

KRAKÓW



ICNPR 2024

INTERNATIONAL
CONGRESS ON
NNATURAL
PRODUCTS
RESEARCH

Kraków, 2024, July 13-17

PROGRAMME

SILVER SPONSORS



BRONZE SPONSORS



LOGISTICS PARTNER



PARTNERS



Content

Welcome Letter	4
Chairs of the Scientific Committee	5
Members of the Scientific Committee	5
Chair of the Organizing Committee	8
Members of the Organizing Committee	8
Congress Organizing Secretariat	8
Organizers	9
Pre-Congress Workshops, Saturday, July 13, 2024	10
Animal Healthcare and Veterinary Phytotherapy: Science and Practice (VET)	10
Early Career Researchers (ECRW)	11
African Research Network (ARN)	11
Cultivating Safety: Toxicology 101 for Botanicals and Natural Products (BSC)	12
Programme at a Glance	14
ICNPR2024 Scientific Programme	16
Saturday, July 13, 2024	16
Sunday, July 14, 2024	16
Monday, July 15, 2024	20
Tuesday, July 16, 2024	24
Wednesday, July 17, 2024	28
List of the Posters	30
Poster Session 1, Sunday, July 14, 2024	30
Poster Session 2, Monday, July 15, 2024	47
Poster Session 3, Tuesday, July 16, 2024	61
Floor Plan and Exhibition	76
List of Sponsors and Partners	79
Social Programme	82
General Information	83

Welcome Letter

Dear Participants, dear Colleagues,

on behalf of the Organizing Committee and the Scientific Committee it is our great pleasure to welcome you at the International Congress on Natural Products Research 2024 (ICNPR2024) which will be held in Kraków, Poland, July 13-17, 2024.

ICNPR2024 is co-organized by the Phytochemical Society of Europe (PSE), and our six sister societies representing the US, Europe and Asia, which include the Society for Medicinal Plant and Natural Products Research (GA), the Association Francophone pour l'Enseignement et la Recherche en Pharmacognosie (AFERP), the Italian Society of Phytochemistry and Sciences of Medicinal, Food and Perfume Plants (SIF), the American Society of Pharmacognosy (ASP), the Japanese Society of Pharmacognosy (JSP) and the Korean Society of Pharmacognosy (KSP). Every four years all of them meet together to share common interest in natural products research and exchange experience and simply unite together. It is always a unique possibility to experience this. ICNPR2024 is one of the largest gatherings of scientists involved in natural products and related fields from nearly every continent. The congress brings together experts and researchers from all over the world to share their latest findings and discuss the latest developments in the field of natural products research.

More than 1000 participants from 68 countries will deliver all together around 130 oral and almost 900 poster presentations. As a participant, you will have the opportunity to learn about cutting-edge research, network with other professionals in your field and getting involved in the extensive scientific program in many ways. Aside from that, you should also take the chance to explore the beautiful city of Kraków. It is one of the best recognizable cities in this part of Europe visited by about 10 million visitors annually. They are attracted by one-of-a-kind atmosphere and largest historical complex in Poland, unique on global scale. It is a city with a rich history and culture. The old town, with its beautiful architecture and narrow streets, is a UNESCO World Heritage site.

This congress is only possible with the collaboration of many people who were dedicated to do their best to make this event happen. First of all, we would like to thank the representatives of the seven organizing societies for their great support. Without the work of the members of the Scientific Committee it would not have been possible to handle more than 1000 abstracts and to create a scientific program of high quality, your efforts are very much appreciated. We also would like to thank plenary and keynote speakers for accepting our invitation to Krakow. We are grateful to the congress organizing secretariat, Symposium Cracoviense Sp. z o.o., for excellent cooperation in preparation of this event. Finally, we sincerely would like to acknowledge all financial support provided by the sponsors of this conference.

We hope that you will enjoy the time at ICNPR2024 and you feel not only the spirit of the city and place but also the touch of Polish culture and hospitality.



Krystyna Skalicka-Woźniak
Prof. Dr. Krystyna Skalicka-Woźniak
Chairman of the Scientific Committee



Fran Bucar
Prof. Dr. Franz Bucar
Chairman of the Scientific Committee

Chairs of the Scientific Committee

Prof. Krystyna Skalicka-Woźniak

Medical University of Lublin (Poland)

Prof. Franz Bucar

University of Graz (Austria)

Members of the Scientific Committee

Prof. Sayeed Ahmad

Centre of Excellence in Unani Medicine (India)

Prof. Shunji Aoki

Department of Pharmacy, School of Pharmacy,
Hyogo Medical University (Japan)

Ass. Prof. Dr. Maria Pia Argentieri

Department of Pharmacy, University of Bari (Italy)

Prof. Randolph Arroo

De Montfort University (United Kingdom)

Prof. Søren Bak

University of Copenhagen (Denmark)

Ass. Prof. Dr. Stefania Benvenuti

Department of Life Sciences, University of Modena e Reggio (Italy)

Prof. Clara Bik-San Lau

The University of Hong Kong (Hong Kong SAR, China)

Prof. Dr. Anna Rita Bilia

Department of Chemistry „Ugo Schiff“, University of Firenze (Italy)

Prof. Dr. Angela Bisio

Department of Pharmacy, University of Genova (Italy)

Dr. Sabrina Boutefnouchet

Université Paris-Cité (France)

Prof. Dr. Alessandra Braca

University of Pisa (Italy)

Prof. Ian Castro-Gamboa

State University of São Paulo (IQ-UNESP) (Brasil)

Prof. Lucie Cahlíková

Charles University (Czech Republic)

Prof. Paula Castillo

University of Madeira (Portugal)

Prof. Pierre Champy

Université Paris-Saclay (France)

Dr. François Chassagne

IRD Pharmadev (France)

Dr. Antigoni Cheilari

National and Kapodistrian University of Athens (Greece)

Dr. Sanem Hosbas Coskun

National Institutes of Health (Bethesda, MD, USA)

Ass. Prof. Esperanza Carache De Blanco

Ohio State University (Columbus, OH, USA)

Prof. Dr. Nunziatina De Tommasi

Department of Pharmacy, University of Salerno (Italy)

Dr. Steven Dentali

Dentali Botanical Sciences (Redondo Beach, CA, USA)

Prof. Thomas Efferth

Johannes Gutenberg University (Germany)

Prof. Halina Ekiert

Jagiellonian University, Kraków (Poland)

Prof. Francesco Epifano

University „Gabriele D’Annunzio” of Chieti, Pescara (Italy)

Prof. Maria José Umbelino Ferreira

University of Lisbon (Portugal)

Ass. Prof. Nikola Fokialakis

University of Athens (Greece)

Prof. Dr. Robert Fürst

LMU Munich (Germany)

Dr. Stefan Gafner	American Botanical Council (United States)
Ass. Prof. Katarzyna Gawel-Bęben	University of Information Technology and Management in Rzeszów (Poland)
Prof. Jürg Gertsch	University of Bern (Switzerland)
Prof. Simon Gibbons	University of Nizwa (Sultanate of Oman)
Prof. Sebastian Granica	Warsaw Medical University (Poland)
Dr. Tanja Grkovic	National Cancer Institute, National Institutes of Health (Frederick, MD, USA)
Prof. Olivier Grovel	Nantes Université (France)
Prof. De-an Guo	Shanghai Institute of Materia Medica, Chinese Academy of Sciences (China)
Ass. Prof. Dr. Maria Halabalaki	National and Kapodistrian University of Athens (Greece)
Dr. Christophe Hano	University of Orleans (France)
Prof. Dr. Michael Heinrich	University College London (United Kingdom)
Dr. Mah Siau Hui	Taylor's University (Malaysia)
Prof. Takuya Ito	Department of Pharmacy, Osaka Ohtani University (Japan)
Prof. Sanjay Jachak	National Institute of Pharmaceutical Education and Research (India)
Ass. Prof. Kyo Bin Kang	Sookmyung Women's University (South Korea)
Prof. Dr. Oliver Kayser	Technische Universität Dortmund (Germany)
Dr. Olaf Kelber	Bayer Consumer Health, Steigerwald Arzneimittelwerk GmbH, Darmstadt (Germany)
Dr. Isabelle Kerzaon	Université de Lyon (France)
Dr. Stefanos Kikionis	National and Kapodistrian University of Athens (Greece)
Dr. Chungsub Kim	Sungkyunkwan University (South Korea)
Prof. Ki Hyun Kim	Sungkyunkwan University (South Korea)
Prof. Dr. Luiz Carlos Klein Júnior	University of Vale do Itajaí (Brazil)
Prof. Ilina Krasteva	Medical University of Sofia (Bulgaria)
Prof. Wirginia Kukuła-Koch	Medical University of Lublin (Poland)
Dr. Marina Kritsanida	Université Paris-Cité (France)
Prof. Norberto Peporine Lopes	Universidade de São Paulo (Brasil)
Dr. Simon Vlad Luca	Technical University of Munich (Germany)
Ass. Prof. Agnieszka Ludwiczuk	Medical University of Lublin (Poland)
Prof. Francisco A. Macias	University of Cadiz (Spain)
Prof. Toshiaki Makino	Graduate School of Pharmaceutical Sciences, Nagoya City University
Ass. Prof. Maria Carla Marcotullio	Department of Pharmaceutical Science, University of Perugia (Italy)
Prof. Marta Mendel	Warsaw University of Life Science (Poland)

Ass. Prof. Dr. Luigi Menghini	Department of Pharmacy, University G. d'Annunzio of Chieti, Pescara (Italy)
Ass. Prof. Tomasz Mroczek	Medical University of Lublin (Poland)
Ass. Prof. Dr. Luigi Milella	Department of Science, University of Basilicata (Italy)
Prof. Hiroyuki Morita	Institute of Natural Medicine, University of Toyama (Japan)
Prof. Brian Murphy	University of Illinois at Chicago (Chicago, IL, USA)
Prof. Dr. Lutfun Nahar	Liverpool John Moores University (United Kingdom)
Prof. Ilkay Erdogan Orhan	Gazi University (Turkey)
Prof. Giorgio Pintore	Department of Medicine, Surgery and Pharmacy, University of Sassari (Italy)
Prof. Jakub Piwowarski	Warsaw Medical University (Poland)
Prof. Monica Tallarico Pupo	University of Sao Paulo (FCFRP-USP) (Brasil)
Ass. Prof. Dr. Federica Pollastro	Department of Pharmaceutical Science, University of Piemonte Orientale „Amedeo Avogadro” (Italy)
Prof. Young Pyo Jang	Kyunghee University (South Korea)
Dr. Emerson Ferreira Queiroz	Université de Genève CMU (Switzerland)
Prof. Ronald J Quinn	Griffith University (Australia)
Prof. Pascal Richomme-Peniguel	Université d'Angers (France)
Dr. Kenneth Ritchie	Liverpool John Moores University (United Kingdom)
Prof. Céline Rivière	University of Lille (France)
Prof. Dr. Judith Maria Rollinger	University of Vienna (Austria)
Dr. Caroline Rouger	Université de Bordeaux (France)
Prof. Catherine Roullier	Nantes Université (France)
Dr. Fanny Roussi	ICSN-CNRS (France)
Ass. Prof. Elwira Sieniawska	Medical University of Lublin (Poland)
Prof. Caroline Stévigny	Université Libre de Bruxelles (Belgium)
Prof. Nazım Şekeroğlu	Gaziantep University (Turkey)
Ass. Prof. Kevin Tidgewell	University of Kentucky (Lexington, KY, USA)
Prof. Michał Tomczyk	Medical University of Białystok (Poland)
Dr. Adriana Trifan	University of Medicine and Pharmacy (Romania)
Prof. Alvaro Viljoen	Tshwane University of Technology, Pretoria (South Africa)
Dr. Cica Vissiennon	Leipzig University (Germany)
Dr. Michael Walkenhorst	Research Institute of Organic Agriculture (Switzerland)
Ass. Prof. Jaclyn M. Winter	University of Utah (Salt Lake City, UT, USA)
Dr. Evelyn Wolfram	Zürich University of Applied Sciences (Switzerland)
Prof. Jean-Luc Wolfender	Université de Genève (Switzerland)
Ass. Prof. Heejung Yang	Kangwon National University (South Korea)
Prof. Jianbo Xiao	University of Vigo (Spain)

Chair of the Organizing Committee

Prof. Krystyna Skalicka-Woźniak

Medical University of Lublin (Poland)

Members of the Organizing Committee

Prof. Franz Bucar

University of Graz (Austria)

Prof. Sebastian Granica

Warsaw Medical University (Poland)

Ass. Prof. Agnieszka Ludwiczuk

Medical University of Lublin (Poland)

Prof. Jakub Piwowarski

Warsaw Medical University (Poland)

Prof. Agnieszka Szopa

Jagiellonian University, Kraków (Poland)

Prof. Michał Tomczyk

Medical University of Białystok (Poland)

Congress Organizing Secretariat



Symposium Cracoviense, PCO

PL 31-511 Kraków, ul. Rakowicka 1/14

📞 +48 12 422 76 00, ✉ icnpr2024@symposium.pl

www.symposium.pl

Meeting coordinators:

Kamilia Dudek, Senior Project Manager

kamilia.dudek@symposium.pl

Rafał Kassan, Project Manager

rafal.kassan@symposium.pl

Organizers



American Society of Pharmacognosy (ASP)

2720 Dundee Road, #260, Northbrook, IL 60062, US

☎ +1 847 447 6725, ✉ asphcog@gmail.com

www.pharmacognosy.us



Association Francophone pour l'Enseignement et la Recherche en Pharmacognosie (AFERP)

4 avenue de l'Observatoire, 75006 Paris - France

✉ isabelle.kerzaon@univ-lyon1.fr

aferp.fr

Society for Medicinal Plant and
Natural Product Research



Gesellschaft für Arzneipflanzen-
und Naturstoff-Forschung e.V.

Gesellschaft für Arzneipflanzen- und Naturstoff-Forschung e.V. (GA)

Kerschensteiner Str. 11-15, 92318 Neumarkt, Deutschland

✉ events@ga-online.org

ga-online.org/imprint-ga/



Japanese Society of Pharmacognosy (JSP)

Koishikawa Urban 4F 5-3-13 Otsuka, Bunkyo-ku, Tokyo 112-0012

☎ +81 03 5981-6011, ✉ shoyaku@asas-mail.jp

www.jspchg.or.jp



Korean Society of Pharmacognosy (KSP)

Rm 440, 606 Siheung-daero, Dongjak-gu, Seoul 07074, Republic of Korea

☎ +82 2 765 4768, ✉ ksp@ksp.or.kr

www.ksp.or.kr



Phytochemical Society of Europe (PSE)

☎ +49 8161 71 6227, ✉ vlad.luca@tum.de

www.phytochemicalsociety.org



Società Italiana di Fitochimica (SIF)

Piazza Gramsci 9, 20154 Milano (MI), Italy

☎ +39 3388666249 - 3337571104, ✉ segreteria.sif@gmail.com

www.phytosif.it

Pre-Congress Workshops, Saturday, July 13, 2024

Animal Healthcare and Veterinary Phytotherapy: Science and Practice (VET)

S3A Room

09:00 - 14:30

09:00 - 09:05 Welcome

Impulse lectures

09:05 - 09:40 Plant-derived compounds as a solution to robust health status of chickens and turkeys
Paweł Konieczka, Poland

09:40 - 10:20 Medicinal plant based treatments for infectious disease and Infertility in US organic dairy cattle
Hubert Karreman, United States

10:20 - 10:30 Posters exhibition

10:30 - 10:45 Coffee break

Veterinary phytopharmacology and clinical research

10:45 - 11:10 Effects of oregano essential oil and purple garlic powder in weaning piglets as an alternative to zinc oxide
Jorge Rivera Gomis, United Kingdom

11:10 - 11:35 Effect of gastro-resistant pellets of thymol on its absorption rate, intestinal wall integrity and accumulation in the rabbit tissues
Radoslava Kristofova, Slovakia/Austria

11:35 - 12:00 Use of botanical extracts as tranquilizer in fattening animals
Isabel Blanco-Penedo, Spain

12:00 - 12:30 Posters exhibition

12:30 Lunch break

Ethnoveterinary medicine & animal self medication

13:15 - 13:40 The food-chain transfer of ecdysteroids and its potential significance in view of human and animal health
Attila Hunyadi, Hungary

13:40 - 14:05 Behavioral and pharmacological investigation of putative self-meditative natural materials used by wild chimpanzees and mountain gorillas
Fabien Schultz, Germany

14:05 - 14:30 Variation in chemical profile and antibacterial activity of different parts of *Balanites aegyptiaca* (L.) Delile, (Zygophyllaceae) among two contrasted zones in Benin
Dassou Hospice, Benin

Early Career Researchers (ECRW)

S3B Room

09:00 – 14:30

09:00 – 09:05 Welcome by Emerson F. Queiroz, *Switzerland*

Impulse lecture

09:05 – 09:45 Indispensable then and now: natural compounds as tools for research and leads for drugs
Robert Fürst, Germany

Short lectures

09:45 – 10:00 The natural diversity of acyltransferases reveals versatility and specificity in the synthesis of gene-encoded – *Johannes A. Eckert, Switzerland*

10:00 – 10:15 Anti-inflammatory biscebranoids from aquaculture-derived soft coral Sarcophyton trocheliophorum – *Lo-Yun Chen, Taiwan*

10:15 – 10:30 Integration of Caenorhabditis elegans bioactivity assays for a sustainable identification of health promoting natural products – *Martina Redl, Austria*

10:30 – 10:45 Novel natural product inhibitors targeting oncogenic MAPK/ERK and PI3K/AKT signaling in melanoma: From large library screening to target identification – *Maria Karpouchtsi, Switzerland*

10:45 – 11:00 Towards the engineering of the plant endoplasmic reticulum for sustainable production of specialized metabolites – *Elke Clicque, Belgium*

11:00 – 11:15 PKC- α activation with new semi-synthetic 7 α -acetoxy-6 β -hydroxyroyleanone derivatives for breast cancer therapeutics – *Vera M.S. Isca, Portugal*

11:30 – 12:00 Lunch break

12:00 – 12:15 Development of a high throughput cell-based assay to highlight potential bioactive antiviral natural products against the respiratory syncytial virus (RSV) – *Paola Haemmerli, Switzerland*

12:15 – 12:30 In vitro model for predicting oral bioavailability of isoflavone C-glycosides, O-glycosides, and their aglycons – *Sabrina Zölch, Germany*

12:30 – 12:45 Dracaena cambodiana biflavonoid C2 counteracts ferroptosis by directly inhibiting lipid peroxidation and inducing the key ferroptosis suppressors GPX4 and FSP1 – *Loc Le-Xuan, Austria*

12:45 – 13:00 Dietary molecules from Glycyrrhiza foetida and their modulation on metabolic syndrome pathways – *Elena Serino, Italy*

13:00 – 13:15 How to make „extreme“ CPC greener: how to substitute alkanes in biphasic solvent systems using COSMO-RS predicting tools – *Clément Nève, France*

13:15 – 13:30 Investigating the anxiolytic activity of selected essential oils in zebrafish larvae and identification of active constituents using biochemometrics – *Veronica Busisiwe Maphanga, Republic of South Africa*

13:45 – 14:30 Break for internal jury discussion. Awards.

African Research Network (ARN)

S4A Room

12:00 – 14:30

12:00 – 12:10 Welcome

Cica Vissiennon, Leipzig University, Germany, Maria Halabalaki, University of Athens, Greece

Keynote Lecture

- 12:10 African herbal medicines – opportunities and challenges of developing herbal medicinal products in Africa
David Katerere, Tshwane University of Technology, Dept of Pharmaceutical Science, South Africa
- 12:30 Short Lecture Session
- 14:00 Networking corner – Coffee and snacks
- 14:25 Closing

Cultivating Safety: Toxicology 101 for Botanicals and Natural Products (BSC)

S4C Room

09:30 – 11:00

Welcome and Introduction

Kick off the course with a comprehensive introduction to the significance and evolving relevance of botanical safety. Dive deep into the world where tradition meets modern science.

Exposure to Botanicals: Tradition vs. Modernity

Trace the journey of botanicals from their ancient, traditional uses to their current roles in our modern world. Understand how these natural products have transformed from cultural remedies to ingredients in supplements, medicines, and cosmetics.

Routes of Exposure and ADME

Discover the various ways humans are exposed to botanicals, from skin applications to oral consumption, and understand the science of Absorption, Distribution, Metabolism, and Excretion (ADME) in relation to botanicals.

Botanical-Drug Interactions

Learn about the complexities of botanical-drug interactions. Dive deep into the common enzymes, such as CYP3A4, and how they can be affected by botanicals.

Dose Response and Its Nuances

Navigate the intricate world of dose-response, understanding key terms like LD50, NOAEL, and LOAEL.

Acute and Chronic Toxicity

Differentiate between immediate and long-term effects of chemicals. Discover how the same botanical can have varying impacts based on exposure duration.

Overview of Common Endpoints

Delve into the varied endpoints that can be affected by botanicals such as genotoxicity, carcinogenicity, hepatotoxicity, neurotoxicity, cardiotoxicity, DART, and renal impacts.

Tools for Assaying Toxicity

Get acquainted with the most common tools used in the scientific community to assay toxicity, including a variety of rodent studies and genotoxicity assays.

