

Austrian Drug Screening Institute GmbH

Phytovalley[®]-Tirol



Austrian Summit on Natural Products

Science and Technology behind
Phytopharmacy, Phytocosmetics and Phytonutrition

March 3 - 6, 2024
Seefeld, Tyrol, Austria

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Science and Technology behind Phytopharmacy, Phytocosmetics and Phytonutrition

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Organizing Committee

Prof. Dr. Dr.h.c. Günther Bonn, Innsbruck, Austria
Dr. Thomas Jakschitz, Innsbruck, Austria
Dr. Oliver Lutz, Innsbruck, Austria
Mag. Gökhan Senli, Innsbruck, Austria

Scientific Committee

Prof. Dr. Rudolf Bauer, Graz, Austria
Prof. Dr. Thomas Brück, Munich, Germany
Prof. Dr. Franz Bucar, Graz, Austria
Prof. Dr. Danilo Corradini, Rome, Italy
Prof. Dr. Ilkay Erdogan Orhan, Ankara, Türkiye
Dr. Ozan Fidan, Zirl, Austria
Prof. Dr. Christian Huck, Innsbruck, Austria
Dr. Bernhard Irrgang, Arlesheim, Switzerland
Prof. Dr. Luigi Mondello, Messina, Italy
Prof. Dr. Simone Moser, Innsbruck, Austria
Prof. Dr. Krystyna Skalicka-Woźniak, Warsaw, Poland
Prof. Dr. Leandros Skaltsounis, Athens, Greece
Prof. Dr. Hermann Stuppner, Innsbruck, Austria
Prof. Dr. Jean-Luc Wolfender, Geneva, Switzerland

PCO

pdl - Dr. Eugen Preuß, Innsbruck, Austria

Registration

Online via phytovalley.org only. The number of participants is limited to 80.
Onsite registration will not be possible.

Conference Webpage

phytovalley.org



The **Austrian Summit on Natural Products** is based on an initiative of the Austrian Drug Screening Institute (ADSI), a research institute of the University of Innsbruck aiming at promoting phytosciences in the Alpine regions. The conference will cover the topics of

- Phytopharmacy,
- Phytocosmetics and
- Phytonutrition

with the aim to bring young scientists together with leading experts in the field of phytosciences.

The **Austrian Summit on Natural Products** aims to improve the efficiency of phyto-logical analysis and development in these fields by providing a unique platform to discuss ways for setting-up new quality standards for research, development and production of phyto-related products. Moreover, contributions including the research & development of new innovative phytoproducts addressing the customer needs are particularly welcome.

The conference is organized by the Austrian Drug Screening Institute GmbH, focused on the screening and identification of bioactive substances in plant extracts, primarily for their application in the pharmaceutical, cosmetic and food industries.

As location Seefeld, a winter sports area in the heart of the Austrian Alps, about 20 km north-west of Innsbruck has been chosen.

Sunday, March 3, 2024

ALPIN RESORT SACHER

18:00	WELCOME RECEPTION
19:00	GALA DINNER

Venue

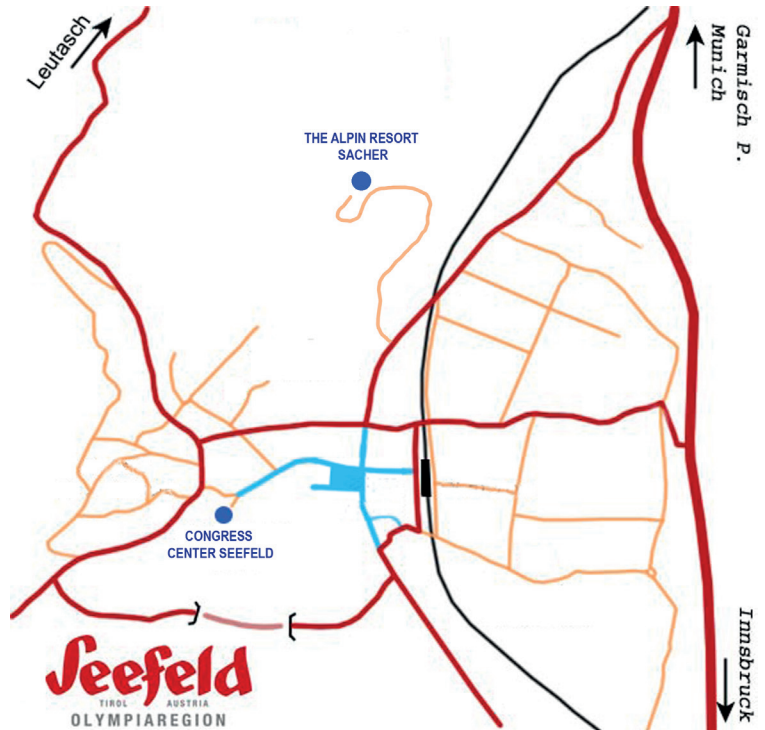
CONGRESS CENTER SEEFELD
Klosterstraße 600
6100 Seefeld
<https://www.kongress-seefeld.at/en/>

