

*Austrian Drug Screening Institute GmbH*

**Phytovalley<sup>®</sup>-Tirol**



## **Austrian Summit on Natural Products**

Science and Technology behind  
Phytopharmacy, Phytocosmetics and Phytonutrition

March 3 - 6, 2024  
Seefeld, Tyrol, Austria

# Austrian Summit on Natural Products

Science and Technology behind Phytopharmacy, Phytocosmetics and Phytonutrition

March 3 - 6, 2024 | Seefeld, Tyrol, Austria

## 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. Lukas A. Huber, Innsbruck, 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](https://phytovalley.org) only. The number of participants is limited to 80.  
Onsite registration will not be possible.

## Conference Webpage

[phytovalley.org](https://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**

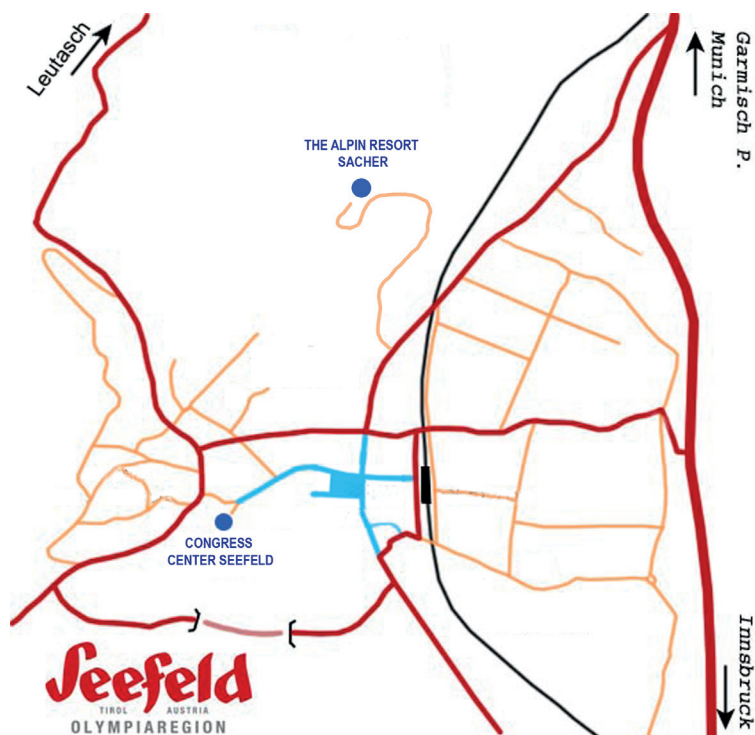
CONGRESS CENTER SEEFELD  
Klosterstraße 600  
6100 Seefeld  
<https://www.kongress-seefeld.at/en/>

**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 &amp; 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> <b>HEALTHY LONGEVITY – „The Next Big Thing” ... for Business, Society, Health Systems – and for everybody. Let’s start with phytochemicals!</b>
	Break	
	PHYTOPHARMACY I	
	Chair: <b>Simone Moser</b>	
09:35	Thomas Brück	<i>Professor, Head, Werner Siemens-Chair of Synthetic Biotechnology, TU Munich, Germany</i> <b>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</b>
10:05	Rudolf Bauer	<i>Professor, Head, Institute of Pharmaceutical Sciences, University of Graz, Austria</i> <b>Medicinal plants as an interesting source for anti-cancer drug leads</b>
10:35	Lukas A. Huber	<i>Professor, Director, Institute of Cell Biology, Medical University of Innsbruck, Austria</i> <b>3D tissue models for upper airway pathophysiology and therapy studies of SARS-CoV-2 and Influenza</b>
11:05	Nazim Sekeroglu	<i>Professor, High Technology Application and Research Center, Gaziantep University, Türkiye</i> <b>Chemical profile and bioactivity of the residues in some medicinal plants by-products</b>
11:35	Franz Bucar	<i>Professor, Pharmacognosy, Institute of Pharmaceutical Sciences, University of Graz, Austria</i> <b>Plant natural products as inhibitors of bacterial adhesion and biofilm formation</b>
12:05	Jean-Luc Wolfender	<i>Professor, Phytochemistry and Bioactive Natural Products, University of Geneva, Switzerland</i> <b>Automated compositional assessment of plant extracts: where are we now</b>
	Lunch Break	