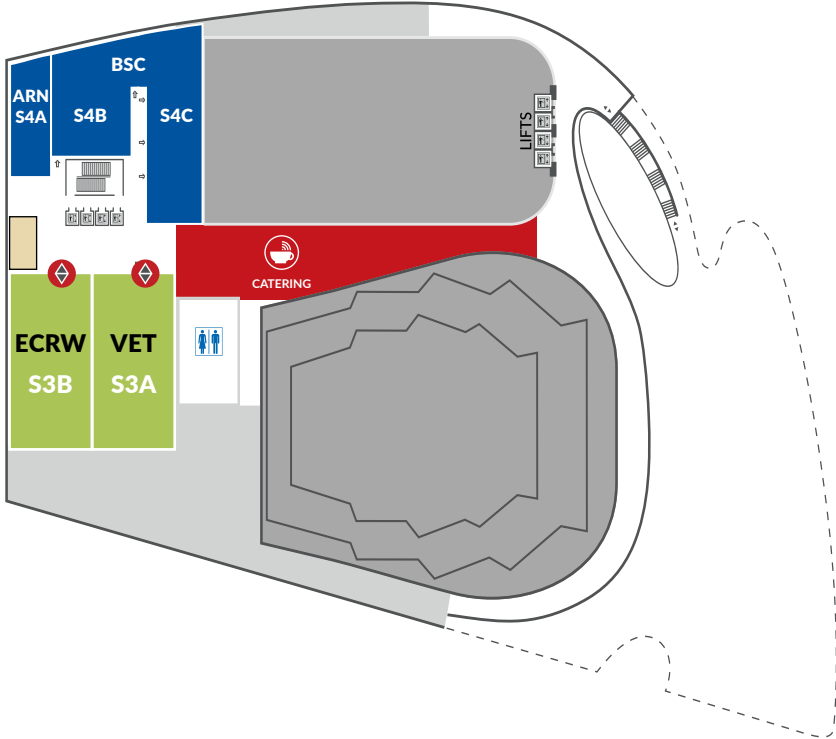
S4B Room

11:00 – 12:30

Interactive Case Studies and Scenarios

12:30 Lunch break

LEVEL 3



Catering Area



Herbonis Animal Health



Elevator



Toilets

Programme at a Glance

Saturday,
July 13, 2024

Sunday, July 14, 2024

S1
ROOM

S1
ROOM

S2
ROOM

S3
ROOM

S4C
ROOM

08:00 – 09:00

09:00 – 10:00

10:00 – 11:00

11:00 – 12:00

12:00 – 13:00

13:00 – 14:00

14:00 – 15:00

15:00 – 16:00

16:00 – 17:00

17:00 – 18:00

18:00 – 19:00

19:00 – 20:00

20:00 – 22:00

Registration
for ICNPR2024
(level 0)

Society
Session
AFERP

Coffee Break (level 0 & 1)

Society
Session
ASP

Lunch
(level 1 & 2)

Session
I

Session
II

Session
III

Workshop

Coffee Break (level 0 & 1)

Opening
Ceremony

Session
I

Session
II

Session
III

Opening
Lecture

Plenary
Lecture

Get Together
(Congress
Venue)

Poster
Session 1
(level 0)

Monday, July 15, 2024				Tuesday, July 16, 2024			Wednesday, July 17, 2024
S1 ROOM	S2 ROOM	S3 ROOM	S4C ROOM	S1 ROOM	S2 ROOM	S3 ROOM	S1 ROOM
Society Session JSP	Amway Nutrilite Session			Session New Trends			Society Session PSE
Coffee Break (level 0 & 1)				Coffee Break (level 0 & 1)			Coffee Break (level 0 & 1)
Society Session GA	Amway Nutrilite Session			Society Session SIF			Society Session KSP
Lunch (level 1 & 2)				Lunch (level 1 & 2)			Plenary Lecture
							Plenary Lecture
Session I	Session II	Session III	Session IV	Session I	Session II A	Session III	Coffee Break (level 0 & 1)
Coffee Break (level 0 & 1)				Coffee Break (level 0 & 1)			Round table discussion
Session I	Session II	Session VET		Session I	Session II B	Session III	Closing Ceremony
					Session II C		
Poster Session 2 (level 0)				Poster Session 3 (level 0)			
GA Society Members Meeting							
				Conference Dinner (Old Tram Depot)			

ICNPR2024 Scientific Programme

Saturday, July 13, 2024

S1 Room

15:00 – 17:00 Opening Ceremony

17:00 – 17:45 Opening Lecture

Carbohydrate-based vaccines, therapeutics and diagnostics and medicines produced in flow
Peter H. Seeberger, Max Planck Institute of Colloids and Interfaces, Germany

17:45 – 18:30 Plenary Lecture

Innovative analytical methods for evaluation of efficacy, safety and quality of raw materials and final products in the phyto-area

Günther K. Bonn, Austrian Drug Screening Institute GmbH (ADSI), University of Innsbruck, Austria

18:30 – 20:00 Welcome Reception (level 1 & 2)

Sunday, July 14, 2024

S1 Room

08:30 – 10:00 Society Session: AFERP

*Chairpersons: Jean-Hugues Renault, University of Reims, France
Sophie Tomasi, University of Rennes, France*

08:30 – 09:00 Medicinal plants in the fight against malaria: Investigating the *Strychnos* genus, *Artemisia* sp. and ellagic acid derivatives

Michel Frédérick, University of Liège, Belgium

09:00 – 09:30 Pharmacognosy faces new challenges: proposals to combine chemometrics and annotations based on mass spectrometry and NMR for more accurate and faster identification of bioactive natural products in complex matrices

Séverine Derbré, University of Angers, France

09:30 – 10:00 Empowering natural products research with machine learning and expert knowledge integration

Mehdi Beniddir, Université Paris-Saclay, France

10:00 – 10:30 Coffee break (level 0 & 1)

10:30 - 12:00 Society Session: ASP*Chairpersons: Tawnya McKee, ASP President, USA*

- 10:30 - 11:15 **The evolution of botanical product quality testing**
Paula Brown, British Columbia Institute of Technology, Canada - Varro E. Tyler Award
- 11:15 - 12:00 **Discovery and engineering of natural product molecules for drug development**
David Sherman, University of Michigan, United States - ASP Lifetime Achievement Award
- 12:00 - 13:30 Lunch (level 1 & 2)

S1 Room

13:30 - 16:45 Session I: Marine organisms, fungi, microbes and plants as chemical factories*Chairpersons: Nikolas Fokialakis, National and Kapodistrian University, Greece
Marina Kritsanida, Université Paris-Cité, France*

- 13:30 - 14:00 **Efficient discovery of bioactive natural products by targeted metabologenomic approaches**
Topical Lecture: Dong-Chan Oh, Seoul National University, South Korea
- 14:00 - 14:15 **Unprecedented bicyclic and tricyclic non-canonical terpenoids via synthetic biology platforms: Isolation and structure elucidation of unique C16 and C17 terpenoids**
Efstathia Ioannou, Greece
- 14:15 - 14:30 **Peptide discovery and development – known and dark matter**
Ulf Göransson, Sweden
- 14:30 - 14:45 **Co-culture exploration of some selected species of Fusarium, Pestalotiopsis and Colletotrichum in different culture media**
Paulo Cezar Vieira, Brazil
- 14:45 - 15:00 **Evaluation of biodiverse sorghum genotypes for root exudation, sorgoleone biosynthesis and carbon capture**
Leslie A. Weston, Australia
- 15:00 - 15:30 Coffee break (level 0 & 1)

*Chairpersons: Ki Hyun Kim, Sungkyunkwan University, South Korea
Ronald Quinn, Griffith University, Australia*

- 15:30 - 15:45 **'Two Neutrons Walk into a Bar'. The power of the $^{35}\text{Cl}/^{37}\text{Cl}$ isotope effect in structure elucidation of natural products by NMR and mass spectrometry**
Tadeusz Molinski, United States
- 15:45 - 16:00 **Charting the chemical content of toxic and lethal French fungi through a multiply annotated molecular networking-based approach**
Adrien Jagora, France
- 16:00 - 16:15 **Discovery of novel biopesticides from an agricultural disease nursery – A proof of concept study**
Leah Gauthier, Canada
- 16:15 - 16:30 **Deep ocean biodiscovery – diving into abyss**
Katherine Duncan, United Kingdom
- 16:30 - 16:45 **Specialized metabolites of the herptile gut fungus, Basidiobolus**
George Neuhaus, United States

13:30 – 17:00 Session II: Natural products in the era of emerging infectious diseases

Chairpersons: *Judith Rollinger, University of Vienna, Austria*

Simon Vlad Luca, Technical University of Munich, Germany

- 13:30 – 14:00 From microbes to medicine: Leveraging nature's arsenal for innovative anti-infectives
Topical Lecture: Rolf Müller, Helmholtz Institute for Pharmaceutical Research Saarland (HIPS), Germany
- 14:00 – 14:15 Observations and insights into the prolific and varied metabolites of the fascinating plant genus Dalea (Fabaceae)
Gil Belofsky, United States
- 14:15 – 14:30 Target identification of 3-(phenethylamino)demethyl(oxy)aaptamine (PDOA) as an anti-dormant Mycobacterial substance
Masayoshi Arai, Japan
- 14:30 – 14:45 Revealing anti-SARS-CoV-2 natural products from traditional remedies using molecular networking
Andreas Wasilewicz, Austria
- 14:45 – 15:00 Identification and SAR studies of indole-functionalized polyamines as antibiotic enhancers
Melissa Cadelis, New Zealand
- 15:00 – 15:30 Coffee break (level 0 & 1)

Chairpersons: *Mah Siau Hui, Taylor's University, Malaysia*

Simon Gibbons, University of Nizwa, Sultanate of Oman

- 15:30 – 15:45 Hope in hop
Céline Rivière, France
- 15:45 – 16:00 Hops (*Humulus lupulus* L.) compounds against two tropical infectious diseases: Chikungunya and Oropouche virus (Bunyavirales)
Tsvetelina Mandova, France
- 16:00 – 16:15 The phototherapeutic potential of fungal pigments
Bianka Siewert, Austria
- 16:15 – 16:30 Villosane A, an allene containing bisabolane sesquiterpene with potent antiplasmodial activity isolated from cultures of the marine derived basidiomycete *Halocyphina villosa*
Fernando Reyes, Spain
- 16:30 – 16:45 Naphthylisoquinoline alkaloids streamlining *Mycetoma* drug discover by circumventing differential diagnosis
Sami Khalid, Hungary
- 16:45 – 17:00 Antibacterial marinopyrroles and pseudilins act as protonophores
Chambers Hughes, Germany

13:30 – 17:00 Session III: Biotransformation and biosynthesis of natural products**Chairpersons:** *Francisco A. Macias, University of Cadiz, Spain**Eleni Skaltsa, National and Kapodistrian University, Greece*13:30 – 14:00 **Flavoenzyme-driven structural diversification of bacterial polyketide and tropone natural products***Topical Lecture: Robin Teufel, University of Basel, Switzerland*14:00 – 14:15 **Streamlined chemoenzymatic synthesis of cyclic peptides by non-ribosomal peptide cyclases***Toshiyuki Wakimoto, Japan*14:15 – 14:30 **Enzymatic synthesis of human phase II metabolites of flavonoids and other (poly)phenols***Kateřina Valentova, Czech Republic*14:30 – 14:45 **Fungi – important biocatalysts in production of natural pigments and fragrances***Filip Boratyński, Poland*14:45 – 15:00 **First insights in the metabolic fate of paraconic acids from *Cetraria islandica****Stefan Schwaiger, Austria*15:00 – 15:30 **Coffee break (level 0 & 1)****Chairpersons:** *Randolph Arroo, De Montfort University, United Kingdom**Kyo Bin Kang, Sookmyung Women's University South Korea*15:30 – 15:45 **Biotransformation of favelines from *Cnidoscopus quercifolius* into a new bis-nor-diterpene with anti-melanoma potential***Raimundo Gonçalves de Oliveira Junior, France*15:45 – 16:00 **Enterolactone and enterodiol produced by fermentation of Valerian root extract with human fecal samples***Maria-Eleni Grafakou, Austria*16:00 – 16:15 **Biosynthesis of bicyclo[3.3.1]nonane derivatives in *Hypericum sampsonii****Lukas Ernst, Germany*16:15 – 16:30 **Unravelling the biosynthesis of phenylphenalenones: insights from metabolites and enzymes in *Musella Lasiocarpa****Hui Lyu, Germany*16:30 – 16:45 **A BioBricks synthetic biology platform for polyketide biosynthesis***Eric Nybo, United States*16:45 – 17:00 **Discovery of new bacterial sesterterpene synthases and their products***Daniel Icenhour, United States***13:30 – 17:00 Workshop:**

Real-world data to document the use of phytopharmaceuticals in children

17:00 – 19:00 Poster Session 1

Monday, July 15, 2024

S1 Room

08:30 – 10:00 Society Session: JSP

Chairpersons: *Shunji Aoki, School of Pharmacy Hyogo Medical University, Japan*
Takuya Ito, Osaka Ohtani University, Japan

08:30 – 09:00 Colletofragarone A2 from the fungus *Colletotrichum* sp. promoted the degradation and aggregation of mutant p53
Sachiko Tsukamoto, Kumamoto University, Japan

09:00 – 09:30 Novel thiosugar sulfonioms, salacinol and neokotalanol, with antidiabetic activity obtained from plants of genus *Salacia*
Toshio Morikawa, Kindai University, Japan

09:30 – 10:00 3-epi-18 β -glycyrrhetic acid and its 30-O-glucuronide involves the development of licorice-induced pseudoaldosteronism in humans with individual differences
Toshiaki Makino, Nagoya City University, Japan

10:00 – 10:30 Coffee break (level 0 & 1)

10:30 – 12:00 Society Session: GA

Chairpersons: *Michael Heinrich, University College London, UK*
Judith Rollinger, University of Vienna, Austria

10:30 – 10:50 Welcome address

10:50 – 11:10 Planta Medica Best Paper Award and PM Special Issue
„Celebrating Austrian Pharmacognosy“

11:10 – 11:30 W. Schwabe Young Talent Price and Willmar Schwabe Award
Dr Cherry Lifeng Li, Baptist University, Hong Kong

11:30 – 11:45 GA Synergy – Award
Prof. Andreas Bender, University of Cambridge, United Kingdom

11:45 – 12:00 E. Stahl Bronze – Award
Dr Valentina Parisi, University of Salerno, Italy

S2 Room

08:30 – 12:00 Session: Amway-Nutrilitte

Roses and buds, in the current state of botanical dietary supplements – A global perspective

Chairperson: *Amit Chandra, Amway Corporation, United States*

08:30 – 08:45 Welcome and introduction to theme and panel
Amit Chandra, Amway-Nutrilitte, Michigan, USA

08:45 – 09:10 Synergy by cross pollination of the science of pharmacognosy with the botanicals industry & addressing challenges in building sustainable supply chains
Holly E. Johnson, American Herbal Products Association (AHPA), Maryland, USA

09:10 – 09:35 Xanthohumol supplementation for mitigating inflammatory bowel disease
Fred Stevens, College of Pharmacy, Linus Pauling Institute, Oregon State University, Oregon, USA

09:35 – 10:00 AI guided approach to precision nutrition
Oran Kwon, Ewha Womans University, Dept. of Nutritional Science and Food Management, Seoul, South Korea

- 10:00 – 10:30 Coffee break (level 0 & 1)
- 10:30 – 10:55 Future of Traditional Herbals, where ancient wisdom meets modern science
Amit Chandra and Summer Ragosta, Amway – Nutrilite, Michigan, USA
- 10:55 – 11:20 Safety and efficacy assessment of herbal medicines and food supplements: the ESCOP approach
Funda Yalcin, Hacettepe University, Faculty of Pharmacy – Dept. of Pharmacognosy, Ankara, Turkiye
- 11:20 – 11:45 ABC's efforts for botanical adulteration prevention program (BAPP) and sustainable herbs program
Mark Blumenthal, American Botanical Council (ABC), Texas, USA
- 11:45 – 12:00 Q/A with the presenters
- 12:00 – 12:30 Moderated panel discussion followed by interactive audience / panel
- 12:00 – 13:30 Lunch (level 1 & 2)

S1 Room

13:30 – 17:30 **Session I: Medicinal natural products: from bench to bedside**

Chairpersons: *Robert Furst, LMU Munich, Germany*

Evelyn Wolfram, Zurich University of Applied Sciences, Switzerland

- 13:30 – 14:00 Will artificial intelligence become a game changer in natural product drug discovery?
Topical Lecture: Judith M. Rollinger, University of Vienna, Austria
- 14:00 – 14:15 Exploring lipidomic changes: The impact of St. John's Wort Extract Ze 117 and Escitalopram in a rat model of depression Induced by chronic stress
Veronika Butterweck, Switzerland
- 14:15 – 14:30 Proton spin network fingerprints for dereplication, pharmacophore identification and standardization of the botanical supplement Centella asiatica
Harinantenaina L. Rakotondraibe, United States
- 14:30 – 14:45 Drug discovery pipeline reveals ellagic acid to reduce forgetting in *Caenorhabditis elegans* through specific Musashi inhibition
Tamara Balsiger, Switzerland
- 14:45 – 15:00 Anti-inflammatory and cytoprotective polypharmacology of BNO 2103 reveals targeting of IKK-NF- κ B and p38-MK2-RIPK1 axes
Taras Valovka, Germany

15:00 – 15:30 Coffee break (level 0 & 1)

Chairpersons: *Lucie Cahlikova, Charles University (Czech Republic)*

Celine Riviere, University of Lille, France

- 15:30 – 15:45 Verification of the medicinal value of Patriniae Herba for colon cancer using preclinical models
Clara Bik-San Lau, Hong Kong SAR, China
- 15:45 – 16:00 Symphytum genus: novel insights into its phytochemistry and bioactivity
Adriana Trifan, Romania
- 16:00 – 16:15 Insight into the mechanism of anti-migraine activity of butterbur (*Petasites hybridus* L.)
Łukasz Kulinowski, Poland
- 16:15 – 16:30 Study of the prebiotic potential of *Althaea officinalis* L. root extract using the high throughput *ex vivo* technology SIFR®
Olaf Kelber, Germany

- 16:30 – 16:45 Development of bio-based active materials for textiles and high-traffic objects
Emilie Stierlin, Belgium
- 16:45 – 17:00 Macroalgae derived natural product scavengers of reactive aldehyde and carbonyl species and their Implications in slowing the progression of prevalent chronic diseases
George Hanna, United States
- 17:00 – 17:15 Mitochondrial Modulators: the defenders
Emmanuel Makinde, Australia
- 17:15 – 17:30 Bioassay-guided fractionation, identification and docking experiments of α -glucosidase inhibitors from *Geum kokanicum* root
Hamid-Reza Adhami, Iran

S2 Room

13:30 – 16:45 Session II: Natural product research and the challenges of climate change – ecological and environmental solutions

- Chairpersons:** *Leandros Skaltsounis, National and Kapodistrian University of Athens, Greece*
Anca Miron, Grigore T. Popa University of Medicine and Pharmacy Iasi, Romania
- 13:30 – 14:00 Marine chemical ecology and natural products research in our changing ocean
Topical Lecture: Valerie Paul, Head Scientist, Smithsonian Marine Station at Fort Pierce, United States
- 14:00 – 14:15 Search for anti-phytopathogenic compounds by studying biotic interactions between *Fusarium* sp. and the endophytic fungi of the palm tree model *Astrocoryum sciophilum*
Véronique Eparvier, France
- 14:15 – 14:30 Using natural, greener, biodegradable and recyclable solvents to enhance lignin extraction from Acacia wood
Carla Varela, Portugal
- 14:30 – 14:45 Development of biobased films from 'Annurca' apple cellulose dopped with phenolic compounds with novel characteristics
Sarmad Ahmad Qamar, Italy
- 15:00 – 15:30 Coffee break (level 0 & 1)
- Chairpersons:** *Pascal Richomme, Université d'Angers, France*
Gaia Scalabrino, NatPro Centre, TCD, Ireland
- 15:30 – 15:45 Potential and barriers of triterpenoid saponins as tomorrow's plant based bio-pesticides
Søren Bak, Denmark
- 15:45 – 16:00 Purification of derivatives of 2-amino-3H-phenoxazin-3-one using CPC
Cristina Díaz-Franco, Spain
- 16:00 – 16:15 Leveraging phytochemical variation in *Piper scintillans* Trel. to discover novel flavanone meroterpenes
Casey Philbin, United States
- 16:15 – 16:30 Invasive weeds: a treasure chest of medicinal chemicals from Palmer amaranth (*Amaranthus palmeri*)
Katherine Warpeha, United States
- 16:30 – 16:45 Ecotoxicity studies of natural sesquiterpene lactones on *C. elegans* as soil model organism for potential bioherbicides
Francisco Javier Rodríguez-Mejías, Spain

13:30 – 15:30 Session III: Regulation for the use of natural products in food and drugs

- Chairpersons:** *Stefan Gafner, American Botanical Council, United States*
Hiroyuki Morita, Institute of Natural Medicine, University of Toyama, Japan
- 13:30 – 14:00 Three-pronged strategy of TCM quality control: deep research, holistic standard and Precision Testing
Topical Lecture: De-an Guo, Shanghai Institute of Materia Medica, Chinese Academy of Sciences, China
- 14:00 – 14:30 The Herbal Health Products in Europe – an overview on challenges and chances
Bernd Roether, Germany
- 14:30 – 14:45 Understanding psilocybin mushrooms and aiding in setting standards for a burgeoning industry in Jamaica
Rupika Delgoda, Jamaica
- 14:45 – 15:00 *Lavandula angustifolia* Mill. based soft gel capsules: Authenticity and Quality Assessment
Banaz Jalil, United Kingdom
- 15:00 – 15:30 Coffee break (level 0 & 1)