Conference Hotel

ALPIN RESORT SACHER
Geigenbühelstraße 185
6100 Seefeld
<https://seefeld.sacher.com/en/>

Get Together Location

Astoria Alm by Alpin Resort Sacher
Bahnhofstraße 124
6100 Seefeld
<https://seefeld.sacher.com/en/alm/>



Monday, March 4, 2024 – Morning

CONGRESS CENTER SEEFELD

08:00	START OF REGISTRATION	
08:30	OPENING CEREMONY	
	Günther Bonn Cornelia Hagele Gregor Weihs	<i>CEO & Scientific Director, Austrian Drug Screening Institute, University of Innsbruck, Austria</i> <i>State Council for Health, Care, Education, Science and Research, Tyrol, Austria</i> <i>Vice Rector for Research, University of Innsbruck, Austria</i>
08:45	PLENARY LECTURE	
	Nina Ruge	<i>Scientific Journalist, Bestselling Author, staYoung Media GmbH, Munich, Germany</i> HEALTHY LONGEVITY – „The Next Big Thing” ... for Business, Society, Health Systems – and for everybody. Let’s start with phytochemicals!
	Break	
	PHYTOPHARMACY I	
	Chair: Simone Moser	
09:35	Thomas Brück	<i>Professor, Head, Werner Siemens-Chair of Synthetic Biotechnology, TU Munich, Germany</i> Sustainable production of specialty and bioactive ingredients by application of synthetic biotechnology principles – a route to a circular bioeconomy for the for the cosmetic and pharma industry
10:05	Rudolf Bauer	<i>Professor, Head, Institute of Pharmaceutical Sciences, University of Graz, Austria</i> Medicinal plants as an interesting source for anti-cancer drug leads
10:35	Lukas A. Huber	<i>Professor, Director, Institute of Cell Biology, Medical University of Innsbruck, Austria</i> 3D tissue models for upper airway pathophysiology and therapy studies of SARS-CoV-2 and Influenza
11:05	Nazim Sekeroglu	<i>Professor, High Technology Application and Research Center, Gaziantep University, Türkiye</i> Chemical profile and bioactivity of the residues in some medicinal plants by-products
11:35	Franz Bucar	<i>Professor, Pharmacognosy, Institute of Pharmaceutical Sciences, University of Graz, Austria</i> Plant natural products as inhibitors of bacterial adhesion and biofilm formation
12:05	Jean-Luc Wolfender	<i>Professor, Phytochemistry and Bioactive Natural Products, University of Geneva, Switzerland</i> Automated compositional assessment of plant extracts: where are we now
	Lunch Break	