## Monday, March 4, 2024 – Afternoon

### CONGRESS CENTER SEEFELD

PHYTOPHARMACY II		
Chair: <b>Rudolf Bauer</b>		
13:35	<b>Christoph Abels</b>	<i>Professor, Head of Research &amp; Development, Bionorica, Neumarkt, Germany</i> <b>Emollients and Emollients Plus for medical skin care of very dry or eczema-prone skin</b>
14:05	<b>Christian Huck</b>	<i>Professor, Head, Institute of Analytical Chemistry and Radiochemistry, University of Innsbruck, Austria</i> <b>The wonderful land of NIR spectroscopy in phytopharmacy</b>
14:35	<b>Andreas Köberle</b>	<i>Professor, Head, Michael Popp Research Institute, University of Innsbruck, Austria</i> <b>From cannabis to therapeutic innovation: Targeting lipid mediator networks for inflammation control</b>
15:05	<b>Krystyna Skalicka-Wozniak</b>	<i>Professor, Medical University of Lublin, Poland</i> <b>Investigations into the pharmacokinetics and possible neuropharmacological modes of action using zebrafish model</b>
Coffee Break		
PHYTOPHARMACY III		
Chair: <b>Jean-Luc Wolfender</b>		
15:50	<b>Evelyn Wolfram</b>	<i>Lecturer, School of Life Sciences and Facility Management, Section Natural Product Chemistry and Phytopharmacy, Zurich University of Applied Sciences, Switzerland</i> <b>Monographs and scientific literature as the basis of evidence for phytotherapeutics and herbal supplements – challenges and perspectives</b>
16:20	<b>Simone Moser</b>	<i>Professor, Head, Department of Pharmacognosy, Institute of Pharmacy, University of Innsbruck</i> <b>From waste to value – can we exploit plant senescence for phytochemical research?</b>
16:50	<b>Alban Karlseder</b>	<i>Bionorica Research, Innsbruck, Austria</i> <b>Multivariate image analysis – improving objectivity in HPTLC analysis</b>
17:10	<b>Nadine Truchan</b>	<i>Technical Manager, Evonik Operations, Essen, Germany</i> <b>Pioneering in biosurfactant for next generation personal hygiene products</b>
17:40	<b>Marion Ringel</b>	<i>Group Leader Natural Product Engineering and Automation, TU Munich, Germany</i> <b>Engineering a versatile biocatalyst – insights into terpene synthases' biochemistry</b>
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	<b>OPENING CEREMONY DAY 2</b>	
	<b>Franz Fischler</b>	<i>Chairman, ADSI Advisory Board, Former Minister and EU-Commissioner</i>
	<b>Wolfgang Fleischhacker</b>	<i>Rector, Medical University of Innsbruck</i>
<b>PHYTOPHARMACY IV</b>		
Chair: <b>Thomas Brück</b>		
09:20	<b>Hermann Stuppner</b>	<i>Professor, President of the Herbal Medicinal Products Platform Austria (HMPPA) Institute of Pharmacy/Pharmacognosy, University of Innsbruck</i> <b>Saffron – Austrian medicinal plant of the year 2024</b>
09:50	<b>Christian Huber</b>	<i>Professor, Department of Biosciences and Medical Biology, University of Salzburg, Austria</i> <b>Digging in the universe of proteoforms of plant allergens using chromatography and mass spectrometry: a tough nut to crack!</b>
10:20	<b>Ilkay Erdogan-Orhan</b>	<i>Professor, Gazi University, Ankara, Türkiye</i> <b>Neuroprotection by plant phenolics: promising preclinical evidence from Drosophila to Zebra Fish</b>
10:50	<b>Norbert Mehlmer</b>	<i>Group Leader Systems Biology, TU Munich, Germany</i> <b>Metagenomic studies on polyketide and terpene based pharmaceutical compounds in lichens and plants</b>
11:20	<b>Ozan Fidan</b>	<i>Gipfel Life Sciences, Zirl, Austria</i> <b>AI-driven kampo medicine: versatile algorithms for contextualization of Japanese Traditional Medicine</b>
11:50	<b>Sevgi Gezici</b>	<i>Professor, Gaziantep University, Şahinbey/Gaziantep, Türkiye</i> <b>Emerging phytochemical-based drug delivery approaches on plant exosome-like nanovesicles and mechanisms of action in cancer</b>
Lunch Break		

**Tuesday, March 5, 2024 – Afternoon**

**CONGRESS CENTER SEEFELD**

**PHYTOSMETICS I**

Chair: **Günther Bonn**

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

Coffee Break

**PHYTOSMETICS II**

Chair: **Hermann Stuppner**

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

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



## Wednesday, March 6, 2024 – Morning

### CONGRESS CENTER SEEFELD

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

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