15:30 – 17:15 Session: Animal Health Care

- Chairpersons:** *Marta Mendel, Warsaw University of Life Science, Poland*
Michael Walkenhorst, Research Institute of Organic Agriculture, Switzerland
- 15:30 – 16:00 „Nature’s Pharmacy” in the context of insects – is there anything to be learned?
Topical Lecture: Michael Boppre, Germany
- 16:00 – 16:15 Gut-health histomorphometry in fattening lambs fed with hazelnut skin and linseed
Talal Hassan, Italy
- 16:15 – 16:30 *Malassezia pachydermatis* sensitivity to plant extracts from the Brazilian amazon rain forest
Ivana Barbosa Suffredin, Brazil
- 16:30 – 16:45 Orangutan herbal remedies: Lessons for human health
Ivona Foitová, Czech Republic
- 16:45 – 17:00 Willow (*Salix acmophylla*) leaf and twig extracts inhibit sporulation of coccidia (*Eimeria* spp.) in goats
Hassan Azaizeh, Israel
- 17:00 – 17:15 Hot Pepper (*Capsicum annum*) extract: not only a flavor enhancer, but also a useful fish feed Additive
Sebahattin Ergun, Turkey

13:30 – 15:30 Session IV: Prospecting aquatic and terrestrial natural biological resources for biologically active compounds

- Chairpersons:** *Nikolaos Fokialakis, National and Kapodistrian University, Greece*
- 13:30 – 13:50 SECRETed – Sustainable Exploitation of bio-based Compounds Revealed and Engineered from natuRal sources
Manuel Salvador, IDENER R&D
- 13:50 – 14:10 InnCoCells- Innovative high-value cosmetic products from plants and plant cells
Alain Goossens, Vlaams Instituut voor Biotechnologie VZW

- 14:10 – 14:30 **MARBLES** – Marine biodiversity as sustainable resource of disease suppressive microbes and bioprotectants for aquaculture and crop diseases
Fernando Reyes, Fundacion MEDINA
- 14:30 – 14:50 **Unlocking the potential of marine biotechnology: biosurfactants and siderophores** Integrative Management Platform
Manuel Salvador, IDENER R&D
- 14:50 – 15:10 **Innovative end-user applications based on siderophores**
Kieran Walshe, Accuplex Diagnostics
- 15:10 – 15:30 **Sustainable skin care ingredients from plant cells with scientifically proven efficacy**
Amir Akhgari, VTT

Level 0

17:00 – 19:00 Poster Session 2

S1 Room

19:00 – 20:30 GA Society Members Meeting

Tuesday, July 16, 2024

S1 Room

08:30 – 10:00 Session: New trends in pharmacognosy and cosmeceuticals

Chairpersons: *Milen Georgiev, Bulgarian Academy of Sciences, Bulgaria*
Jakub Piwowarski, Warsaw Medical University, Poland

- 08:30 – 09:00 **Pharmacognosy in the digital era: exciting opportunities offered by metabolomics and accessible digitised data**
Jean Luc Wolfender, Université de Genève, Switzerland
- 09:00 – 09:30 **Nanophytocosmetics – A new trend in cosmeceuticals**
Ilkay Erdogan Orhan, Gazi University, Turkey
- 09:30 – 10:00 **Nitrogenous flavonoid derivatives production by reacting with amino acids**
Jianbo Xiao, Universidad de Vigo, Spain

10:00 – 10:30 Coffee break (level 0 & 1)

10:30 – 12:00 Society Session: SIF

Chairpersons: *Marinella De Leo, University of Pisa, Italy*
Luigi Milella, University of Basilicata, Italy

- 10:30 – 11:00 **Investigating structural features and bioactivity of natural products by NMR and computational techniques**
Maria Giovanna Chini, University of Molise, Italy
- 11:00 – 11:20 **The epidemic of antibiotic-resistant: a call to research and development new bioactive molecules**
Giuliana Donadio, University of Salerno, Italy
- 11:20 – 11:40 **Metabolomic patterns in response to abiotic stimuli of Cladonia lichens from dry grasslands**
Manuela Mandrone, University of Bologna, Italy

11:40 – 12:00 **Natural products as active substances and structural components of delivery nanosystems: the case of nanovesicles**
Giulia Vanti, University of Firenze, Italy

12:00 – 13:30 Lunch (level 1 & 2)

S1 Room

13:30 – 17:00 Session I: Cutting edge technologies in natural product drug discovery, formulation and development

Chairpersons: *Emerson Ferreira Queiroz, Université de Genève CMU, Switzerland*
Stefanos Kikionis, National and Kapodistrian University of Athens, Greece

13:30 – 14:00 **Mass spectrometry in natural products from Brazil: from understanding chemical signaling to pre-clinical studies**
Topical Lecture: Norberto Peporine Lopes, Universidade de São Paulo, Brasil

14:00 – 14:15 **Ion channels: beyond native mass spectrometry**
Ron Quinn, Australia

14:15 – 14:30 **High-throughput cell phenotype screening coupled with ion mobility spectrometry of American Aconitum**
Edward Kennelly, United States

14:30 – 14:45 **Antibiotic discovery from a bacterial colony: isolation of new peptidic antibiotics using robotics, 3D printed bioassays, and MS-based bioinformatics**
Brian Murphy, United States

14:45 – 15:00 **Bioactive triterpenic acid metabolism investigation through mass spectrometry approaches**
Eleni V. Mikropoulou, Greece

15:00 – 15:30 Coffee break

Chairpersons: *Maria Halabalaki, National and Kapodistrian University of Athens, Greece*
Hongjie Zhang, Hong Kong Baptist University, China

15:30 – 15:45 **Applications of ChemGPS-NP in natural product research – exploring the Outer Rim**
Anders Backlund, Sweden

15:45 – 16:00 **Addressing the challenge of protein target identification of bioactive phytochemicals with a yeast-3-hybrid screening**
Simone Moser, Austria

16:00 – 16:15 **Remediation of plant extracts using liquid-liquid chromatography: removal of pesticides and tetrahydrocannabinol from hemp extracts as a case study**
Simon Vlad Luca, Germany

16:15 – 16:30 **nmrXiv: Enhances the utility of NMR spectroscopic data of natural products**
Venkata Chandra Sekhar Nainala, Germany

16:30 – 16:45 **Natural product-inspired chemical biology: development of highly sensitive labeling reagents for amino acids and scarce natural products**
Hideaki Kakeya, Japan

16:45 – 17:00 **Role of metabolomics in natural product discovery**
Neha Garg, United States

13:30 – 15:00 Session II A: Total synthesis and biomimetic synthesis of natural products

Chairpersons: *Søren Bak, University of Copenhagen (Denmark)*

Sebastian Granica, Warsaw Medical University, Poland

- 13:30 – 14:00 **Olea europaea: a compelling source of health promoting biomolecules and an inspiration for the semi-synthetic design of bioactive analogues**
Topical Lecture: Leandros A. Skaltsounis, National and Kapodistrian University of Athens, Greece
- 14:00 – 14:15 **Synthetic homoisoflavonoids to treat wet-stage macular degeneration**
Elisha Griffin, United Kingdom
- 14:15 – 14:30 **Minor Amaryllidaceae alkaloids as inspiration for development of highly selective butyrylcholinesterase inhibitors: Design, synthesis, and biological evaluation**
Lucie Cahlikova, Czech Republic
- 14:30 – 14:45 **Naturally based prototypes for vector-control: synthesis and modification of carlina oxide scaffold**
Eleonora Spinazzi, Italy
- 14:45 – 15:00 **Design and anti-inflammatory evaluation of ellagitannin-derived postbiotic metabolite conjugated with serotonin and dopamine**
Maciej Korczak, Poland

15:00 – 15:30 Coffee break (level 0 & 1)

15:30 – 16:15 Session II B: Genetic engineering of food crops and medicinal plants

Chairpersons: *Nunziatina De Tommasi, Department of Pharmacy, University of Salerno, Italy*

Michał Tomczyk, Medical University of Białystok, Poland

- 15:30 – 16:00 **Unravelling the fitness programs that steer plant metabolism allows creating novel tools for the engineering of plant-based production of bioactive metabolites**
Topical Lecture: Alain Goossens, Ghent University, Belgium
- 16:00 – 16:15 **Towards the engineering of the plant endoplasmic reticulum for sustainable production of Specialized Metabolites**
Elke Clicque, Belgium

16:15 – 17:15 Session II C: Medicinal natural products: from bench to bedside

Chairpersons: *Nunziatina De Tommasi, Department of Pharmacy, University of Salerno, Italy*

Michał Tomczyk, Medical University of Białystok, Poland

- 16:15 – 16:30 **A new cytotoxic diphenazine from a deep-sea fungus *Cystobasidium laryngis***
Hee Jae Shin, South Korea
- 16:30 – 16:45 **Safety and efficacy of topical Arnica tincture for the treatment of uncomplicated human cutaneous leishmaniasis**
Sara M. Robledo, Colombia
- 16:45 – 17:00 **Mesembryanthemum tortuosum improves Parkinson's disease symptoms in a zebrafish larvae model**
Keagile Lepule, South Africa
- 17:00 – 17:15 **Tailoring plants as photosynthetic production chassis for small molecules**
Connor Tansley, United Kingdom

13:30 – 17:00 Session III: Natural cosmetics, nutraceuticals, and food supplements**Chairpersons:** *Christophe Hano, University of Orleans, France**Anna-Rita Bilia, Department of Chemistry „Ugo Schiff“, University of Firenze, Italy***13:30 – 14:00** How to harness the potential of eutectic solvents for the formulation and enhancement of natural ingredient*Topical Lecture: Leslie Boudesocque Delaye, Synthèse et Isolement de Molécules BioActives, France***14:00 – 14:15** A multi-target approach to evaluate the efficacy of a capsiate rich fraction of Capsicum annuum fruit against type 2 diabetes and obesity*Shabana Khan, United States***14:15 – 14:30** Cimicifuga racemosa extract Ze 450 mediates resilience against oxidative stress, inflammatory responses and UV-induced aging through metabolic rewiring*Madeline Günther, Germany***14:30 – 14:45** Phenolic-rich Cratoxylum cochinchinense leaves extract: A promising natural cosmeceutical*Sheri-Ann Tan, Malaysia***14:45 – 15:00** Dual ¹³C NMR and LC-MS2 analysis for chemical profiling of Polynesian plant extracts*Marion Chambon, France***15:00 – 15:30** Coffee break (level 0 & 1)**Chairpersons:** *Olivier Grovel, Nantes Université, France**Luis Carlos Klein Júnior, University of Vale do Itajaí, Brazil***15:30 – 15:45** Chemical composition and nutritional value of the Sonora gum*Rachel Mata, Mexico***15:45 – 16:00** Cannabinoids and olive oil secoiridoids: a fascinating case of synergy*Evangelos Dadiotis, Greece***16:00 – 16:15** Lignosus rhinoceros extract ameliorates glutamate-induced neuronal toxicity*Tewin Tencomnao, Thailand***16:15 – 16:30** Novel health potential of isomers of 132-hydroxypheophytin a from Arthrospira platensis*Filipe Henriques, Portugal***16:30 – 16:45** Green extraction via NaDES of waste and by-products of the Aglianico cv. winery supply chain*Lara Comune, Italy***16:45 – 17:00** Bioassay-guided isolation of potential cancer chemopreventive agents from the fruits of Rhodomyrtus tomentosa*Chuanchom Khuniad, United Kingdom***17:00 – 19:00 Poster Session 3****20:00 Conference Dinner in the Old Tram Depot**

08:30 – 10:00 Society Session: PSE

Chairpersons: *Maria Jose Umbelino Ferreira, University of Lisbon, Portugal*
Franz Bucar, University of Graz, Austria

08:30 – 09:00 **Honeypot strategy for parasite weed control: An offer they cannot refuse**
Francisco Macias, University of Cadiz, Spain

09:00 – 09:30 **A (sub)cellular mapping of natural substances**
Miroslav Strnad, Palacký University in Olomouc, Czech Republic – PSE Silver Medal

09:30 – 10:00 **Utilizing natural products for weight management and longevity promotion**
Milen Georgiev, Bulgarian Academy of Sciences, Bulgaria

10:00 – 10:30 Coffee Break (level 0 & 1)

10:30 – 12:00 Society Session: KSP

Chairpersons: *Hyo-Jin An, Kyung Hee University, South Korea*
Jeong Ah Kim, Kyungpook National University, South Korea

10:30 – 11:00 **Treatment strategies of pulmonary fibrosis using natural products**
Yun-Sil Lee, Ewha Womans University, South Korea

11:00 – 11:20 **Coding metabolic profile of medicinal herbs using 2D-HPTLC**
Young Pyo Jang, Kyung Hee University, South Korea

11:20 – 11:40 **Status and prospect of natural deep eutectic solvents in current natural products research**
Young Hae Choi, Leiden University, The Netherlands

11:40 – 12:00 **Discovery and biosynthesis of specialized metabolites from human gut microbiome**
Chung Sub Kim, Sungkyunkwan University, South Korea

12:00 – 12:45 Plenary Lecture

Foundational principles can inspire bioactive natural products research
Guido F. Pauli, University of Illinois at Chicago, UIC College of Pharmacy, United States

12:45 – 13:30 Plenary Lecture

Unusual enzyme reactions in natural product biosynthesis
Ikuro Abe, The University of Tokyo, Japan

13:30 – 14:00 Coffee break with snacks (level 0 & 1)

14:00 – 15:00 Round table discussion

Moderator: *Francisco A. Macias, University of Cadiz, Spain*

The paradigm of excellence and metrics. How can we make intelligent use of AI?

15:00 Closing Ceremony

Iberogast®

Stomach problems out of the way



Clinically proven^{1,2}, evidence based
herbal medicine



With studies and surveys with
more than **50,000 patients**³

Iberogast® provides multi-symptom relief



Bloating



Gas



**Abdominal
Cramps**



Nausea



Indigestion



**Irritable
bowel
syndrome**

Iberogast®, oral fluid, complex product, herbal product

100 ml of fluid contains:

Iberis amara herb extract	(1: 1.5-2.5)	15.0 ml
extractant – ethanol 50% (v/v)		and:
Angelica root extract	(1: 2.5-3.5)	10.0 ml
Chamomile flower extract	(1: 2-4)	20.0 ml
Caraway fruit extract	(1: 2.5-3.5)	10.0 ml
Thistle fruit extract	(1: 2.5-3.5)	10.0 ml
Lemon balm leaf dry extract	(1: 2.5-3.5)	10.0 ml
Peppermint leaf extract	(1: 2.5-3.5)	5.0 ml
Chelidonium herb extract	(1: 2.5-3.5)	10.0 ml
Liquorice radix extract	(1: 2.5-3.5)	10.0 ml

The extractant used for the remaining extracts is ethanol 30% (v/v).

Iberogast contains 29.5-32.6% (v/v) ethanol.

Indications: Treatment of functional gastrointestinal motility disorders, such as functional dyspepsia or irritable bowel syndrome. These disorders are manifested mainly by gastrointestinal cramps, stomach pain, sensation of fullness, bloating, nausea and heartburn. **Posology and method of administration:** Unless your doctor says otherwise, take a small amount of liquid before or during meals 3 times a day. Adults and adolescents over 12 years of age: 20 drops, children aged 6 to 12 years: 15 drops. Oral use. Shake before use. The presence of sediment or turbidity has no effect on the effectiveness. There are no restrictions as to the duration of use. If the ailments persist after 7 days of using the product, consult a doctor about their cause.

Contraindications: hypersensitivity to any ingredient of the product. Do not use if you have or have ever had liver disease or if you are taking other medicines that may cause liver damage. **Special warnings and precautions for use:** Cases of drug-induced liver injury have been reported with Iberogast. Immediately

discontinue using Iberogast and contact a doctor if you notice signs or symptoms of liver damage such as jaundice, dark urine, pale stools or upper abdominal pain. The product is not recommended for use in children under 6 years of age. In children under 6 years of age, any abdominal pain should be consulted with a doctor. If the ailments persist after 7 days of using the product, consult a doctor about their cause. Iberogast contains ethanol at a volume concentration of approximately 31%. A single dose for adults (20 drops) contains up to 240 mg of ethanol, which corresponds to 6.2 ml of beer or 2.6 ml of wine per dose. The product is not intended and should not be used by patients with alcohol use disorder. Pregnant or breastfeeding women, children and people from highrisk groups, such as patients with liver diseases or epilepsy, should consult a doctor before taking Iberogast. There are no or only limited data on the use of the product in pregnant women (less than 300 pregnant women). Animal studies have not shown any direct or indirect reproduction toxicity (see section 5.3). As a precaution, it is recommended to avoid using the product during pregnancy. There is insufficient information on the excretion of the product/metabolites in human milk. A risk to breastfed infants cannot be excluded. A decision must be made whether to discontinue breastfeeding or to discontinue using the product, taking into account the benefits of breastfeeding for the child and the benefits of the therapy for the mother. **Undesirable effects:** In very rare cases (<1/10,000) hypersensitivity reactions such as skin reactions, itching, dyspnoea have been reported in predisposed patients. Drug-induced liver injury (elevated hepatic enzyme activity and increased bilirubin, drug-induced jaundice and cases of hepatic failure) has been reported with an unknown frequency (the frequency cannot be estimated from the available data). In case of these adverse effects, Iberogast treatment should be discontinued.

Marketing Authorisation Holder: Bayer Sp. z o.o., Al. Jerolimskie 158, 02-326 Warszawa.

Marketing Authorisation No. 10487 issued by the President of the Office for Registration of Medicinal Products, Medical Devices and Biocidal Products.

Prescription category: Medicinal product not subject to medical prescription – OTC. Full product information is available on request at: Bayer Sp. z o.o., Al. Jerolimskie 158, 02-326 Warszawa, tel.: +48 22 572 38 33, fax (22) 5723850, www.bayer.com.pl v8/1.03.2022/MK

1. Madisch A et al. Aliment Pharmacol Ther 2004;19(3):271-9. Study funded by Steigerwald Arzneimittelwerk GmbH, Darmstadt, Germany.

2. von Arnim U et al. Am J Gastroenterol 2007;102(6):1268-75. Study funded Steigerwald Arzneimittelwerk GmbH, Darmstadt, Germany.

3. Ottillinger, Bertram, et al. „STW 5 (Iberogast®)—a safe and effective standard in the treatment of functional gastrointestinal disorders.“ Wiener Medizinische Wochenschrift 163.3-4 (2013): 65-72.