Monday, March 4, 2024 – Afternoon

CONGRESS CENTER SEEFELD

PHYTOPHARMACY II		
Chair: Rudolf Bauer		
13:35	Christoph Abels	<i>Professor, Head of Research & Development, Bionorica, Neumarkt, Germany</i> Emollients and Emollients Plus for medical skin care of very dry or eczema-prone skin
14:05	Christian Huck	<i>Professor, Head, Institute of Analytical Chemistry and Radiochemistry, University of Innsbruck, Austria</i> The wonderful land of NIR spectroscopy in phytopharmacy
14:35	Andreas Köberle	<i>Professor, Head, Michael Popp Research Institute, University of Innsbruck, Austria</i> From cannabis to therapeutic innovation: Targeting lipid mediator networks for inflammation control
15:05	Krystyna Skalicka-Wozniak	<i>Professor, Medical University of Lublin, Poland</i> Investigations into the pharmacokinetics and possible neuropharmacological modes of action using zebrafish model
Coffee Break		
PHYTOPHARMACY III		
Chair: Jean-Luc Wolfender		
15:50	Evelyn Wolfram	<i>Lecturer, School of Life Sciences and Facility Management, Section Natural Product Chemistry and Phytopharmacy, Zurich University of Applied Sciences, Switzerland</i> Monographs and scientific literature as the basis of evidence for phytotherapeutics and herbal supplements – challenges and perspectives
16:20	Simone Moser	<i>Professor, Head, Department of Pharmacognosy, Institute of Pharmacy, University of Innsbruck</i> From waste to value – can we exploit plant senescence for phytochemical research?
16:50	Alban Karlseder	<i>Bionorica Research, Innsbruck, Austria</i> Multivariate image analysis – improving objectivity in HPTLC analysis
17:10	Nadine Truchan	<i>Technical Manager, Evonik Operations, Essen, Germany</i> Pioneering in biosurfactant for next generation personal hygiene products
17:40	Marion Ringel	<i>Group Leader Natural Product Engineering and Automation, TU Munich, Germany</i> Engineering a versatile biocatalyst – insights into terpene synthases' biochemistry
19:30	Viennese Jazz Night with Jack Marsina & Flo's Jazz Casino at Alpin Resort Sacher	

Tuesday, March 5, 2024 – Morning

CONGRESS CENTER SEEFELD

09:00	OPENING CEREMONY DAY 2	
	Franz Fischler	<i>Chairman, ADSI Advisory Board, Former Minister and EU-Commissioner</i>
	Wolfgang Fleischhacker	<i>Rector, Medical University of Innsbruck</i>
PHYTOPHARMACY IV		
Chair: Thomas Brück		
09:20	Hermann Stuppner	<i>Professor, President of the Herbal Medicinal Products Platform Austria (HMPPA) Institute of Pharmacy/Pharmacognosy, University of Innsbruck</i> Saffron – Austrian medicinal plant of the year 2024
09:50	Christian Huber	<i>Professor, Department of Biosciences and Medical Biology, University of Salzburg, Austria</i> Digging in the universe of proteoforms of plant allergens using chromatography and mass spectrometry: a tough nut to crack!
10:20	Ilkay Erdogan-Orhan	<i>Professor, Gazi University, Ankara, Türkiye</i> Neuroprotection by plant phenolics: promising preclinical evidence from Drosophila to Zebra Fish
10:50	Norbert Mehlmer	<i>Group Leader Systems Biology, TU Munich, Germany</i> Metagenomic studies on polyketide and terpene based pharmaceutical compounds in lichens and plants
11:20	Ozan Fidan	<i>Gipfel Life Sciences, Zirl, Austria</i> AI-driven kampo medicine: versatile algorithms for contextualization of Japanese Traditional Medicine
11:50	Sevgi Gezici	<i>Professor, Gaziantep University, Şahinbey/Gaziantep, Türkiye</i> Emerging phytochemical-based drug delivery approaches on plant exosome-like nanovesicles and mechanisms of action in cancer
Lunch Break		

Tuesday, March 5, 2024 – Afternoon

CONGRESS CENTER SEEFELD

PHYTOCOSMETICS I

Chair: **Günther Bonn**

13:30	Saliou Ngom	<i>Senior Principal Scientist & Platform Leader, L'Oréal, Paris, France</i> Crocus sativus (saffron) stigma extract: an innovative and sustainable ingredient to improve skin protection and quality
14:00	Bernhard Irrgang	<i>Head of Research & Development, Weleda, Arlesheim, Switzerland</i> How the natural sector is touched by new legislative initiatives in the EU
14:30	Lorène Gourguillon	<i>Head of Advanced Biobased & Bioinspired Ingredients Unit, LVMH Perfumes & Cosmetics, Paris, France</i> Phytochemical study of honey, a promising active ingredient for cosmetic
15:00	Surapol Natakankitkul	<i>Professor, Chiang Mai University, Chiang Mai, Thailand</i> Phytocosmetics – the megatrends in cosmetic industry in Asia for 2024

