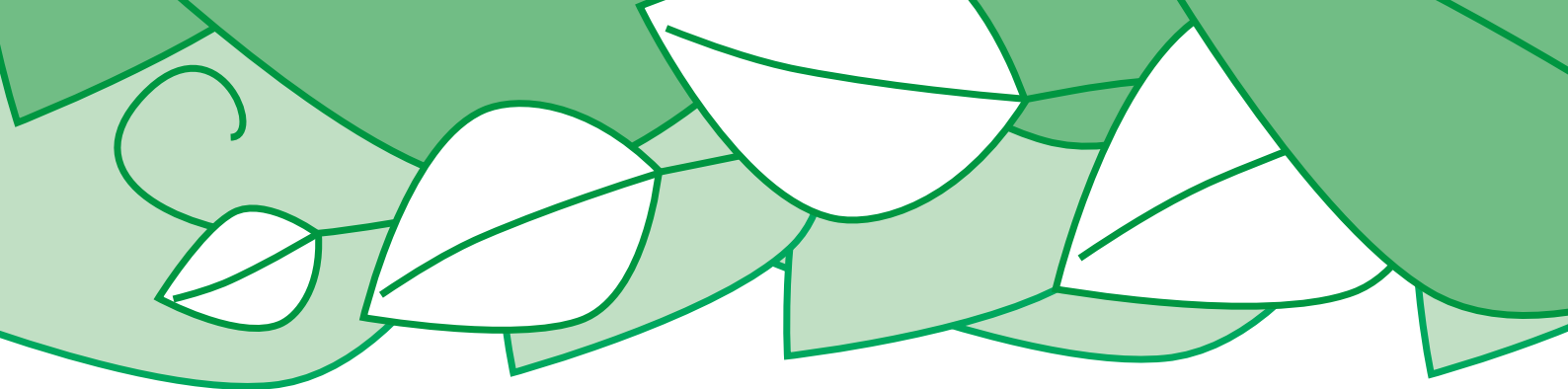
M.E. Sakavitsi¹, A. Breynaert², A. Angelis¹, L. Pieters², N. Hermans², S. Mitakou¹, M. Halabalaki¹

¹Department of Pharmacognosy and Natural Products Chemistry, Faculty of Pharmacy, University of Athens, Greece

²Research group Natural Products & Food Research and Analysis, Department of Pharmaceutical Sciences, University of Antwerp, Belgium

17:00
18:00

Closing Ceremony



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