List of the Posters

Poster Session 1, Sunday, July 14, 2024

Marine organisms, fungi, microbes and plants as chemical factories

- S1.P1 Anti-cancer effect of *Willughbeia edulis* Roxb. stem extract in hepatocellular carcinoma cells through triggering apoptosis and G2/M cell cycle arrest
Thi Tuyet Nhung Nguyen
- S1.P2 Chemical constituents isolated from leaves of seashore plant *Aglaia rimosa*
Jing-ru Weng
- S1.P3 Discovery of new natural products from fungi
Yi Tang
- S1.P4 OSMAC approach, the tool to unlock the biosynthetic potential of deep-sea actinobacteria
Sofia Correia
- S1.P5 Antiprotozoal activity of alkaloid fractions and isolation of four new steroidal alkaloids from *Buxus obtusifolia*
Justus Mukavi
- S1.P6 Genome mining-based discovery of new glycosylated terpenoids from *Micromonospora* sp. isolated from *Leontopodium nivale* subsp. *alpinum* rhizosphere
Jaime Felipe Guerrero-Garzón
- S1.P7 Changing Paradigms in Natural Product Discovery: A Molecule to Microbe Approach
Paul Jensen
- S1.P8 Bioactive scalarane sesterterpenoids and polybrominated diphenyl ethers from the two sponges *Hippospongia* sp. and *Dysidea* sp.
Jui-hsin Su
- S1.P9 New triterpenoid saponins from the aerial parts of *Glinus oppositifolius* and their anti-adipogenic activity
Kim-hoa Phi
- S1.P10 Chlorine-containing polyacetoxymbriaranes from the octocoral *Junceella fragilis*
Ping-jun Sung
- S1.P11 Apoptotic agents from endolichenic fungi against chemoresistant cancers
Hind Makhloufi
- S1.P12 *Aetokthonos hydrillicola* – an epiphytic cyanobacterium with surprising toxic potential
Timo Niedermeyer
- S1.P13 Cellulamides, a new family of marine-sourced peptides from a seaweed-associated Cellulosimicrobium
Mariana Cirão
- S1.P14 A High-Performance Thin Layer Chromatography (HPTLC) method to identify lichen compounds and highlight their antibacterial activity
Alice Brissoit
- S1.P15 Potent antiproliferative dimeric biaryl-cyclohexapeptides from *Lentzea flaviverrucosa*
Shugeng Cao
- S1.P16 A validated RP-HPLC-DAD method for analyzing flavonoids in caatinga Brazilian green propolis from *Mimosa tenuiflora* (Willd.) Poir. produced by *Apis mellifera* L.
Jairo Kenupp Bastos
- S1.P17 Functional oligosaccharides derived from the degradation of natural *Dendrobium* polysaccharides by human gut microbes regulate physiological factors associated with type-2 diabetes
Ming-che Cheng

- S1.P18 Discovering original antiplasmodial compounds through mass-guided exploration of the alkaloid diversity in the *Strychnos* genus
Olivier Bonnet
- S1.P19 Characterization and antimicrobial activity of extracts from microalgae *Chlorococcum* sp. with green organic solvents
Elia Lio
- S1.P20 Exploration of new biological activity of *Mikania micrantha*, a widespread weed in Asia
Grace Gar-lee Yue
- S1.P21 Preclinical study on the anti-proliferative effects and underlying mechanisms of Broussonet flavonol F in colon cancer
Yiyang Zhu
- S1.P22 Isolates of *Pavonia multiflora* as alternative control of the phytopathogen *Fusarium solani* piperis
Rodrigo Kitagawa
- S1.P23 Co-culturing *Streptomyces albidoflavus*, an epiphyte isolated from *Lavandula angustifolia* Mill., increased the anti-*Porphyromonas gingivalis* effect in exo-metabolome extracts
Rosario Flores-Vallejo
- S1.P24 Tyrosinase and hyaluronidase inhibitors in *Eleutherococcus divaricatus*
Jakub Gebalski
- S1.P25 Four Sesquiterpene-Acylated Flavonol Glycosides from the Sprouts of *Astragalus membranaceus*
So-ri Son
- S1.P26 Effects of Astrafavonoids A and D, Flavonol Glycosides from the Aerial Parts of *Astragalus membranaceus*, on TNF- α -Induced Human Dermal Fibroblasts
Mingoo Jun
- S1.P27 Harnessing the Microbial Richness of *Ips perturbatus* for Novel Antimycotic Agents
Kalindi Morgan
- S1.P28 Insights into the mechanism of antibacterial action for prenylated (iso)flavonoids from Fabaceae: a systematic study on inhibition and permeabilization of Methicillin-resistant *Staphylococcus aureus*
Janniek Ritsema
- S1.P29 *Porphyridium cruentum* as a chemical factory: valorization of high-value phycobiliproteins and lipids using an innovative solid-liquid-liquid method based entirely on eutectic solvents
Solène Odou
- S1.P30 Formicine Ant Venoms Put to the Acid Test
Lukas Koch
- S1.P31 Antibacterial activity of a novel callus culture line from *Cistus creticus*
Carmen Laezza
- S1.P32 Secondary Metabolites Produced by *Nigrospora sphaerica* Associated with the Invasive Weed *Cenchrus ciliaris*
Anna Andolfi
- S1.P33 Anti-inflammatory activity of a methanol extract of *Adiantum capillus-veneris* L.
Linru Mou
- S1.P34 Fatty acid profile of lipids from microalgae grown on media with hydrolysed agro-food biowaste
Carlo Esposito
- S1.P35 Cytotoxic cyclopeptides from the fungus *Gymnopus fusipes* (Omphalotaceae)
Attila Vanyolos
- S1.P36 Cytotoxic hederagenin saponins from the seeds of *Oxybasis rubra* (L.) S. Fuentes, Uotila & Borsch (Amaranthaceae)
Karolina Grabowska
- S1.P37 Untargeted and targeted LC-MS metabolomic analyses of putative chemical defenses in *Taenaris* butterflies
Belkes Stambouli

- S1.P38 Multimodal analysis of oak wood for a comprehensive understanding of the ageing process in French typical spirits barrels
Aline Courmut
- S1.P39 Exometabolites from the Mediterranean sponge *Agelas oroides*: where is oroidin?
Charlotte Simmler
- S1.P40 Anti-platelet aggregation and vasorelaxant activity of rapanone from *Ardisia crenata* Sims
Dagmara Wróbel-Biedrawa
- S1.P41 Unlocking Bioactivity of Endophytic Fungi from Mokrzański Forest in Wrocław, Poland
El-sayed R. El-Sayed
- S1.P42 HME-DDS-applied astaxanthin nanocapsule suppresses DNCB-induced atopic dermatitis-like inflammation in BALB/c mice
Hyo-jin An
- S1.P43 Spermidine alkaloids of the native Australian plant *Acacia auriculiformis*
Laura Coe
- S1.P44 New bioactive peptaibols from a soil fungus, *Trichoderma strigosum* (Hypocreaceae)
Yun Seo Park
- S1.P45 Evaluation of bioisosteric 6,5-fused heterocyclic salvinorin A analogues
Adam Keasling
- S1.P46 Two novel saturated alicyclic carboxylic acids in *Ginkgo biloba* (Ginkgoaceae) leaf extract EGb 761®
Žarko Kulić
- S1.P47 Microalgae: versatile microbial factories for natural product synthesis
Elia Lio
- S1.P48 Chemical and biological characterization of species of the genus *Weinmannia* (Cunoniaceae) endemic to Reunion Island for valorization purposes
Shamsia Pithon
- S1.P49 Enhancing caffeoylquinic acids production in *Limbarda crithmoides* (L.) Dumort. through yeast extract elicitation in liquid root cultures
Maria João Rodrigues
- S1.P50 Daphnane diterpenoids from the fruits of *Daphne pseudomezereum*
Kouharu Otsuki
- S1.P51 Nephroprotective *Ganoderma* sp. extracts towards cisplatin in vitro: chemical composition, metabolomics study and potential impact on cancer cells
Sébastien Sinaeve
- S1.P52 Phytochemical Differentiation of Wild Thyme from Thyme
Andressa Blainski
- S1.P53 Chemical ecology in marine fungi: diversity and dynamics of pyran-2-ones biosynthesis in a mussel-derived *Penicillium restrictum*
Olivier Crovel
- S1.P54 Development and optimization of different eco-extraction and analytical methods on *Cannabis sativa* L.
Valentin Pichon
- S1.P55 Impact of biomass hydration on the valorization of non-polar metabolites from *Spirulina* using eutectic solvents
Mervé Yagmur
- S1.P56 Chemical Investigation of the beetle *Agrilus cyanescens* (Buprestidae)
Stephen Deyrup
- S1.P57 New lipopeptides from the marine bacteria *Pseudovibrio denitrificans*
Gyu Sung Lee
- S1.P58 The Arabian Peninsula: A Largely Untapped Resource for Biotechnology
Ryan Young

- S1.P59 **Valorisation of North Atlantic Macroalgae: Antimicrobial Activity of Phlorotannins**
Adrian Kopf
- S1.P60 **Assessment of the antioxidant potential of leaf extracts from twelve Sambucus nigra varieties and their phytochemical characteristic**
Elżbieta Studzińska-Sroka
- S1.P61 **Unlocking the Potential of Geissospermum Trees: Exploring Bioactive Alkaloids for Neurodegenerative Diseases**
Marcela Šafratová
- S1.P62 **Bioguided- isolation of antimicrobial compounds against phytopathogens and human pathogens from lichen-associated bacteria**
Flavia Bollaro
- S1.P63 **Cardiometabolic effects on obese mice of the Mediterranean seagrass Cymodocea nodosa hydroalcoholic extract**
Maria Vitiello
- S1.P64 **Obtaining natural and sustainable blue dyes from the fungus Terana coerulea (Lam.) for textile application – The TEXTBLUESTYLE project**
Isabel P. Fernandes
- S1.P65 **Using low levels of antimicrobials and antiseptics as elicitors for environmental isolates to activate or re-activate antimicrobial producing biosynthetic gene clusters**
Amy McLeman
- S1.P66 **Biotransformation of the secondary metabolites from Picralima nitida and their antibacterial activities**
Florence Mabou
- S1.P67 **Natural Products isolation from subterranean fungi of Wind Cave National Park (US)**
Kirk Manfredi
- S1.P68 **Chemical and biological study of Glutamicibacter sp. NCA-315 isolated from the sinkhole Tza-Itzá in the Yucatan Peninsula**
Mario Figueroa
- S1.P69 **Comparative analysis of chemical variations across plant parts, seasons, and species in three Osmanthus plants**
Kyungha Lee
- S1.P70 **Siderophores-Mediated Antagonism of Specialized Metabolites in Fungal-Bacterial Interactions**
Huong T. Pham
- S1.P71 **Absolute Configuration of Unisolated Epimers of Pseurotin D from the Marine-Derived Fungus Penicillium janczewskii**
Yu Kyung Choi
- S1.P72 **A Solution from the Past: Exploring the Untapped Potential of Museum Specimens to Preserve Secondary**
Sam Afoullous
- S1.P73 **Discovery of a brominated Ahp-containing cyclic depsipeptide from the marine cyanobacterium Moorena sp. collected in Panama**
Byeol Ryu
- S1.P74 **The utilization of LED lamps to enhance metabolite production in plants – fagopyrins from buckwheat**
Marta Hornyák
- S1.P75 **From Bugs to Drugs: Genomic Characterisation and Bioinformatic Analysis of Streptomyces strains from the Bark Beetle Microbiome**
Anne Goll
- S1.P76 **A microscale cultivation platform integrating OSMAC to explore metabolomic changes and antimicrobial activity of a fungal strain collection**
Alexandre Bory
- S1.P77 **Enhanced production of hexylaconitic anhydride compounds from endolichenic fungus Xylaria sp. by co-culture with Chaetomium sp.**
Fotios Alexandros Lyssaios

- S1.P78 **Bioprospection of Bioactive Compounds from Fungi in Cameroon: Current Status and Outlook**
Simeon Kouam Fogue
- S1.P79 **Natural Product Biosynthesis Regulation in Fungi. What can system biology tells us?**
Samuel Bertrand
- S1.P80 **Exploration of the clusoid clade metabolome through molecular networking: In the search for fungal IRE1 inhibitors**
Thomas Charpentier
- S1.P81 **Differences in chemical compounds of selected strains of *Hericium erinaceus***
Jaroslav Matejka
- S1.P82 **Genome mining paired with stable isotope labeling allows for discovery of new cyanopeptolins in cyanobacterium *Nostoc* sp. UIC10890**
Isabel Chauvin
- S1.P83 **Diversity of *Origanum onites* essential oils in the ecological regions of Eastern Mediterranean**
Alexandros Nakas
- S1.P84 **Comparative GC/MS analysis of essential oils from two varieties of *Vitex negundo* L.**
Mariia Shanaida
- S1.P85 **Molecular interactions in the ocean microbiome: tracking fungal metabolites modifying *Procentrum lima* physiology and toxin production**
Olivier Grovel
- S1.P86 **Chemical mediation of algal microbiome across temperate and subtropical regions**
Skylar Carlson
- S1.P87 **Marine actinobacterium as a source of natural products against multiple myeloma**
Emre Gezer
- S1.P88 **Parishin derivatives from the aerial parts of *Sedirea japonica***
Yoon Seo Jang
- S1.P89 **Nitrobenzoyl sesquiterpenoids from a Hawaiian marine-derived fungus FM451**
Chen Huo
- S1.P90 **Steroid derivatives from cannabis-associated endophytic fungus *Hypoxyylon perforatum***
Chen Huo
- S1.P91 **Sesquiterpene-phthalide hybrids from cannabis-associated endophytic fungus *Zopiella* sp.**
Seo Yoon Lee
- S1.P92 **A new cyclic peptide and two new ellagic acid glycoside derivatives from *Jatropha podagrica* leaves**
Seo Yoon Lee
- S1.P93 **Discovery of new sesqui-lignans from *Salix gracilistyla* leaves and their neuroprotective effects**
Yeo Rang Cho
- S1.P94 **Lipopeptides from bioluminescent bacteria *Photobacterium luminescens***
Yeo Rang Cho
- S1.P95 **A new phenolic glycoside from the leaves of *Salix chaenomeloides* and identification of anti-skin active compounds**
Kyung Ah Kim
- S1.P96 **Transcriptome mining, immunochemistry, and MSMS de novo sequencing – phosphorylated peptides from marine sponge *Stryphnus fortis***
Blázej Ślęzak
- S1.P97 **Distribution of cyanochelins, cyanobacterial beta-hydroxy aspartate lipopeptides capable of iron chelation**
Lenka Štenclová
- S1.P98 **Syringin and Phillygenin – natural compounds with a potential role in preventing of foam cells formation in human atherosclerotic plaque**
Agnieszka Filipiek

- S1.P99 Deciphering monoterpene indole alkaloid metabolism in *Heliconius* Butterfly: a MS-based computational chemistry to describe plant-host interactions
Inès Houari
- S1.P100 Aporphine alkaloids from *Phaeanthus lucidus* Oliv. and their α -glucosidase inhibitory activity
Surat Laphookhieo
- S1.P101 Tychonemazole, a linear depsipeptide, from the cyanobacterium *Tychonema bourrellyi*
Tatsufumi Okino
- S1.P102 Isocoumarin derivatives from cannabis-associated endophytic fungus *Phialemonium* sp. SUNP1021
Se Yun Jeong
- S1.P103 Novel polyketide metabolites, skeletocutins M–Q, from *Tyromyces chioneus* and their antibacterial activity against *Staphylococcus aureus*
Se Yun Jeong
- S1.P104 Are Women-Aphrodisiacs Just a Myth?
Burcu Sen
- S1.P105 Usnic acid stereoisomeric production in the lichen-forming fungal family Parmeliaceae
Maonian Xu
- S1.P106 The Potential of Amazonian Microorganisms in Drug Discovery
Mônica Pupo
- S1.P107 From kitchen to lab: Unveiling methyl 5-vinylnicotinate and other compounds formation during cooking with olive oil
Eleni Melliou
- S1.P108 C15 acetogenins and sesquiterpenes with anti-inflammatory activity from red algae of the genus *Laurencia* collected in the Red Sea
Vassilios Roussis
- S1.P109 Diterpenes featuring the spatane, seco-spatane and prenylcubebane carbocycles from the invasive brown alga *Rugulopteryx okamurae*
Efstathia Ioannou
- S1.P110 Metabolic and biosynthetic potential of microbes isolated from North American snake venom
Katherine Lev
- S1.P111 Functionalized diterpenes featuring the cembrane skeleton from soft corals of the genus *Sarcophyton* collected in the Red Sea
Stefanos Kikionis
- S1.P112 Neuroprotective activity of *Swertia iberica* (Gentianaceae) on BV-2 microglia cells
Fatmanur Tunç
- S1.P113 Tyrosinase inhibitory and cytotoxic activities of two *Inula* species (Asteraceae)
Zeynep Gülcan
- S1.P114 Linking Soil Chemistry to Parkinson's Disease Pathogenesis: Novel Neurodegenerative Compounds from Actinomycetes
Timothy Bushman
- S1.P115 Isolation and bioactivity evaluation of sesquiterpenes from soft corals of the genus *Lemnalia* collected in the Red Sea
Vassilios Roussis
- S1.P116 Production of natural products by using plant cell cultures as chemical factories
Gilbert Corr
- S1.P117 Synergistic approaches in natural products discovery: metabolomic, genomic, and bioactivity-guided isolation of new compounds from the cyanobacterium *Phormidium* sp. LEGE 15488
Leonor Ferreira
- S1.P118 Peptide toxins from ribbon worms (Nemertea)
Erik Jacobsson

- S1.P119 Exploring the pharmaceutical potential of antarctic fungus *Epicoccum nigrum* isolated from *Kallymenia antarctica* seaweed
Hosana Deboni
- S1.P120 Antiparasitic Activity of the Antarctic fungus *Aspergillus unguis* Metabolites Against *Trypanosoma brucei*
Marcia Lopes
- S1.P121 Unlocking nature's pharmacy : Iris pseudacarus from Ireland as potential source for Antimicrobial and Anti-inflammatory compounds
Özlem Erol
- S1.P122 Antitrichomonal activity of secondary metabolites of *Alternaria* sp., a fungal endophyte of alpine Edelweiss
Elahe Mirzaei Moghadam
- S1.P123 Isolation and structural elucidation of bioactive cycloartane glycosides from *Astragalus glycyphyllos*
Monica Scognamiglio
- S1.P124 Screening marine bacterial compounds for adhesion blockers of Enteropathogenic *Escherichia coli*
Tuomas Pylkkö
- S1.P125 NMR-based metabolomics approach and anti-proliferative activity of *Olea europaea* products
Brigida D'Abrasca
- S1.P126 Potential nematocidal agents from bioactive fraction of fungus *Trichoderma parceramosum*
Carlo Raucci
- S1.P127 Antimicrobial secondary metabolites of *Trochilia* sp., a new endophytic fungus of *Lilium carnolicum*
Mostafa Alilou
- S1.P128 Seasonal variation of dimeric flavonoids in ginkgo (*Ginkgo biloba* L.) leaves
Dunja Šamec
- S1.P129 Efficient production of some bioactive depsides by *Aronia × prunifolia* (Rosaceae) microshoot agitated in vitro cultures as the effect of precursor feeding strategy
Halina Ekiert
- S1.P130 Acridone alkaloids and lignans from the leaves of *Luvunga scandens* (Rutaceae)
Thuy Bui Nguyen Bien
- S1.P131 *Schisandra henryi* bioreactor grown in vitro culture as the valuable raw material – biotechnological, phytochemical and biological studies
Agnieszka Szopa
- S1.P132 The phenolic profile and antioxidant potential of different types of *Schisandra henryi* in vitro cultures
Agnieszka Szopa
- S1.P133 Isolation and Characterisation of Stigmasterol and β -Sitosterol from *Starchytarpheta jamaicensis* (L) Vahl (Verbennaceae) leaves of Eastern Nigeria
Uchenna Odoh
- S1.P134 UHPLC-HRMS profiling of sulphated constituents in different plant parts of *Salvadora persica*
Eva-Maria Pferschy-Wenzig
- S1.P135 Koninginins DS A-C, novel polyketides from *Trichoderma koningii*, a soil fungus collected from medicinal herbal garden
Jin Woo Lee
- S1.P136 Anti-Parkinson pyridone alkaloids from an endolichenic fungus, *Thielavia* sp. CNC45
Jin Won Choi
- S1.P137 The anticancer activity and DNA synthesis inhibition potential of *Teucrium sandrasicum* and *Teucrium divaricatum* subsp. *graceum*
Nagehan Saltan
- S1.P138 Kronopolitides A-D, a new family of 36-membered polyol macrolides with antiparasitic activity
Mercedes Pérez-Bonilla

- S1.P139 A Correlative Metabologenomics Approach for the Elucidation of the Biosynthetic Pathway of 3-(3-Furyl) alanine-containing Endolides produced in *Stachylidium bicolor*
Tim Berger
- S1.P140 Discovery and structure elucidation of novel antagonistic cyclic lipopeptides for the control of fungal agricultural pathogens
Leah Gauthier
- S1.P141 Hydrogen sulfide is a key mediator in the antioxidant effects of osthole on mouse corpus cavernosum and liver
Elif Alan-Albayrak
- S1.P142 Isoimperatorin induces relaxation in mice corpus cavernosum via increasing hydrogen sulfide (H₂S) synthesis
Gökay Albayrak
- S1.P143 Purple willow (*Salix purpurea* L.) varieties as a source of valuable herbal raw material with a high content of salicylic glycosides
Paweł Sulima
- S1.P144 Exploring Myxobacteria for Bioactive Compounds against Malaria and Neglected Tropical Diseases
Abdelhalim Babiker Mahmoud
- S1.P145 Dereplication of Hidden Saponins in Bioactive Extracts
Ana M. Simanet
- S1.P146 Understanding the chemistry of the genus *Amylostereum* in its multilateral symbioses
Birthe Sandargo
- S1.P147 In vitro evaluation of proliferative activity of Turkish endemic *Prangos hulusii* S.G. Şenol, H. Yıldırım & Ö. Seçmen and its major compounds
Gökay Albayrak
- S1.P148 Spectral Data Mining of Museum-sourced Soft Corals Collected in the 19th Century for Natural Product Discovery
Jennifer Netjes
- S1.P149 Influence of flavonoid 3',8'' dimerization on antioxidant, neuroprotective, anti-hyperpigmentation and anti-diabetic activities: comparative in vitro analysis of acetin and isoginkgetin
Iva Jurčević Sangut
- S1.P150 Development of quality criteria for *Vitex pinnata* Leaf as an Herbal Medicine
Zohorul Islam
- S1.P151 Monographic characterization of *Vitex peduncularis* Leaf as an Herbal Medicine
Zohorul Islam
- S1.P152 Identification of ergot alkaloids and lysergic acid derivatives in Kykeon, a traditional concoction of the Eleusinian Mysteries
Antigoni Cheilari
- S1.P153 Molecular networking-based dereplication and structural elucidation of compounds derived from liquid culture supernatants of marine-sourced *Streptomyces* strains
Christina Koufali
- S1.P154 Src tyrosine kinase inhibitory activity of selected flavonoids
Sanda Vladimir-Knežević
- S1.P155 Green extraction of bioactive volatile terpenes from Croatian *Salvia* species
Sanda Vladimir-Knežević
- S1.P156 Anti-Fusarium activities of microemulsions of essential oils of *Artemisia annua* L. (Asteraceae) and *Salvia fruticosa* L. (Lamiaceae) to be used as pre-harvest treatment of fruits
Lucia Grifoni
- S1.P157 Antibacterial and cytotoxic activities of bark and branches extracts from *Lafoensia replicate* Pohl (Lythraceae)
Raquel Sousa
- S1.P158 Phytochemical composition and biological activities of *Pleroma granulosum* (Melastomataceae) leaf extract
Raquel Sousa