Coffee Break

PHYTOCOSMETICS II

Chair: **Hermann Stuppner**

15:50	Danilo Corradini	<i>Professor, Institute of Chemical Methodologies, National Research Council, Rome, Italy</i> Capillary electrophoresis of phytochemicals: current and novel approaches
16:20	Julia Mösslacher	<i>Professor, Head, Department Pharmaceutical Technology & Biopharmaceutics, University of Salzburg, Austria</i> Beyond beautiful: plant-based ingredients ensuring product performance - example longan-fruit – and why this will matter to consumers in 2024
16:50	Maria Halabalaki	<i>Professor, Pharmacognosy and Natural Products Chemistry, University of Athens, Greece</i> Green chemistry and biotechnology approaches for the development of nature-based cosmetics – GreenCosmln
17:20	Theodor Braun	<i>Austrian Drug Screening Institute, Innsbruck, Austria</i> Combining chemistry and biology under the aspect of 2D and 3D screening at the ADSI
17:40	Aikaterini Argiropoulou	<i>Head of Research & Development at PharmaGnose, University of Athens, Greece</i> Chemical and biological evaluation of Greek biodiversity for the discovery of novel cosmetic agents

19:00 Get together
at Astoria Alm by Alpin Resort Sacher

Wednesday, March 6, 2024 – Morning

CONGRESS CENTER SEEFELD

PHYTONUTRITION I		
Chair: Danilo Corradini		
09:00	Luigi Mondello	<i>Professor, Pharmaceutical and Environmental Sciences Department, University of Messina, Italy</i> Advanced analysis of lipids in food using multidimensional comprehensive chromatography approaches
09:30	Leandros Skaltsounis	<i>Professor, Section of Pharmacognosy and Natural Product Chemistry, University of Athens, Greece</i> Olea europaea: a compelling source of health promoting biomolecules and an inspiration for the semi-synthetic design of bioactive analogues
10:00	Michael Oberhuber	<i>Director, Laimburg Research Centre, Italy</i> Harnessing natural products and biological control for food security in the OMICS era
10:30	Xaver Dopfer	<i>CEO & Founder, Allgäuer Ölmühle, Germany</i> Reduction/elimination of contamination during production through continuous improvement processes
Coffee Break		
PHYTONUTRITION II		
Chair: Christian Huber		
11:10	Stephan Schwarzinger	<i>Professor, Executive Manager of the North Bavarian NMR Centre, University of Bayreuth, Germany</i> The analytical supply blockchain for olive oil: the role of NMR spectroscopy and AI
11:40	Shah Hussain	<i>Austrian Drug Screening Institute, Innsbruck, Austria</i> Crafting plant-driven progress: advanced screening for dynamic phytopharmaceuticals, phytocosmetics, and phytonutrition products – from raw essence to finished excellence
12:00	Solveigh Köberle	<i>Principal investigator, Michael Popp Institute, University of Innsbruck, Austria</i> Identification of natural products that hijack endogenous redox cycles as potent inhibitors of ferroptotic cell death
12:30	Mona Ernst	<i>Head, Pharmacopoeial Analysis and Element Analysis, Phytolab, Vestenbergsgreuth, Germany</i> Quality control in phytopharmacy, phytocosmetics and phytonutrition – analytics and its challenges
13:00	Patrizia Gürth	<i>Austrian Drug Screening Institute, Innsbruck, Austria</i> The esterification of morphine upon sample treatment according to the European pharmacopeia method
13:20	Raquel Lima & Helmuth Weidlich	<i>CEO & President of the European Nutrition Association, Institut Kurz, Germany</i> Simulating the journey of nutritional molecules through the human body
13:50	Günther Bonn	Closing Remarks
End of Meeting		

Call for Abstracts

We encourage all young scientists to submit their contribution within one of the main topics:

- Analytical Studies
- Natural Products Chemistry
- Phytopharmacology & Extract Pharmacology
- Dermatology & Phytocosmetics
- Natural Products Formulation
- Ethnopharmacology
- Breeding & Cultivation
- Veterinary Phytomedicine & Animal Health
- Bioactive Natural Products
- Biosynthesis
- Regulatory Affairs

We expect compelling lectures and posters in all these areas!

To stimulate maximum interaction between leading experts in the field and young scientists, all applications will be reviewed by the scientific committee, followed by a ranking to guarantee a distribution of available places among all qualified applicants from the various countries and institutions.

Our meeting website (phytovalley.org) provides all information for submission either for oral or poster presentation.

To submit an abstract, you have to sign-up for the conference first.

Looking forward to your contribution!



This conference is organized and hosted by the Austrian Drug Screening Institute GmbH (ADSI), a research institute of the University of Innsbruck.

Austrian Drug Screening Institute GmbH

Phytovalley®-Tirol



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