- S1.P159 Combining a 'multi-bioassay screening' approach with metabolomics for in depth exploration of four Andean-Patagonian fungi
Bastien Petit
- S1.P160 Diketopiperazines from the marine sediment-derived bacterium *Streptomyces hoynatensis*
Ozlem Demirkiran
- S1.P161 The phenolic acids production in stationary and agitated shoot cultures of *Aronia melanocarpa*, *A. arbutifolia* and *A. × prunifolia*
Halina Ekiert
- S1.P162 Meroterpenoids from *Centrapalus pauciflorus* leaves with antiproliferative activity
Judit Hohmann
- S1.P163 Volatiles derived from Philippine plant species exhibited antimicrobial activity, antioxidative and cytotoxicity using a newly developed microplate-based assay
Genesis Albarico
- S1.P164 Metabolomics-Driven Discovery of New Ophiobolin-Type Sesterterpenes from Marine-Derived Fungus Pleosporales sp. and their Antimicrobial Activities
Sailesh Maharjan
- S1.P165 Molecular Networking of Actinobacteria sourced from Thai Environments Reveals the Presence of Metabolites with Antimicrobial Properties
Amit Jaisi
- S1.P166 MSMS-based molecular networking and fragmentation patterns reveal new insights into the astins chemodiversity from the fungal endophyte *Cyanoderma asteris*
Valdet Uka
- S1.P167 Phytochemicals and Enzyme inhibition potential of *Rydingia* and *Moluccella* Species in Iran
Amir Reza Jassbi
- S1.P168 Phenanthrenes from the aerial parts of *Juncus tenuis*
Judit Hohmann
- S1.P169 Discovery of anti-inflammatory cyanobacterial secondary metabolites targeting the Keap1/Nrf2 Pathway
Fatma Al-Awadhi
- S1.P170 A terpenoids-enriched fraction of *Inula viscosa*: its chemical composition and anti-cancerous effects against human lung cancer cells
Abdullah Shaito
- S1.P171 Molecular Identification and Metabolite Profiling of Endophytes Isolated from *Bambusa vulgaris* var *striata* Shoot
Nusirat Sadiku
- S1.P172 *Annulohypoxylon stygium*, an endophyte from the marine red alga *Asparagopsis taxiformis* is a source of antiviral binaphthalenes
Dulce Silva
- S1.P173 Antibacterial Anthraquinone Produced by the Fungal Endophyte *Botryosphaeria rhodina*, Isolated from the Mangrove *Xylocarpus granatum* J. Koenig
Rudi Hendra
- S1.P174 Elucidating Phytochemical Profiles and Antibacterial Potential of *Helminthostachys zeylanica* (L.) through Untargeted LC-HRMS Metabolomics Analysis
Rudi Hendra
- S1.P175 Sesquiterpenoids and hexanorcucurbitacin from *Aquilaria malaccensis* agarwood with anti-inflammatory effects by inhibiting STAT1/AKT/MAPK/NLRP3 pathway
Jae Sik Yu
- S1.P176 Isolation of *Salvia apiana* Jeps. (Lamiaceae) essential oil—the influence of distillation technique and process parameters on the yield and composition of volatile fraction
Adam Kokotkiewicz

- S1.P177 Biomasses of *Phyllanthus* spp. (Euphorbiaceae) as a source of sulfonic derivatives of flavonoids
Barbara Sparzak-Stefanowska
- S1.P178 Antibiotic potentiating effects of *Salix* twig extracts against *Bacillus cereus*
Pia Fyhrqvist
- S1.P179 HPLC-MS and 2D-TLC analysis of secondary metabolites from the leaves of selected species and hybrids from the genus *Populus* with the estimation of their antioxidant properties
Loretta Poblocka-Olech
- S1.P180 Antibacterial and phytochemical study of Bornean Myristicaceae and Clusiaceae species
Maya Valmiki
- S1.P181 Screening for inhibition of β -haematin formation in *Rhaphiostylis beninensis* (Hook. f. ex Planch) Planch ex Benth. (Icacinaeae)
Abiodun Adeyemi
- S1.P182 New Bryostatin Derivatives from the North Atlantic Nudibranch *Janolus cristatus*
Laurence Jennings
- S1.P183 Study of the metabolic diversity of Antarctic endophytic fungus *Aspergillus unguis* in relation to different macroalgal hosts and environmental stressors
Márcia Lopes
- S1.P184 Oxidation studies on selected betacyanins from the fruits of *Hylocereus polyrhizus* under influence of ABTS cation radicals
Lukasz Kozioł
- S1.P185 Identification of novel betaxanthin pigments in jewel-like fruits of *Talinum paniculatum* (Jact.) Gaertn
Renata Górska
- S1.P186 Fatty acid profile of lipids from co-culture of microalgae and fungi
Carlo Esposito
- S1.P187 Evaluation of a standardized *Melissa officinalis* extract anti-obesity effects in high fat high sugar diet-induced obesity in rat
Yassine Mallem
- S1.P188 Biotransformation and antimicrobial studies of flavonoids with bromine and chlorine atoms
Martyna Perz
- S1.P189 In situ approaches to marine and terrestrial metabolomics
Daniel Jordan Otto
- S1.P190 Correlation between saponin content and biological activities of *Beta vulgaris* L.
Anna Tekieli

Natural products in the era of emerging infectious diseases

- S1.P191 A metabolomic approach in assessing the anti-Biofilm potentials of *F. proliferatum*-a fungal endophyte isolated from an indigenous Nigerian medicinal plant
Elizabeth Nwagwu
- S1.P192 Flavonoids content, anti-inflammatory effect and antioxidant activities methanol leaf extract of *Funtumia Africana* (Benth)
Bamidele Amos-Tautua
- S1.P193 Demystifying Bangladeshi ethnomedicines with modern approaches: *Congea tomentosa* as a source of potential anti-microbial and anti-cancer agents
Mohammad Omar Faruque
- S1.P194 In Silico Testing of Flavonoids of the *Mentha* Genus as Potential Inhibitors of NS3-Protease Domains of Dengue Viruses
Marianna Ines Lopez
- S1.P195 Application of feature based molecular network analysis for the investigation of the Covid-19 remedy *Hanshiyi*
Stefanie Tiefenbacher

- S1.P196 Pathophysiological assessment of trypanocidal activities of ethanolic leaf extract and fractions of *Azadirachta indica* on infected experimental model
Nnedinma Nancy Nnodim
- S1.P197 Antioxidant Activity and Structural-Activity Relationship (SAR) Study of Stilbenoids Isolated from the Stem Bark of *Anisoptera laevis* (Dipterocarpaceae)
Noorazlina Adnan
- S1.P198 Resveratrol dimer and tetramers from the isolation of *Shorea pauciflora* King. (Dipterocarpaceae)
Aisyah Salihah Kamarozaman
- S1.P199 In-Silico and In-Vitro Evaluation of Natural Product Scaffolds to Overcome the Scourge of Drug Resistant Tuberculosis by Virtual Based Drug Design Approach
Vilas Jagatap
- S1.P200 Exploring Malaysian biodiversity in the fight against antibiotic resistance
Isabel Ramón Martínez
- S1.P201 Effect of Seasonal and Geographical Location on the Secondary Metabolic Contents of *Artemisia afra* and *Artemisia annua*. Anti-plasmodial Properties
Methodius Shinyuy Lahngong
- S1.P202 Ecology, metabolome and occurrence of *Pseudallescheria* sp. associated with termites
Véronique Eparvier
- S1.P203 *Tetracera alnifolia* (Wild) Drake popular in Guinean traditional medicine possesses some biological activities *in vitro*
Elhadj Saidou Balde
- S1.P204 Specialized metabolites with antiviral properties from a Vietnamese plant: isolation and synthesis
Linh Hoang Phan
- S1.P205 From Signaling Molecules to Secondary Metabolites: Harnessing c-di-GMP for Enhanced Natural Product Biosynthesis in *Streptomyces*
Olaf Latta
- S1.P206 A novel natural product from the leaves of a *Solanum* spec. (Solanaceae) shows antimicrobial activity against multiple multi-resistant pathogens
Alexander Sonntag
- S1.P207 Prenylated phenolics from Fabaceae as inhibitors of the multidrug efflux pump NorA
Carla Araya-Cloutier
- S1.P208 Improving the activity of pleuromutilin antibiotics
Kerrin Hainsworth
- S1.P209 Bioactivity-guided investigations on biofilm inhibition with *Rubus chamaemorus* leaf extracts
Hildegard Kieninger
- S1.P210 Insights into the nature of the microalgal toxins from the *Chrysochromulina leadbeateri* blooms in Northern Norwegian fjords
Xinhui Wang
- S1.P211 Revisiting F.P. Porcher's Resources of Southern Fields and Forests (pub. 1863): Insights into the Forgotten Medicinal Botany of the Southeastern United States
George Hanna
- S1.P212 Bioassay-guided interpretation of antimicrobial compounds from *Limonia acidissima*
Ajmal Khan
- S1.P213 Targeted isolation of potent antiviral cyclopeptides from tropical plant extracts
Cécile Apel
- S1.P214 Anti-*Helicobacter pylori* compounds isolated from *Sambucus williamsii*
Mi-jeong Ahn

- S1.P215 Lignans from autochthonous Argentinians *Larrea* species : potential use in the control of microorganisms in agriculture
Sarah Tanguy Guillo
- S1.P216 Traditional Middle Eastern spice blends (Baharat): Antimicrobial activity, metabolomic profile, and trace element analysis
Mauro DI STASI
- S1.P217 Ethnopharmacological survey of medicinal plants traditionally used in Tanzania for the management of sickle cell disease
Godfrey Sambayi
- S1.P218 Bio-elicitation of isoquinoline alkaloids in *Chelidonium majus* in vivo & in vitro
Sylvia Zielińska
- S1.P219 In vitro anti-*Helicobacter pylori* activity of extracts and essential oil of *Thymus pannonicus* All. (Lamiaceae)
Jelena Arsenjević
- S1.P220 Assessing the structural interaction profile differences between Natural Products and Synthetics, a data-driven approach
Yojana Gadiya
- S1.P221 Guttiferones-targeted dereplication integrating LC-HRMS/MS and ¹³C-NMR data: A comparative metabolomic study of *Symphonia globulifera* latex
David Hozain
- S1.P222 QSAR-derived opportunities of prenylated phenolic compounds from Fabaceae as antimicrobial phytochemicals
Carla Araya-Cloutier
- S1.P223 Phytochemistry and biological activities of *Ostericum palustre* (*Angelica palustris*) (Apiaceae)
Grazyna Łaska
- S1.P224 Discovery of Two New Bicyclic Macrolides from *Kitasatospora acidiphila*
Yegang Hur
- S1.P225 The potential of curry leaf extract in controlling SARS-CoV-2 infectious syndromes
Hui-chun Wang
- S1.P226 Antiviral effect of *Hoveniae Semen Seu Fructus* against Influenza A viral infection
Won-kyung Cho
- S1.P227 *Thuja orientalis* Folium contains antiviral effect against Influenza A viral infection via modulating hemagglutinin and neuraminidase
Jin Yeul Ma
- S1.P228 Exploring the phytochemistry, antibacterial and anti-inflammatory activities of three Ericaceous species native to Ireland
Gaia Scalabrino
- S1.P229 Funicone-like Compounds: potential antiviral agents towards canine coronavirus
Maria Michela Salvatore
- S1.P230 Efficacy of food waste as a potential source of antibacterial agents and antibiotic adjuvants against MRSA and MSSA isolates
James Blee
- S1.P231 Coumarins of *Angelica archangelica* roots inhibit efflux pumps in *Escherichia coli*
Vanessa Baumgartner
- S1.P232 Thymoquinone potentiates activity of antibiotics against clinical isolates of *Mycobacterium tuberculosis*
Elwira Sienawska
- S1.P233 Exploring Olikomycin A: A Novel Lipopeptide Antibiotic - Insights into its Mechanism of Action
Luisa Munz
- S1.P234 GC-MS analysis of essential sandalwood oils with in vitro activity against *Madurella mycetomatis*
Stephan Seegers

- S1.P235 Bio-guided approach as a valuable tool in the phytochemical investigation of three underexplored Myrtaceae plants
Francesca Guzzo
- S1.P236 From poison to potential: Nb-methyl usambarensine reveals antiviral activity against SARS-CoV-2
Kristi Leka
- S1.P237 Semi-synthetic ecdysteroids as promising new antichagasic agents
Márton Benedek Háznagy
- S1.P238 Exploring the potential biopesticide application of nemertide alpha-1 on parasitic and disease vector mosquitoes
Quentin Laborde
- S1.P239 Chemical constituents of Sambucus nigra fruit (European Elderberry)
Zulfiqar Ali
- S1.P240 Invasive plants as promising solutions against biofilms
Marion Girardot
- S1.P241 Isolation and characterization of antimicrobial compounds from Picralima nitida (Apocynaceae)
Makafui Gbemu
- S1.P242 Identification of a Potent Antibiotic Compound from Geodermatophilus Bacteria
Sunmin Woo
- S1.P243 Ethnobotany as a tool for targeted discovery of bioactive natural products for emerging infectious diseases
Cassandra Quave
- S1.P244 Amaryllidaceae alkaloids as promising anti-dengue phytochemicals
Emmy Tuenter
- S1.P245 Multi-target action of volatile compounds from essential oils in the treatment of periodontitis
Ruxandra Ștefănescu
- S1.P246 Metabolomic-guided phytochemical investigation and antimicrobial activity of Morus alba L. twigs extract
Giuseppina Chianese
- S1.P247 A new approach to study the mechanisms of action of antimicrobial plant-derived molecules in prokaryotic cells
Raffaella Nocera
- S1.P248 Harnessing the constrained macrocyclic peptide frameworks for the development of antimicrobial peptides to treat infections
Taj Muhammad
- S1.P249 A steroid-rich fraction from parasitic climber Coccilus hirsutus (L.) W. Theob inhibits coronavirus disease and neutrophilic inflammation
Vidya Febrasca Tenderly
- S1.P250 Sargassum fusiforme and its components inhibits Respiratory Syncytial Virus replication in vitro and in vivo
Jong-soo Lee
- S1.P251 Inhibition of Respiratory Syncytial Virus in vitro and in vivo by Apostichopus japonicus (selenka) extract
Jong-soo Lee
- S1.P252 Aster tataricus and its components displays a broad spectrum of antiviral effects in Vitro and in Vivo
Jong-soo Lee
- S1.P253 Extracts of Costus speciosus suppresses Influenza A H1N1 activity in Vitro and in Vivo
Jong-soo Lee
- S1.P254 Exploring faba bean pods as a potential nutritional supplement for piglet gut health
Inna Vlasova
- S1.P255 Anti-inflammatory properties of twelve Norwegian medicinal plants and their protective properties against impairments in the intestinal epithelial barrier
Andrea Angelov

- S1.P256 Could Bistort rhizome serve as a potential alternative to antibiotics in preventing diarrhea in weaned pigs?
In vitro study
Marcin Równicki
- S1.P257 Detection and insight into structural requirements of SARS_CoV2 antibodies by peptide-oligonucleotides derived from sunflower trypsin inhibitor 1 (SFTI-1) peptide
Sunithi Gunasekera
- S1.P258 Chemical analyses and in vitro biological properties of *Lythrum salicaria* L. for potential use in piglet nutrition
Yuliia Kostenko
- S1.P259 Therapeutic Potential of Stilbene/ β -diketone/gingerol Allied Naturally Occurring Non-flavonoids in Triple-Positive Breast Cancer: Tracing the Path from Extraction to Efficacy
Lairikyengbam Deepti Roy
- S1.P260 Drug discovery based on essential oils concurrently active against eumycetoma and actinomycetoma with *Pimpinella anisum* emerged as a forerunner
Shereen Abd Algaffar
- S1.P261 Synthesis of autoinducer-2 prodrugs and analogues as a new antimicrobial strategy
M. Rita Ventura
- S1.P262 Bioactive Compounds, Antibacterial and Antioxidant activities of methanol Extract of *Axonopus compressus* (Sw.) P. Beauv
Olaoluwa Olowe
- S1.P263 The anti-inflammatory and pro-resolving role of selected South African medicinal plants used traditionally as immunomodulatory remedies
Gugulethu Khumalo
- S1.P264 Phytochemical Analysis and Antiplasmodial Activity of *Pseudolachnostylis maprouneifolia* Fruit Extracts
Patricia Mbombo Mungitshi
- S1.P265 Reconstruction of an ancient treatment of infections by incense
Selina Grollitsch
- S1.P266 Chelation of metal ions by tannins: from protolytic equilibrium to antibacterial activity
Franjo Frešer
- S1.P267 Effect of pH on UV/Vis and CD spectrum of cohumulone and colupulone
Gregor Hostnik
- S1.P268 Inhibitory activity of *Vitex negundo* (Lagundi) leaf extracts against biofilm formation and quorum sensing of *Vibrio cholerae*
Franco Miguel Nodado
- S1.P269 Exploring the Role of Tannin-Metal Ion Complex Formation in Antimicrobial Activity
Sara Štumpf
- S1.P270 Isolation of flavonoids from the stem bark of *Cynometra malaccensis* Meuwien
Noorazlina Adnan
- S1.P271 Chemical constituents from the Leaves of *Dipterocarpus costulatus* (Dipterocarpaceae)
Aisyah Salihah Kamarozaman
- S1.P272 16-Angeloyloxy tigiane diterpenoid esters from *Euphorbia cooperi* with anti-HIV activity
Sbonelo Hlengwa
- S1.P273 Anti-inflammatory and Anti-oxidative Effects of STW 42 and Root Extract of *Althaea officinalis* L. on endothelial cells, fibroblasts and macrophages in vitro
Marlon Palm
- S1.P274 Ancient Remedies for Modern Challenges: Novel Anti-infectives from Egyptian Mummy Embalming
Raphael Reher
- S1.P275 Identification of natural compounds targeting the *Plasmodium falciparum* pyruvate kinases
Rym Attia

- S1.P276 The relationship between bioactivity and taxonomy of Euphorbia species in South Africa
Fanie Van Heerden
- S1.P277 Structure activity studies of anti-parasitic norditerpenes from subterranean fungi
Christine Salomon
- S1.P278 Bioactive terpenoids from members of the Hericiaceae
Winnie Sum
- S1.P279 Isolation, structural characterization and antiprotozoal activity of steroidal alkaloids from *Pachysandra terminalis*
Lizanne Schäfer
- S1.P280 Antibacterial Activity of different extracts of *Plicosepalus acacia*
Omaish Alqahtani
- S1.P281 *Epimedium koreanum* attenuates Influenza A viral infection by modulating hemagglutinin and neuraminidase
Jin Yeul Ma
- S1.P282 Anti-biofilm and anti-quorum sensing activity of galloylquinic acids from *Copaifera lucens* leaves against clinical isolates of multidrug-resistant *Pseudomonas aeruginosa* in open wound infection: in vitro and in vivo study
Mohamed Abd El-Salam
- S1.P283 Effects of raw and boiled ginger (*Zingiber officinale* Roscoe) on hyperlipidemia in high cholesterol diet-induced obese rats – A comparative therapeutic study
Seun Akomolafe
- S1.P284 Triterpenoids from the roots of *Anthocleista djalensis* and their antiplasmodial, antimicrobial, and antitrypanosomal properties
Ijeoma Okoro
- S1.P285 Enzymatic Synthesis of Tryptophan-Linked DKP Dimers: Expanding Biosynthetic Routes for Antifungal Drug Discovery
Natalia Harris
- S1.P286 An Investigation of *Origanum onites* and *Thymus fallax* in Terms of the European Pharmacopoeia Criteria
Pelin Taştan
- S1.P287 Transformation of food by-products into high value added extracts with antimicrobial properties
Katarzyna Tyskiewicz
- S1.P288 Secondary metabolites as chemotaxonomical markers in *S. myrsinifolia* and *S. starkeana* twigs extracts
Enass Salih
- S1.P289 Carvacrol solution and copper nanoparticles as an effective and non-phytotoxic treatments of carrot seeds against the pathogenic bacterium *Xanthomonas hortorum* pv. *carotae*
Dorota Tekielska
- S1.P290 Characterization of polyphenolic compounds from an antibacterial twig methanol extract of *Salix aurita*
Eunice Ego Mgbeahuruike
- S1.P291 Antimicrobial and anti-biofilm properties of geranylated flavonoids from *Paulownia tomentosa* Steud. fruit
Lenka Molčanová
- S1.P292 Navigating Experimental Metabolomics Knowledge Graphs for Targeted Isolation of Anti-Infective Natural Products
Olivier Kirchhoffer

Biotransformation and biosynthesis of natural products

- S1.P293 Discovery of novel terpene hydrocarbon scaffolds and their associated tailoring enzymes from *Streptomyces* bacteria
Diana Łomowska-Keehner
- S1.P294 Effects of difference LED light colors on isoflavonoids production in *Pueraria candollei* callus culture
Worapol Sae-Foo

- S1.P295 Elicitation of licorice callus for improving flavonoids production
Waraporn Putalun
- S1.P296 Chemopreventive properties of *Alchemilla vulgaris* extract biotransformed by the human gut microflora – preliminary study of a human cellular model of colon cancer
Katarzyna Jakimiuk
- S1.P297 Chemical characterization, prebiotic and anti-diabetic effects of galactomannans from two traditional Chinese medicine herbs
Ching-yi Lu
- S1.P298 Phytochemical profiling of phenolic metabolites in flower buds of *Magnolia kobus* DC. and their antioxidant activity
Aldona Adamska-Szewczyk
- S1.P299 A research of the optimization of recombinant protein expression based on plant system
Juho Lee
- S1.P300 Cyanobacterial natural products: bioactive cyclic and linear peptides
Chin-soon Phan
- S1.P301 Investigation of the effect of solid state fermentation on the release of phenolic compounds from by-products of the agro-food industry
Ewa Szczepańska
- S1.P302 Biosynthesis of gramine in barley by a cryptic oxidative rearrangement
Shenyu Liu
- S1.P303 Urolithin production in ex vivo incubations of gut microbiota – survey on different substrates and antibiotics' influence
Dominik Popowski
- S1.P304 Identification of gene cluster for biosynthesis of antiviral polyketide limocrocin
Sofia Melnyk
- S1.P305 Reconstitution of natural products biosynthetic pathways using cell-free synthetic biology
Deepa Acharya
- S1.P306 Biotransformation of phlorotannins from brown algae to enhance bioactivity
Lea Karlsberger
- S1.P307 Enhancing Polyphenol Profiles and Production: A Novel Approach through Synergistic Non-Symbiotic Fungi and Organic Fertilization
Daniel Raus de Baviera
- S1.P308 The potential role of aqueous extract from fruits of *Chaenomeles japonica* and its post-digestive fractions in inflammation-related intercellular communication
Monika Czerwińska
- S1.P309 *Phlegmariurus carinatus* in vitro culture and study on lycopodium alkaloid biosynthesis
Amit Jaisi
- S1.P310 Biosynthesis of α -aminopyrones produced by the Marine-Derived Fungus *Aspergillus* sp. DLM38
Roberto Berlinck
- S1.P311 Plant tissue culture for production of bioactive metabolites in *Agrostemma githago* L.
Adam Matkowski
- S1.P312 Analysis of Host and Gut Microbial Biotransformation Products of Kratom (*Mitragyna speciosa*) by Mass Spectrometry
William Crandall
- S1.P313 Interactions with gut microbiota and bioavailability of natural products contained in lavender flowers
Diana Dolzhko
- S1.P314 Using banana peels in fermentation: upstream bioprocesses
Marcio Carochó

- S1.P315 **Waste to Wellness: Hypocholesterolemic Solutions from Mushroom Residues, Boosting Circular Economy**
Marcio Carcho
- S1.P316 **Bilateral interactions between human gut microbiota and xanthohumol**
Maciej Korczak
- S1.P317 **Engineering potential of the homologation pathway of L-phenylalanine and L-tyrosine**
Shogo Mori
- S1.P318 **Unraveling the Biosynthetic Pathway of Aorimycin: Insights from Gene Deletion Experiments**
Elena Bialas
- S1.P319 **Synthetic biology platform for production of novel anticancer agents**
Rongbin Wang
- S1.P320 **Symbiotic relation between Ammi visnaga and Rhizobium rhizogenes in Bioreactor Condition**
Onur Sinan Türkmen
- S1.P321 **Application of 1,2,4-triazolium in structural modification of natural products and their biological activity studies**
Epole Ntungwe
- S1.P322 **Biotransformation of bufadienolides from Drimia maritima and in silico biological studies**
Babalwa Tembeni
- S1.P323 **Diverse ketoreductases involved in tailoring of atypical angucyclines**
Aleksi Nuutila
- S1.P324 **CBD biotransformation potential of endophytic fungi from Cannabis sativa**
Christina Koufali
- S1.P325 **Structure and biosynthesis of hyellamide, a glycosylated N-acyltyrosine derivative, from the cyanobacterium Hyella patelloides LEGE 07179**
Pedro Leao
- S1.P326 **Transcriptome analysis of Triphyophyllum peltatum, a liana producing naphthylisoquinoline alkaloids**
Karin Fester
- S1.P327 **The Roots of Scorzonera kotschyi Boiss. a New Source for Unusual Dihydroisocoumarin and Saponin Derivatives**
Özlem Bahadır-Acikara
- S1.P328 **Genome-wide identification and characterization of two potential antiviral plant protein families (Major Latex Protein and Glycine-Rich Protein) in Chelidonium majus**
Robert Nawrot

Medicinal natural products: from bench to bedside

- S2.P1 Stellettin B inhibits VEGF-induced angiogenesis in human endothelial progenitor cells in vitro and in vivo
Shih-wei Wang
- S2.P2 Antidiarrheal coumarins from *Psydrax schimperianus* (A. Rich.) Bridson roots
Getahun Regasa
- S2.P3 Ethnopharmacological validation of antiproliferative and anti-inflammatory activities of four *Curcuma* species through chemical characterization and in-vitro studies
Swagat Mohanty
- S2.P4 In vitro and in silico study of protein tyrosine phosphatase 1B (PTP1B) inhibitory compounds from the leaves of *Cleistocalyx operculatus* (Myrtaceae)
Won Keun Oh
- S2.P5 Revival of a traditional Austrian wound healing preparation
Elisabeth Eichenauer
- S2.P6 Enhancing Product Stability by Microencapsulation of a nanoemulsion of Plant Extracts
Mary Foglio
- S2.P7 Homoisoflavonoids from the Hyacinthaceae for use against ocular angiogenesis
Hannah Jefford
- S2.P8 *Pistacia lentiscus*: a plant with multiple virtues for use in human medicine as palliative in the treatment of inflammatory-related disorders
Djebbar Atmani
- S2.P9 Evaluation of the effective dose of the aqueous root extract of *Sphenocentrum jollyanum* Pierre: Role as an antioxidant and phosphodiesterase inhibitor for erectile function
Olorunfemi Molehin
- S2.P10 Antiepileptic Effects of some medicinal plant hydrosols
Mohamad Norani
- S2.P11 Alisol B 23-acetate and Alisol A 24-acetate reverse MDR cancer via ATPase modulation and membrane fluidity enhancement
Yu-ning Teng
- S2.P12 The constituents and anti-inflammatory activity from *Murraya paniculata* var. *omphalocarpa* Hayata
Tian-shung Wu
- S2.P13 Exploring Chemical Composition and α -Glucosidase Inhibitory of *Nelumbo nucifera* Gaertn Seedpod
Pai Hsin Chen
- S2.P14 *Fragaria x ananassa* Duch aerial by-product activity against *Candida albicans*
Mary Foglio
- S2.P15 Integrated in vitro and in vivo antilithiatic efficacy of a synergistic herbal formulation, URO-5 and exploration of in silico guided mechanism of action
Ankita Misra
- S2.P16 Ashwagandha improves cognition and attenuates depressive-like behavior in an Alzheimer's disease mouse model
Nora Gray
- S2.P17 Chemical structure and bioactivities of a sulfated polysaccharide from precious medicinal fungi
Chia-chuan Chang
- S2.P18 Unlocking the therapeutic potential: Comparative analysis of tormentic acid and its ester in combating inflammation and oxidative stress
Mara Heckmann
- S2.P19 Anti-diarrheal activity of *Psidium guajava* extract and partitions in *Drosophila melanogaster*
Chengmei Liu

- S2.P20 The influence of growth conditions on the amount of active substances in *Mentha x piperita* L.
Asta Klimiene
- S2.P21 Inhalation – A promising administration route for anti-infectives from *Morus alba* root bark?
Sigrid Adelsberger
- S2.P22 Reporting of medical and health research – An assessment of studies on medicinal plant extracts and herbal medicines registered on PROSPERO
Banaz Jalil
- S2.P23 Anti-inflammatory and antioxidant effects of *Marrubium vulgare* L. herb extracts in human immune cells and blood plasma
Anna Magiera
- S2.P24 Antioxidant, anti-diabetic and anti-inflammatory potential of *Sorbus commixta* (Rosaceae) leaves in cellular, cell-free and human plasma models
Anna Magiera
- S2.P25 In vitro antioxidant capacity screening of *Piper auritum* extracts
Bertha Fenton
- S2.P26 Chemical constituents and antioxidant properties of *Verbesina montanoifolia* leaf extracts
Bertha Fenton
- S2.P27 Isolation and characterization of α -glucosidase inhibitors from *Ziziphora tenuior* using high performance counter-current chromatography
Nilooofar Zonoubi
- S2.P28 Triterpenoids and flavonoids of Corncockle – a (n´almost) forgotten weed and the (future) medicinal herb
Adam Matkowski
- S2.P29 Therapeutic effects of Menthacarín® and its individual components peppermint oil and caraway oil in an experimental colitis model
Sandra Christochowitz
- S2.P30 *Bryophyllum pinnatum* inhibits oxytocin and vasopressin signalling in myometrial cells
Leonie Zurfluh
- S2.P31 Didesmethylocaglamide Cytotoxic Activity in High Grade Serous Ovarian Cancer in Preclinical In Vitro and In Vivo Models
Elizabeth Kaweesa
- S2.P32 Isobavachalcone attenuates TNF- α -induced vascular inflammation in human umbilical vein endothelial cells
Sang Yoon Choi
- S2.P33 Synergistic Therapeutic Potential of Quercetin, Curcumin, and Berberine Combination in Triple Negative Breast Cancer: Insights from In Vitro Models
Chandra Prakash Prasad
- S2.P34 Quercetin aims at the HuR-signaling axis to impede the migration of Triple Negative Breast Cancer (TNBC): Association with metabolic processes
Chandra Prakash Prasad
- S2.P35 Biological activities of the polar and nonpolar extracts of Philippine Bamboo Species
Chona Gelani
- S2.P36 Terpenoids and polyphenols from *Carpesium cernuum* (Asteraceae) of European origin
Anna Stojakowska
- S2.P37 Diet-induced differences in gut microbiota determine the responder or non-responder of traditional herbal medicine
Kento Takayama
- S2.P38 Antioxidant activity and cell viability assay on L6 myotubes of different parts of *Mitragyna speciosa*
Supattra Limsuwanchote
- S2.P39 pH-dependent membrane permeabilisation through Saponins and how it can enhance endosomal escape
Fabian Bülow

- S2.P40 Cytotoxic potential of saponins and fruit extracts from two genotypes of *Sechium edule* (Cucurbitaceae)
Marcos Soto-Hernandez
- S2.P41 Studies in vitro and in vivo of anti-tumor activity of extracts derived from *Plukenetia volubilis* and *Moringa oleifera* in gastric tumors
Sara M. Robledo
- S2.P42 Differential modulatory effects of *Populus balsamifera* (Salicaceae) and *Pinus* Spp. (Pinaceae) hydroethanolic extracts on IL-6 and TNF production by activated human peripheral blood mononuclear cells
Aaron Donny-Clark
- S2.P43 Optimization of extraction conditions for Salidroside isolated from *Acer tegmentosum*
Gujjae Yoo
- S2.P44 *Eleutherococcus senticosus* fruits intract – no toxicity in a balb/c mouse model
Daniel Zaluski
- S2.P45 Potential molecular mechanisms of Silexan® identified by RNA-Sequencing in a mouse model of chronic social stress-induced excessive aversion sensitivity
Sabrina Weisenburger
- S2.P46 The *Urtica dioica* root extract component in WS®1541 diminishes parameters of epithelial mesenchymal transition in human benign hyperplastic prostate epithelial cells
Sabrina Weisenburger
- S2.P47 Antitumor activity of evodiamine analogs by targeting PKCβI in gemcitabine-resistant pancreatic cancer cells
Sang Kook Lee
- S2.P48 Perceived changes in anxiety symptom burden during treatment with *Bryophyllum pinnatum*: a prospective, non-randomised, observational study
Tiffany Huber
- S2.P49 Effects of orally applied sanggenons C and D in BALB/c mice
Ulrike Grienke
- S2.P50 Novel natural product inhibitors targeting oncogenic MAPK/ERK and PI3K/AKT signaling in melanoma: From large library screening to target identification
Maria Karpouchtsi
- S2.P51 Screening for natural products inhibiting PI3K/AKT pathways in melanoma: investigation of *Mammea americana* EtOAc extract
Ruzhe Han
- S2.P52 Exploring the Anti-Inflammatory Potential of an Herbal Mixture Preparation and Individual Herbal Extracts on Inflammatory Bowel Disease
Gerald Künstle
- S2.P53 Extracts of *Sisymbrium officinale* and *Plantago lanceolata* are effective in reducing bradykinin-induced increased intracellular Ca²⁺ levels in human bronchial epithelial cells
Olumayokun Olajide
- S2.P54 Extracts of *Sisymbrium officinalis* and *Plantago lanceolata* reduced Inflammation induced by lipoteichoic acid from *Streptococcus pyogenes* in human tonsil epithelial cells
Olumayokun Olajide
- S2.P55 Protein Kinase activity of Chromatographic fractions of *Acacia auriculiformis* stem bark as potentials for Anti-cancer drug discovery
Augustine Ahmadu
- S2.P56 Comparative Protein Kinase inhibitory activity of three *Acacia* species growing in Nigeria
Augustine Ahmadu
- S2.P57 Diversification of Kratom Alkaloids Using Biocatalysis for Opioid Use Disorders
Sahar Amin
- S2.P58 Study of *Carpesium abrotanoides* in dextran sulfate sodium-induced IBD and Caco-2 cells
Soyeon Kim

- S2.P59 **In vitro co-culture analysis of Caribbean medicinal plant extracts for bacterial vaginosis**
Ella Vardeman
- S2.P60 **Pharmacokinetics dynamics of the hybrid *Sechium H38707* and phytochemical characterization of its fruit**
Marcos Soto-Hernandez
- S2.P61 **Neolignans and diarylnonanoid derivatives from the seed of *Myristica fragrans* Houtt. and their cytotoxic activities against human ovarian cancer cell lines**
Jeong Ah Kim
- S2.P62 **The ameliorative effects of *Moschus* and its major compound L-muscone on traumatic brain injury mice model focusing on the mechanisms of action**
Jang-hoon Kim
- S2.P63 **Cycloartane-type triterpenoids from *Combretum quadrangulare* (Combretaceae) and their potential for the treatment of hypercholesterolemia**
Chae-yeong An
- S2.P64 **Bitter-tasting plant extracts stimulate mechanisms of gastric acid secretion of immortalized human parietal cells via TAS2Rs depending on their polyphenol content**
Phil Richter
- S2.P65 **Anti-inflammatory testing of some isolated sesquiterpene lactones and methoxylated flavonoids from *Achillea millefolium* L. in an ICAM-1 in vitro assay**
Carola Aumer
- S2.P66 **Evaluation of aromatase enzyme inhibition by extracts of *Bergenia crassifolia* (Saxifragaceae)**
Anna Nickl
- S2.P67 **Assessment of the Anticonvulsant Activity of *Myrica gale* L., a Traditional Irish Plant in Ethnoveterinary Medicine, using a 4-AP Induced Seizure, Electrophysiological Model, in vitro**
Gaia Scalabrino
- S2.P68 **Centrifugal Partition Chromatography as a tool for the isolation of polyphenols from ginger rhizomes**
Virginia Kukula-Koch
- S2.P69 **Comparative assessment of the antioxidant capacity of domat olive leaf and sari yaprak olive leaf**
Fatmagul Yoldas
- S2.P70 **Syringin accelerated wound healing and reduced inflammation in human skin fibroblastst and keratinocytes in vitro**
Andrzej Parzonko
- S2.P71 **Exploring the Impact of Different Heat Extraction Processes on the phytochemical profile of *Cichorium intybus* Extracts**
Maria-Riera Piqué-Borràs
- S2.P72 **Modulation of Gastric Motility by a Traditional Herbal Preparation in Functional Dyspepsia: Implications of Muscarinic Receptor Inhibition**
Maria-Riera Piqué-Borràs
- S2.P73 **In vitro liver metabolism of four biflavonoids and their corresponding monomers**
Nicole Herl
- S2.P74 **Screening of flavonoids and phenolic compounds in *Betula litwinowii* Doluch. by LC-Q-TOF/MS and determination of their antioxidant potential**
Buket Bozkurt
- S2.P75 **Extracts of *Capparis cartilaginea* Decne attenuate inflammasome activation in LPS-stimulated THP-1 macrophages**
Fabio Boylan
- S2.P76 ***Pistacia chinensis* Bunge subsp. *falcata* (Becc. ex Martelli) aqueous extract possesses acetylcholinesterase and monoamine oxidase inhibitory activities**
Fabio Boylan

- S2.P77 Cyclotides from Bolivian plants
Jose Ruiz
- S2.P78 Cytotoxicity Assessment of *Rosa pisiformis* (Christ) D. Sosn. Endemic to Turkiye
Esmâ Sultan Baykara
- S2.P79 Confirming (–)-epicatechin’s biological signature; universal modulation of NOS in chronic disease
Melissa Henckel
- S2.P80 Analytical development on *Pulsatilla* species: comparison of two species
Stéphanie Chanut
- S2.P81 Wound healing effects of *Arnica montana* formulations administered by different routes in mice
Pascal Trepât
- S2.P82 Effect of *Tormentilla* tinctura and its postbiotic metabolites on human intestinal epithelium cellular model
Aleksandra Kruk
- S2.P83 Protective effects of the Korean Herbal Prescription, Bojanguunbi-tang, on indomethacin--induced Small Bowel Injury focusing on mechanisms of action
Seogyeong Lee
- S2.P84 Interaction of an herbal multi-component medicine for treatment of digestive disorders with the growth of selected intestinal lactic acid bacteria
Johann Röhrl
- S2.P85 *Vangueria infausta* Burch (wild medlar) extract improves semen quality by regulating testosterone levels and oxidative stress in testicular Leydig cells
Adewale Oladipo
- S2.P86 Phytochemical, antioxidant, and androgenic effects of multi-solvent extracts from *Strychnos spinosa* Lam on mouse testicular TM3 Leydig cells
Jeremiah Unuofin
- S2.P87 Unlocking longevity through the use of plant adaptogens: lifespan extension by Maral root (*Rhaponticum carthamoides* (Willd.) Iljin) extract in *Caenorhabditis elegans*
Monika Todorova
- S2.P88 Revealing the veil of Barberry Alkaloids: High-Throughput non-targeted UHPLC-DIA-HRMS Profiling Enhanced by Solid Phase Extraction based on Mixed-Mode Sorbent
Štefan Kosturko
- S2.P89 *Viscum album* extracts in the perioperative oncological setting: evidence from bench to bedside
Florian Pelzer
- S2.P90 Potential benefits of *Malva sylvestris* in treating dry-eye pathology in vitro
Alexander Areesanan
- S2.P91 The relationship among essential oil composition, morphological and climatic diversification – the case of *Teucrium montanum* from the Balkan Peninsula
Mirjana Marčetić
- S2.P92 Salicylic alcohol content in the leaves of different *Salix* species and individuals: impact on pharmaceutical potential
Leonie Kayser
- S2.P93 Plant metabolites as glucose-induced insulin secretion modulators
Andrzej Patyra
- S2.P94 Antioxidative capacity of European tree bark extracts
Sissy Häsler Gunnarsdottir
- S2.P95 Exploring the potential of ADAPT-232: plant adaptogens for healthy aging, and longevity in *Caenorhabditis elegans*
Biser Binev
- S2.P96 *Harpagophytum procumbens* DC. ex Meisn. hairy roots extract alleviates inflammatory response in psoriasis dermatitis
Ivanka Koycheva

- S2.P97 Caloric restriction mimicking through NRF-2-mediated mechanisms by plant-derived bioactive leads
Liliya Mihaylova
- S2.P98 SKN1/NRF2-dependent modulation of nutrient sensing network in *Caenorhabditis elegans* upon curcumin treatment
Martina Savova
- S2.P99 The phenylethanoid glycoside forsythoside B as a promising candidate for photoprotective dermatological products
Iva Stoykova
- S2.P100 Exploring the therapeutic potential of *Punica granatum* leaves extract in enhancing healthspan and lifespan in *Caenorhabditis elegans*
Monika Todorova
- S2.P101 Baicalein, a major component of the root of *Oroxylum indicum* (Bignoniaceae) vasodilates isolated pulmonary arteries through endothelium-dependent and -independent mechanisms
Nattiya Chaichamnong
- S2.P102 Chemical profile and cytotoxic activity of methanol extracts of eight *Geranium L.* species
Milica Drobac
- S2.P103 The composition of the essential oil of *Pimpinella serbica* and its relationship to other *Pimpinella* species from the central part of Balkan Peninsula
Milica Drobac
- S2.P104 Different extracts of three *Veronica* species: the study of their antioxidant activity
Marija Nazlić
- S2.P105 Anti-inflammatory potential of chamomile flowers (*Matricariae flos*) extract in topical applications
Natalia Melnyk
- S2.P106 A comparative study on biological activities of different extracts of *Scrophularia xanthoglossa* Boiss
Damla Kırca
- S2.P107 Andrographolide as a potential anti-inflammatory molecule in prostate cancer
Magaly Martinez-Ferrer
- S2.P108 The impact on proinflammatory cytokines secretion by human neutrophils and keratinocytes by extracts from *Arctii lappae fol*, *Serpylli hba* and *Millefolii hba* – raw materials traditionally used in Poland in skin disorders
Agnieszka Bazylko
- S2.P109 Enhancing the Anticancer Activity of Oleandrin from *Nerium oleander L.* (Apocynaceae) through Novel Formulations
Çiğdem Bilgi
- S2.P110 Oral acute toxicity and preliminary phytochemical characterization of *Hyptis albidia*
Gabriela Ávila-Villarreal
- S2.P111 Ex vivo assessment of potential *Eucalyptus cinerea* antihypertensive
Daniela Yusbizareth Rodríguez Jiménez
- S2.P112 The anti-asthmatic effect of artichoke in BALB/c mouse model
Tae Jin Kang
- S2.P113 Antimicrobial activity and chemical composition of *Taraxacum alepicum* Dahlst. (Asteraceae)
Ebru Kuruldak
- S2.P114 The hydroethanolic extract from *Calendula officinalis L.* herba demonstrated potent anti-inflammatory properties in vitro
Johann Röhrl
- S2.P115 A study on the antiproliferative activity of the triterpenoid constituents in *Erica erigena*
Khadijah Jabal
- S2.P116 Cyclic Peptides Derived From Sunflower Trypsin Inhibitor 1 (SFTI-1) For Autoantibodies Neutralization In Rheumatoid Arthritis
Mingshu Zhang

- S2.P117 Detailed LC-MS analysis and evaluation of cytotoxic effects of various extracts obtained from aerial parts of *Glaucium acutidentatum* Hausskn. & Bornm.
Magdalena Maciejewska-Turska
- S2.P118 In vivo evaluation of the anti-inflammatory activity of the marine pigment echinochrome A on hairless mice skin
Stefanos Kikionis
- S2.P119 Anti-inflammatory effect of *Glaucium flavum* extracts
Sylvia Zielińska
- S2.P120 Alpha-glucosidase inhibitory profile of sesquiterpenes lactones from *Centaurea* species
Carmen Formisano
- S2.P121 Characteristic, Phytochemical Profiling and in vitro Biological Activities on *Myrtus communis* L.
Zeliha Parlak
- S2.P122 Dietary molecules from *Glycyrrhiza foetida* and their modulation on metabolic syndrome pathways
Elena Serino
- S2.P123 Smoking Hot – The Story of the “Pepper Bark Tree” *Warburgia salutaris*
Carmen Myrna Leonard
- S2.P124 The effect of cannabidiol, cannabidiol and cannabigerol on the motoric activity of the rat proximal colon – ex vivo study
Kijan Crowley
- S2.P125 Coumarin polypharmacology and elucidation of an underlying molecular mechanism of action
Felix Huwyler
- S2.P126 Deciphering the targets of trypanocidal chalcones in *Trypanosoma cruzi*
Kaushavi Anil Cholke
- S2.P127 Innovative methods for analysing flavonolignan complex from *Silybum marianum* L.
Gjoshe Stefkov
- S2.P128 Phytochemical Analysis of *Hyssopus officinalis* L. Cultivated in Western Turkey
Gulen Irem Kaya
- S2.P129 Enhancing Wound Healing: Sericin and Chelidonium Majus as Potential Dressings
Ricardo Calhelha
- S2.P130 Evaluating the Efficacy of Topical Application of *Genista Tridentata* (L.) Leaf Extract on Wound Healing in experimental Diabetes
Inês Laranjeira
- S2.P131 *Lepidium meyenii* – isolation of imidazole alkaloids by centrifugal partition chromatography
Dominik Tarabasz
- S2.P132 Connecting targets of the standardized herbal combination STW 5-II to gastrointestinal disorders
Gudrun Ulrich-Merzenich
- S2.P133 The anti-inflammatory and skin barrier function recovery effects of *Schisandra chinensis* in mice with atopic dermatitis
Hyungwoo Kim
- S2.P134 Comparison of amount of tannins in Ericaceae plants using different water extraction methods
Kristina Ložienė
- S2.P135 Biosynthetic relationship and self-assembly nanoparticles of royleanone isolated from *Plectranthus* species
Epole Ntungwe
- S2.P136 Yamogenin – a steroidal plant metabolite triggers extrinsic and intrinsic pathway of apoptosis in gastric cancer cells
Justyna Stefanowicz-Hajduk
- S2.P137 Phytochemical analysis and neuroprotective activity of extracts from *Paliurus spina-christi* (Rhamnaceae)
Nehir Unver Somer
- S2.P138 Bioactive molecules separation from *Acmella oleracea* (Jambu) from Amazon Florest
Elza Caroline Müller

- S2.P139 The protective impact of *Aronia melanocarpa* L. berries extract against cadmium-induced changes in the concentrations of calciotropic hormones in the serum
Michał Tomczyk
- S2.P140 LC-MS/MS analyses of triterpenes and polyphenols from less-polar fractions of *Rosa rugosa* leaf extract and their biological activity
Marta Olech
- S2.P141 Volatiles, triterpenes, phytosterols and anti-inflammatory activity of *Rhododendron luteum* Sweet (Ericaceae) supercritical CO₂ extracts
Lena Lyko
- S2.P142 Antioxidant and anti-inflammatory activity of the *Berberis vulgaris* L. bark extract
Lena Lyko
- S2.P143 The Use of Herbal Medicines for Gynecological Ailments: Patient-Reported Outcomes
Alexandra Drebka
- S2.P144 An Analysis of Real-World Data regarding Therapeutic Efficacy and Adverse Effects of Herbal Medicines in Mental Health Issues
Annika Johanna Scholl
- S2.P145 Antiproliferative activity of homolupane triterpenoids
Lucie Rarova
- S2.P146 Anticancer and antioxidant properties of extracts from *Rubus caesius* L. (Rosaceae)
Anna Hering
- S2.P147 Broad antiplatelet activity of flavones – zapotin, chrysin, and tropoflavin – in human platelet-rich plasma
Jakub Władysław Strawa
- S2.P148 Anti-Aging, anti-neurodegenerative and healthspan-promoting compounds from *Dendrobium officinale* Kamura et Migo (Orchidaceae)
Nkwachukwu Okoro
- S2.P149 Effects of STW 3-VI (St. John's wort) on the paracrine signaling between neurons and microglia under pro-inflammatory conditions in vitro
Marlon Palm
- S2.P150 Gut microbiota – a new aspect for understanding the antidepressant effects of *Hypericum perforatum*?
Maria-Eleni Grafakou
- S2.P151 The cytotoxic effect of chryso-splenetin, a natural product from *Artemisia annua*, investigated with different human cancer cell lines, as well as invitro CYP450 enzymatic activity in human liver microsomes
Gael Noel Neh Neba Ambe
- S2.P152 Bioprospecting for plant extracts with protective effects on endothelial function
Anca Miron
- S2.P153 A purified fraction from 70 % hydroethanol extract of whole herb of *Platostoma africanum* P. Beauv. (Lamiaceae) inhibited formation of β -haematin formation
Abiodun Adeyemi
- S2.P154 Studies of St. John's Wort (*Hypericum perforatum* L.) Dry Extracts: No hints on mutagenicity
Olaf Kelber
- S2.P155 Shortcutting Iridals to Irones Transformation in Orris Root: Unleashing the Potential of Microwave Drying for Rapid Iron Production
Mahdi Ayyari
- S2.P156 Didemethylcrocaglamide Cytotoxic Activity in High Grade Serous Ovarian Cancer in Preclinical In Vitro and In Vivo Models
Elizabeth Kaweesa
- S2.P157 The herbal preparation, STW 5, protects against changes in the microbiome in experimental functional dyspepsia
Mohamed T. Khayyal

- S2.P158 **Modulatory effects of Glycyrrhiza glabra L. on endocrinological shift in ovariectomy-induced menopausal mice: Network pharmacology guided in-vivo study**
Poonam Rawat
- S2.P159 **Ziziphus nummularia crude and fractionated extracts attenuate the malignant phenotype of human triple negative breast cancer cells**
Abdullah Shaito
- S2.P160 **Anti-inflammatory properties of jaboticaba peel bioactive compounds during in vitro gastrointestinal and colonic digestion**
Livia Reguengo
- S2.P161 **Improving Sleep Quality and Daytime Function with a Synergistic combination of Tryptophan, Magnesium, Lactuca, and Melissa: A Prospective Pilot Study in Adults with Sleep Disturbances**
Ramon Weishaupt
- S2.P162 **Harnessing gut microbiota through immunomodulation by LM-1 attenuate HDM-induced asthma**
Chuan Teng Liu
- S2.P163 **Ethnopharmacological study of the bark traditionally used for diabetes of Croton guatemalensis Lotsy: from the field to the action mechanisms**
Adolfo Andrade-Cetto
- S2.P164 **Ethnopharmacological study of Eryngium cymosum F.Delaroche, a Mexican species traditionally used for the treatment of diabetes**
Adolfo Andrade-Cetto
- S2.P165 **Onychocolone A produced by the fungus Onychocola sp. targets cancer stem cells and stops pancreatic cancer progression by inhibiting MEK2-dependent cell signaling**
Rosario Fernández-Godino
- S2.P166 **Human Prolyl Endopeptidase Inhibitory Activity of the Peptide Enriched Extracts of Momordica charantia (Cucurbitaceae) Fruits**
Augustine Mbanu
- S2.P167 **Impact of phytocannabinoids THC, CBD and their acidic counterparts THCA and CBDA on TGF- β 1-induced epithelial-mesenchymal transition in human conjunctival epithelial cells**
Anil Baskan
- S2.P168 **Development of immunopharmacognostic interventions to potentiate tumor recognition in prostate cancer**
Hui-ming Chen
- S2.P169 **Investigating the Anti-Inflammatory Effects of a TCM Formulation Used for the Prevention of Rheumatoid Arthritis**
Luke Robertson
- S2.P170 **Biological potential of endophytes from liverwort Marchantia polymorpha L.**
Agnieszka Ludwiczuk

Natural product research and the challenges of climate change – ecological and environmental solutions

- S2.P171 **Small Molecule Metallophores from Bacteria, Adaptation and Isolation Strategies**
Paul Boudreau
- S2.P172 **Exploring Tuscany onion (Allium cepa L.) heritage: unveiling ancient varieties through molecular network analysis and bioinformatic tools**
Emily Cioni
- S2.P173 **Extraction of Cannabis sativa: subcritical water vs. supercritical CO₂ and organic solvents**
Katja Schoss
- S2.P174 **Response surface methodology guided RP-HPLC-PDA method optimization for the quantification of multi-analytes (six) in Indian kudzu and its greenness assessment**
Mridul Kant Chuadhary

- S2.P175 Development and validation of RP-HPLC method for estimation of anti-oomycete diterpenoids in *Larix decidua* extracts
Linda Langat
- S2.P176 Eutectic solvents as a sustainable solution for the recovery of high value free fatty acids from microalgal co-products
Leslie Boudesocque-Delaye
- S2.P177 EKO-YAM – Investigating Dioscorea for a sustainable future
David Krüger
- S2.P178 Wound healing and antimicrobial activity of European tree bark extracts
Sabrina Vorderegger
- S2.P179 An ethnobotanical survey investigating traditional remedies to treat infectious diseases in French Polynesia
Doriane Tilton
- S2.P180 Water as a green solvent to extract polar and non-polar plant pigments
Marine Chambaud
- S2.P181 Long term experiments on applying a Pulsed Electric Field (PEF) to living plant roots in order to extract flavonoids in *S. baicalensis* Georgi model
Kajetan Grzelka
- S2.P182 Enhancing fire ant bait selectivity: Synthesis and evaluation of feeding deterrent activity of fire ant venom alkaloids and their analogs against invasive fire ants and native ants
Dhammika Nanayakkara
- S2.P183 Sacrosephenylpropanoid esters and isoflavonoids from *Belamcanda chinensis* (Iridaceae) roots and their potential anti-osteoclastogenic activity
Byung Sun Min
- S2.P184 PTP1B inhibitory activity of serratene-type triterpenoids from *Lycopodium serratum* (Lycopodiaceae)
Byung Sun Min
- S2.P185 Introducing NaDES-based biphasic solvent families inspired by the Arizona family: a new approach for the sustainable use of centrifugal partition chromatography
Ramla Sahlí
- S2.P186 Beyond the Tuber: Crafting High-Value Molecules from Potato Residues
Nina Stadler
- S2.P187 Mulberry cell cultures: a promising source for health care
Vanessa Dalla Costa
- S2.P188 Spatio temporal dynamics of favourable habitats for *Terminalia leiocarpa*, a traditional plant used in ethnoveterinary medicine in Benin (West Africa)
Joëlle Quetin-Leclercq
- S2.P189 From the production of targeted metabolites to the complete valorization of *Coleus forskohlii* Briq. using aeroponic cultivation
Audrey Le Cabec
- S2.P190 ViscY NMR experiments combined with chiral discrimination for complex mixture analysis
Anthony Budai
- S2.P191 A green approach for preparing alkaloid-rich extracts and fractions
Cristiano Funari
- S2.P192 Optimization of a green method for quantifying harmine in *Banisteriopsis caapi* stems used in the preparation of ayahuasca
Cristiano Funari
- S2.P193 Nutrient density and mineral content of radishes grown in black soldier fly frass-enriched compost
Laura Bystrom

- S2.P194 Myristoleic acid ameliorates the inhibition of rat dermal papilla cell growth by fine particulate matter via the activation of autophagy and Wnt/ β -catenin pathways
Youn Kyung Choi
- S2.P195 Identification of phenolic compounds in three Veronica species: Veronica anagallis-aquatica L., Veronica persica L. and Veronica polita L.
Ivana Vrca
- S2.P196 Turning the Tide: Harnessing the Invasive algae Rugulopterix okamurae for Commercial Applications
Luísa Custódio
- S2.P197 Scale-up production of g-mangostin using Centrifugal Partition Chromatography
Anne-Marie Le Ray
- S2.P198 In vitro callus culture of Mespilus germanica to improve the production of bioactive compounds from a forgotten fruit
Valentina Parisi
- S2.P199 The phytochemical diversity of wild hops from northern France for potential brewing application
Augustin Bildstein
- S2.P200 Effect of the aquaponic system on productivity and quality of Acmella oleracea R.K. Jansen
Marta Ferrati
- S2.P201 Comparison of free volatile compounds of wild and cultivated species Veronica catenata Pannell
Valerija Dunkić
- S2.P202 Urban Parks Biowaste as a Sustainable Source of New Antidiabetics
Marijana Zovko Končić
- S2.P203 Unravelling the secrets of fungicides through actinobacteria-phytopathogen interactions
Kah Yean Lum
- S2.P204 The involvement of cyclotides in plant response to heavy metals in Viola spp.
Błażej Ślęzak
- S2.P205 Applying the Global Nature Products Social Molecular Networking (GNPS) platform to identify natural products involved in tolerance to heavy metals in Viola spp.
Katarzyna Karpierz
- S2.P206 Screening plant extract for biological activity. A work spanning 60° Latitude South
Ivana Suffredini
- S2.P207 Polyphenol and anthocyanin content in early producing maqui hybrids (Aristotelia chilensis)
Hermine Vogel
- S2.P208 Effect of different ethylene levels on other phytohormones and Arabidopsis resilience
Mersa Darbandsari
- S2.P209 Copper-induced siderophore production and copper complex formation in vitamin-producing bacteria at a Vermont copper mine
Lesley-Ann Giddings
- S2.P210 Disentangling metabolite dynamics in extreme environments: life detection strategies for extraterrestrial worlds
Jill Mikucki
- S2.P211 Effect of green-based extraction approaches on antioxidant activity and phenolic compounds of Oregano (Origanum vulgare subsp. hirtum)
Paschalina Chatzopoulou
- S2.P212 Enhancing polyphenol production in Cistus albidus L. through strategic mycorrhization and irrigation management: An off-season approach
Daniel Raus de Baviera
- S2.P213 The potential of chitosan from Hermetia illucens as a sustainable biopesticide
Joanita Nangobi
- S2.P214 Screening of Nettle Clones with the Ph Eur HPTLC method for identification testing
Evelyn Wolfram

S2.P215 Creation of a Medicinal Plants Collection and Research Consortium to Catalyze Drug Discovery in San Diego and Beyond: An Update from 2022-2024

C. Benjamin Naman

Regulation for the use of natural products in food and drugs

S2.P216 The Cannabis/Marijuana (*Cannabis sativa* L.) Landscape in Africa: An Overview of its Cultivation & Legal Aspects

Godwin Anywar

S2.P217 A comparative toxicity study depending on type of clinical use of the roots of *Asarum heterotropoides* var. *mandshuricum* F. Maekawa

Kang-hyun Han

S2.P218 Determination of triterpenoids of the native *Centella asiatica* L. from the Jeju Island, Korea

Jaehee Hyun

S2.P219 Streoselective inhibitory effects of ginsenosides on six uridine 5'-diphosphoglucuronosyl transferases in human liver microsomes

Bae-gon Kang

S2.P220 Discrimination of herbal medicines originated from Soy beans (*Glycine max* Merr.) using High-Performance Thin-Layer Chromatography

Yena Kim

S2.P221 Analytical Quality by Design (AQbD) methodology approach for simultaneous quantification of Hesperidin and Magnolol in *Daekumeum-ja* using HPLC-PDA

Kyung Ho Lee

S2.P222 Discrimination Between Similar Herbal Medicines of Campanulaceae by High-Performance Thin Layer Chromatography (HPLTC)

Wonsok Ha

S2.P223 Quantification of saponin-rich plants mixture in complete feed with UHPLC-MS/MS using a "one-point" calibration

Maxime Le Bot

S2.P224 Interactions of Ivy (*Hedera helix*) with Other Herbs or Medicines: A Systematic Review

Bader Alsuliman

S2.P225 Brazilian Regulation for food supplements containing bioactive substances from plant extracts

Andressa Blainski

S2.P226 Chemical profile of natural musk (*moschus*) by GC-MS/MS

Seongmi Lee

S2.P227 Advances in the Brazilian Regulation for the use of plant extracts in medicines

Eliana Martino Bufaino

S2.P228 Comparing the volatolome of Spanish-style and natural cv. Chalkidiki green table olives at industrial scale

Alexandros Nakas

S2.P229 Addressing Regulatory Challenges and Ensuring Safety in the e-commerce of Herbal Remedies in Mexico

José-Luis Echevarría-Becerra

S2.P230 Questions for consumer reporting on risks and benefits from herbal medicine usage: A preliminary international Delphi study

Chuenjid Kongkaew

S2.P231 Analysis of the chromatographic profile and in vitro antiurolytic activity of species of the genus *Phyllanthus* L. (*Phyllanthaceae*), endemic and non-endemic of the flora of Santa Catarina

Adrielli Tenfen

S2.P232 Hot chips – is it a real 'challenge'?

Zuzana Binova

- S2.P233 Botanical Adventure in Pharmacy Education: Implementing an Escape Game for Quality Control Training
Allison Ledoux
- S2.P234 Call for a contextual reform of the regulations on traditional herbal medicine in Burkina Faso
Kampadilemba Ouoba
- S2.P235 The In Vitro Modulatory Effects of *Artemisia sieberi* on Phase-I Cytochrome P-450 Isoenzyme Gene Expression Using Human Hepatoma Cells (HepG2)
Zeyad Alehaideb
- S2.P236 Comparison of qNMR and HPLC-UV Techniques for Quantitation of Secoiridoid Phenolics in Olive Oil
Nikoleta Anna Madelou
- S2.P237 Anticancer efficacy of Korean medicine and sorafenib (concomitant drug) for hepatic tumors
Seang Soo Roh
- S2.P238 *Erythrina* spp. as natural anti-inflammatory ingredients for cosmeceuticals: An in-silico study
Natalia Blicharska

Medicinal Plants and Natural Products in Animal Healthcare and Veterinary Medicine

- S2.P239 Chemical composition of resin extract from *Corymbia* spp. an indigenous Australian native plant
Andres Ruiz
- S2.P240 *Melissa officinalis* extract to promote calming effect before stressful events
Fatima Aberkane
- S2.P241 Equine Stromal Cells: effects of non-ribosomal peptides on proliferation and viability
Kalindi Morgan
- S2.P242 Extracts from the roots of *Scutellaria baicalensis* reduce honeybee death caused by nosemosis
Daniel Zaluski
- S2.P243 Larch (*Larix decidua* L.) fibre waste: characterization of a functional feed ingredient
Doriana Eurosia Angela Tedesco
- S2.P244 Identification of Novel Caffeoyl- and Feruloyl-Derivatives in *Solanum glaucophyllum*
Sabrina Autzen
- S2.P245 Phytochemical screening and study of the hypotensive effect of the aqueous extract of *Rubus ulmifolius* Schott leaves
Afaf Mehioi
- S2.P246 Evaluating the antibacterial properties of macroalgae against swine pathogens
Peter O'Hara
- S2.P247 A survey-based study on knowledge, attitude, and perception of pet owners towards the use of plant extracts from bio-refinery in pet food formulations
Talal Hassan
- S2.P248 Anti-inflammatory effects of Cinnamon essential oil assessed on diverse cell models
Gardan-salmon Delphine
- S2.P249 Induction of apoptosis in pancreatic cancer cells by *Albizia julibrissin* extract through inhibition of an oncogenic signaling pathway.
Ji Su Han
- S2.P250 Antibacterial, antibiofilm and quorum sensing inhibitory activities of fractions of the ethanol extract of *Searsia lancea* against pathogens causing bovine mastitis
Lyndy McCaw
- S2.P251 Potential use of *Paulownia* leaves as feed additive to enhance animal health condition
Marta Mendel
- S2.P252 Exploring Ethnoveterinary Medicine in Dogs in Ireland, Norway and Poland
Marta Mendel

- S2.P253 Polish Perspective on Phytotherapeutic Approaches to Pet Anxiety: An Analysis of Popular Preparations
Joanna Polak
- S2.P254 Anti-tumor effects of *Auricularia polytricha* extracts on human breast cancer cell lines
Siriporn Chuchawankul
- S2.P255 Analysis of veterinary historical German-language textbooks regarding medicinal plants used for the treatment of gynecological diseases and fertility disorders
Michael Walkenhorst
- S2.P256 Phyto-synergy: A Holistic Approach to Tackle Paratuberculosis
Varsha Srivastava
- S2.P257 Preliminary study of the neuroprotective capacity of *Corema album* (L.) D. Don ex Steud (Ericaceae) juice and its butanolic fraction
Nuria Acero
- S2.P258 Anti-inflammatory and antioxidant ability of *Vitis vinifera* L. leaves
Nuria Acero
- S2.P259 Pre- and post- treatment effect of water-soluble phenolics from date palm (*Phoenix dactylifera* L) fruits in cisplatin-induced hepatotoxicity in rats
Omowumi Adewale
- S2.P260 Determination of anticancer properties of *Moringa oleifera* seed bioactive fraction and the interaction effect of its combination with the classical cytotoxic drugs
Omowumi Adewale
- S2.P261 Fertility parameters of dairy cows after intrauterine treatment of clinical endometritis with an antibiotic or an herbal veterinary medicinal product
Michael Walkenhorst
- S2.P262 Medicinal plants for animal health care: Translating tradition into modern veterinary medicine - The COST Action MedPlants4Vet
Marta Mendel
- S2.P263 Effectiveness of replacing antibiotics with botanicals in the treatment of bovine mastitis
Marcela Speranda
- S2.P264 Pumpkin seed cake waste as a sustainable functional feed ingredient
Doriana Eurosia Angela Tedesco
- S1.P265 Herbal Bioenhancers: An Example of Inhibition of ABCB1 Using *Brugmansia* Tincture
Begum Yurdakok-Dikmen
- S1.P266 Antibacterial activity of essential oils against streptococci and staphylococci causing bovine mastitis
Alice Caneschi
- S1.P267 Absorption, distribution, accumulation and excretion of thymol after its sustained administration in rabbits
Kristina Bacova
- S1.P268 In-vitro investigation of the gastroprotective effects of a natural extract blend: a promising avenue for canine gastritis prevention
Maria Teresa Capucchio
- S1.P269 Acaricidal activity of essential oil of *Satureja montana* L. against *Dermanyssus gallinae* in vitro conditions
Radomir Ratajac
- S1.P270 A novel phyto-genic supplement that prevents coccidiosis in chickens
Lie-fen Shyur

Cutting edge technologies in natural product drug discovery, formulation and development

- S3.P1 In Silico investigation of *Pterocarpus marsupium* against type-2 diabetes mellitus through network pharmacology approach
Munish Garg
- S3.P2 Integration of High-Throughput Screening, AI-ML Strategies, and ECD/DP4+ for the Discovery and Elucidation of Novel Natural Products
Ashootosh Tripathi
- S3.P3 On-tissue derivatization and MALDI-MS Imaging reveal hemlock alkaloid distribution in *Conium maculatum*
Diana Astrid Barrera Adame
- S3.P4 New World and Old World *Salvia* species (sages): Searching of Diterpenoids with Cytotoxic Activity
Diana Pérez Juanchi
- S3.P5 Use of *Galleria* moth larvae model to assess the pathogenesis of AIEC and the therapeutic potential of Geraniol as an antibacterial agent
Ryath Al-Hemedawi
- S3.P6 Inhibition of transforming growth factor β signaling by prodigiosin through disruption of receptor recycling and subcellular translocation in epithelial cells
Chun-lin Chen
- S3.P7 Assessing intra- and inter- variability of Macedonian wild-types and commercial Cannabis strains using STR markers
Veronika Stoilkovska Gjorgjevska
- S3.P8 Preclinical development of natural products into agents for pediatric brain cancers
Evgenia Glukhov
- S3.P9 Exploring the anti-mycobacterial potential of French Guiana's flora through a metabolomic study
Célia Breaud
- S3.P10 *Arnica* of Provence: an alternative to *Arnica montana*? Investigations about polyphenolic composition and antioxidant potential
Clémentine Achard-Baccati
- S3.P11 Biosynthesis of anti-inflammatory compounds from *Calendula officinalis*
Daria Golubova
- S3.P12 Development and validation of an analytical method for the analysis of standardized red propolis extract and its chemopreventive effect against colon carcinogenesis
Sergio Ambrosio
- S3.P13 Extract rich in polyprenylated benzophenones from Brazilian red propolis: obtaining, analytical characterization and in vitro evaluation against breast cancer lines
Rodrigo Veneziani
- S3.P14 Computational NMR Enhances Metabolomic Analysis and Sustainability
Matthias Niemitz
- S3.P15 Exploring on the Networking of Chemical Compositions and their Cytotoxicity toward KBCC *Nepenthes* Plants
Szu-yin Yu
- S3.P16 Chemical Composition and Bioactivity of *Uvaria micrantha* from Vietnam
Fang-rong Chang
- S3.P17 Ontology Based Ethnobotany Data to Support Natural Product-based Drug Discovery – Growth of Data, Large-Scale Insights and Case Studies
Vijay Ingalalli

- S3.P18 Optimization Formulation of *Rhodiola rosea* L. Nanoemulsion Containing Natural Oil Using Response Surface Method (RSM): Preparation, Characterization, Stability Test and Antioxidant Activity
Benni Iskandar
- S3.P19 Oxidoreductase FSP1-mediated redox-regenerating natural product E18C6 potently suppresses ferroptotic cell death
Minh Bui Hoang
- S3.P20 Chinese Traditional Medicine for Prevents Hair Loss in Androgenic Alopecia Mice
Ching-peng Wei
- S3.P21 Qualitative and semi-quantitative screening of triterpenes in *Vaccinium uliginosum* L. fruits using supercritical fluid chromatography
Zuzana Vaneková
- S3.P22 Matrix free laser desorption ion mobility mass spectrometry in chemometrics: A new approach to the rapid identification of activity markers in complex mixtures of natural products
Andreas Schinkovitz
- S3.P23 Metabolomic study of tea tree oil and *Melaleuca* spp. using HPTLC, LC-MS and GC-MS
Yi Zhao
- S3.P24 Preclinical evaluation of oral nanoformulation based on natural extract as a potential treatment for type 2 diabetes mellitus
Norman Balcazar
- S3.P25 Employing Plant-Bacterial Interactions to Access the Metabolic Capacity of Bacteroidetes
Barbara Adaikpoh
- S3.P26 *Epilobii herba*: Quality assessment using chromatographic techniques
Olha Mykhailenko
- S3.P27 Phytochemical analysis and quality control study of *Dendrobium fimbriatum* Hook. Flowers
Anham Abbasi
- S3.P28 Identification of chemical defenses of a tropical tree *Sextonia rubra* using molecular networks from GC-MS, LC-MS/MS and MALDI-MS/MS imaging data
David Touboul
- S3.P29 An Ethnobotanical, Pharmacological and Phytochemical Review on Flowers of Shi-hu (*Dendrobium* spp.)
Anham Abbasi
- S3.P30 Study of medicinal plants use among patients of the urology service of Ibn-Sina hospital in Rabat, Morocco, Ethnobotanical, Epidemiological and Toxicological aspects/ Phytovigilance
Khadija Dabra
- S3.P31 Unveiling the Multifaceted Efficacy of Gu Sui Bu in Osteoporosis Treatment: Insights from a Zebrafish Model and Advanced Analytical Approaches
Ming-der Lin
- S3.P32 Phytochemical profiling and the wound healing potential of five Bulbine species using in vitro and in vivo assays
Ramoagi Segone
- S3.P33 Translating community-wide mass spectral libraries into actionable chemical knowledge: A proof of concept with monoterpene indole alkaloids
Sarah Szwarc
- S3.P34 Non-targeted Profiling Analysis by GC/MS and LC/MS/MS of extracts derived from *Eucalyptus tereticornis* with antiobesogenic and antidiabetic activity
Norman Balcazar
- S3.P35 Design, synthesis and screening of novel prenylated chalcones as optimised anti-cancer agents
Mouna Hind Laiche
- S3.P36 Does the combined effect of natural abietane diterpenes with temozolomide have therapeutic potential against glioblastoma?
Mário Marques

- S3.P37 Assay-directed method development for natural product purification
Jack Silver
- S3.P38 Comparative analysis of the anti-inflammatory properties of nanoparticles derived from the medicinal plants *Zingiber officinale* (Ginger) and *Caralluma edulis* (Chunga), in the treatment of Inflammatory Bowel Disease
Abayomi Yusuf
- S3.P39 Isolation, characterization, and bioactivity of compounds from the stem bark of *Prunus africana*
Jennifer Namboze
- S3.P40 Lanostane triterpenoids of *Inonotus obliquus* are modulators of inflammation regulators ROR γ and GPBAR1
Benjamin Kirchweger
- S3.P41 COSMO-RS as cutting-edge technology for design and pre-screening of Natural Deep Eutectic Solvents for selective extraction: *Spirulina* as case study
Mervé Yagmur
- S3.P42 Tetrahydrofuran sesquiterpenes and the bronchodilator effect of *Artemisia judaica*
Ali ElCamal
- S3.P43 Development of non-targeted metabolomic approaches for the screening of bioactive molecules in *Clematis* species
Audrey Le Cabec
- S3.P44 Semisynthetic pyrazole ring containing hydrocurcumin derivatives as potential new antitumor agents
Gábor Girst
- S3.P45 Studies on the angiotensin converting enzyme inhibitory constituents in *Allium chinense* G. Don
Yun Sheng Lin
- S3.P46 A Decision Theory-based aggregation tool for tandem mass spectrometry multi-annotation outputs
M. Yassine Meiri
- S3.P47 Plectranthus: An Important Source of Bioactive Diterpenoids for Therapeutic Applications
Patrícia Rijo
- S3.P48 Characterization of volatile and non-volatile compounds in *Larix decidua* (Pinaceae) oleoresin and its nanoemulsion development
João Vitor Da Costa Batista
- S3.P49 In vitro antihypertensive effects of *Viscum album* mother tinctures in kidney proximal tubule cells
Carla Holandino
- S3.P50 ^1H NMR-based Metabolomics on 30 East Asian Traditional Herbal Medicines for Quality Control
Eunah Jeong
- S3.P51 Unveiling Terpenoid Diversity in *Sideritis* spp. through Molecular Networks
Corinna Urmann
- S3.P52 Targeted discovery of sesquiterpene indole alkaloids from Gabonese *Greenwayodendron suaveolens*
Rany Berty Mbeng Obame
- S3.P53 The benefit of classification machine learning in virtual drug discovery for beta-lactamase inhibitors identification based on an in-house library
Thanet Pitakbut
- S3.P54 A bioactive chlorophyll-derived yellow phyllobilin from senescent leaves of *Carica papaya* (Caricaceae) and its potential role in the ethnopharmacological use of withered leaf extracts
Christian Elvert
- S3.P55 Evaluating the use of Raman spectroscopy for the characterization of essential oils by direct measurement on the oregano leaf glands
Andreana Assimopoulou
- S3.P56 New Benzothiazines with Pain-Relieving Activity from Marine Bacterium *Croceibacter atlanticus*
Erin Marshall

- S3.P57 3D printed polymeric scaffolds loaded with antibiotic and anti-inflammatory drugs for tissue engineering applications
Andreana Assimopoulou
- S3.P58 ChromAnnot – a webserver for reproducible LC-HRMS/MS chromatogram annotation
Samuel Bertrand
- S3.P59 Exploring the anticancer potential of *Polygonum barbatum* (L.) against colorectal cancer: In vitro and in vivo investigations
Shih-yu Lee
- S3.P60 Physical interactions between *Streptomyces* (Streptomycetaceae) and competing microbes trigger the production of natural products
Heli Tirkkonen
- S3.P61 Energy Saving Efficacy and Optimized Condition of Pulse Energy Fields Technology on *Centella asiatica* extraction
Na Young Lee
- S3.P62 Identification of a Leoligin-inspired synthetic ligan as a novel TGR5 agonist
Alexander Perhal
- S3.P63 Nano-phytosome delivery system loaded with *Crataegus laciniata* (Rosaceae) Flowers extract: whitening properties
Shiva Pouramin Arabi
- S3.P64 Leoligin derivatives as novel Phosphodiesterase 4 inhibitors
Christine Coffey
- S3.P65 The search for nontraditional synergy: pairing in vitro omics and in silico machine learning methods to discover novel combinations of antimicrobial agents from natural products
Katherine Lev
- S3.P66 Electron diffraction-guided natural product discovery: identification and isolation of new scaffold class from *Podospora australis*
David Delgadillo
- S3.P67 Metaboseek 2.0: Deconvoluting the complexity of MS/MS Big Data through interactive data processing
Alexandros Polyzois
- S3.P68 Cytotoxic activities of terpenoids from genera *Euphorbia rowlandii* and *Euphorbia grandicornis* (Euphorbiaceae) against the Triple-negative breast cancer (TNBC)
Jacqueline Tembu
- S3.P69 Simultaneous extraction and synthesis of new cannabinoid acid esters and their evaluation on TRPA1, cell proliferation and in MDA-MB-231 xenograft model of cancer
Evangelos Dadiotis
- S3.P70 Exploring Potential Breast and Melanoma Cancer Drug Candidates from *Crocus sativus*: Molecular Docking Insights
Olha Mykhailenko
- S3.P71 Metabolic fate of Oleocanthal and Oleacein after oral consumption: Novel biomarkers, human bioactivity insights and TRPA1 channel activation
Nikoleta Anna Madelou
- S3.P72 An innovative methodology for the production of a new food supplement enriched in Oleocanthal and Oleacein with multi target protective properties
Prokopios Magiatis
- S3.P73 Online dried spot LC-Orbitrap analysis for the quality assessment of cannabis products
Varvara Papaioannou
- S3.P74 Anti-prostatic effects of *V. album* L extracts are influenced by season and the use of hydrogel delivery system
Carla Holandino

- S3.P75 A "head-to-tail" approach towards foodomics advancement: LC-HRMS and NMR correlation in the case of olive products
Stavros Beteinakis
- S3.P76 Systematic Cheminformatics Analysis of Herbal Plants in Malawi: Uncovering Chemical Scaffolds with Anticandidal Potential
King Bwaila
- S3.P77 From Nature's Palette to Drug Candidates: Exploring the Chemodiversity of Piper fimbriatum and Expanding the Bioactive Potential for the Development of Novel Drug Leads
Milana Perković
- S3.P78 Inhibition of Autotaxin by Quercetin and its derivatives
Nam-hui Yim
- S3.P79 Exploring vibrational spectroscopic approaches for quantifying main phytocannabinoids in medicinal Cannabis sativa inflorescence
Olga Gigopulu
- S3.P80 Exploring the Therapeutic Synergy: Comprehensive Assays Unveil the Potential of Sericin and Chelidonium Majus L. in Developing a Possible Wound Dressing
Sandrina A. Heleno
- S3.P81 Synergistic Impact of Natural Stilbene-Linked Mono-substituted Nitroarenes in Hormone-dependent Breast Cancer: A Greener Approach
Lairikyengbam Deepti Roy
- S3.P82 The natural diversity of acyltransferases reveals versatility and specificity in the synthesis of gene-encoded lipopeptides
Johannes Eckert
- S3.P83 Exploring New Dimensions: Analytical Method Development for Enhanced Quality Control of Natural Products
Justine Raeber
- S3.P84 Simultaneous Quantification of Terpenes and Cannabinoids in Cannabis Sativa by Reversed Phase LC-APCI-MS/MS
Justine Raeber
- S3.P85 LumiNose: A novel instrument to apply the receptomics biosensor technology for identifying and quantifying medicinal bioactivities in plant extracts
Lorenzo Corsico
- S3.P86 pH-Dependent degradation of andrographolide; kinetics, product identification and anti-inflammatory and cytotoxic activity assessment
Wuttichai Jaidee
- S3.P87 Immunohistochemical evaluation of the effect of Kigelia africana stem-bark extracts on benign prostatic hyperplasia induced by testosterone and estradiol in albino Wistar rats
Godwin Mbaka
- S3.P88 Styryl lactone derivatives and aristolactam alkaloids from Goniolothalamus tapis Miq. and their α -glucosidase inhibitory activity
Piyaporn Phukhatmuen
- S3.P89 Exploring synergies between hemp cannabinoids and β -caryophyllene on triple-negative breast cancer cell line
Carla Hamann
- S3.P90 Response Surface Methodology as a tool to obtain a potential satiating bitter enriched extract from Gentiana lutea L.
Vittorio Carlucci
- S3.P91 The Botanical Safety Consortium: Collaborative Effort to Improve Botanical Safety Methods
Connie Mitchell
- S3.P92 Natural digestion mimicking curcuminoid formulation enhances oral bioavailability of curcuminoids
Johannes-Paul Fladerer

- S3.P93 Reveal the structure of plants by X-ray Imaging and biomedical Beamline at SSRF
Guohao Du
- S3.P94 A cyclodextrin based tertiary complex of curcuminoids to improve bioavailability -its basic characteristics and immunomodulatory properties
Rawiwan Charoensub
- S3.P95 Phytochemical Analysis of Artichoke (*Cynara scolymus*) Herb: Implications for in vitro Neuroprotective and Anti-Obesity Potential
Przemyslaw Zalewski
- S3.P96 A preliminary study investigating the wound healing potential of *Cedrus brevifolia* extracts in mice
Helen Skaltsa
- S3.P97 Preformulation Studies of Lycopene-Rich Tomato Extract
Przemyslaw Zalewski
- S3.P98 Investigating the mechanism of action of the anti-aging ability of Geraniin nano-phytosome
Usha Sundralingam
- S3.P99 QbD approach for the development of CBD-loaded polymeric micelles for oral delivery
Lucia Grifoni
- S3.P100 Native Metabolomics for the Discovery of New Small Molecule Gαi protein Modulators
Amira Naimi
- S3.P101 NMR-HetCA uncovers bioactive secondary metabolites from propolis extracts prior to isolation
Nektarios Aligiannis
- S3.P102 Discovery of new bioactive compounds: cloning, activation and engineering of specialized metabolites biosynthetic gene clusters
Iryna Ostash
- S3.P103 *Origanum Dictamnus* infusion characterization by HPLC-PDA-MS and nanoformulation development
Giulia Vanti
- S3.P104 Extract from the seedlings of *Brassica oleracea* var. *Italica* (Brassicaceae) reduces tissue damage and alters inflammatory markers over time: development of new medications
Katherine Warpeha
- S3.P105 Identification of Naturally-derived lipids as GPR84 Agonists
Listiana Oktavia
- S3.P106 Quantitative analysis of endogenous steroids by UHPLC-MS/MS in various medicinal plant species
Jana Oklestkova
- S3.P107 Enhancing Drug Discovery Efficiency in Plant Extracts through Polyphenol Removal
Christina Davidson
- S3.P108 Bioactive *Lycopodium* alkaloids from clubmoss cultivars and transformation to enhance anti-acetylcholinesterase activity
Nopporn Thasana
- S3.P109 Depicting the Chemical Diversity of Bioactive Meroterpenoids Produced by the Largest Organism on Earth
Marc Stadler
- S3.P110 Comparative in vitro Enzyme Inhibitory Activities of Different Plant Parts of Five *Albizia* Species (Leguminosae)
Abdullahi Adeyemi Adegoke
- S3.P111 Study and Nutritional Screening of Some Botanicals used as Herbal Remedies in Managing Eye and Ear Ailments in Ado-Odo Ota Local Government Areas, Ogun State
Abdullahi Adeyemi Adegoke
- S3.P112 New data about chemical composition of *Cynanchum acutum* L.
Vazha Nebieridze
- S3.P113 A comparative study between CPC and Flash chromatography for natural product purification
Thomas Michel

- S3.P114 Molecular Docking and Dynamics Simulations Study of Cathecin from *Mentha cordifolia* as potential HIV-1 Protease Inhibitor and Tat-Cyclin Competitor
Jeffrey Clement Bungar
- S3.P115 Phytochemical profiling of *Acalypha australis* and screening for its most potent anti-inflammatory compounds with bio-affinity ultrafiltration LC-MS
Mingquan Guo
- S3.P116 The Natural Products Magnetic Resonance Database (NP-MRD): Comprehensive Resource for Natural Products NMR Data Enabling Discovery and Understanding
John Cort
- S3.P117 Exploring the impact of moderate water stress on anthocyanin, flavonol glycosides and terpene dynamics across fruit development and ripening in *Pistacia lentiscus* L.
Lucrezia Muti
- S3.P118 Isolation, and Characterization of novel compound from *Anaphalis triplinervis*, its HPTLC quantification and antioxidant potential
Ankush Sundriyal
- S3.P119 Trapping and detecting electrophilic metabolites of botanical natural products as glutathione conjugates
Richard Van Breemen
- S3.P120 Validation of Artificial Intelligence tools for expedited Innovation and globalization of Medicinal Plants in the Dietary Supplement Industry
Anand Swaroop
- S3.P121 Modified Proanthocyanidin DESIGNER Materials with Dentin Biomodification Activity
Guido Frank Pauli
- S3.P122 Antimicrobial activity of 2'-hydroxychalcones with a chlorine atom and their glycosides
Agnieszka Krawczyk-Lebek
- S3.P123 Novel ardisiphenol D derivatives 1279P1 and 1279P2: promising anti-colorectal cancer agents targeting the PI3K/Akt pathway and lipogenesis enzymes
Bai-Sen Chen
- S3.P124 Antifibrotic activity study of natural stilbenoids from *Dendrobium nobile* Lindl
Chu Shing Lam
- S3.P125 Planar Chromatography method development for the herbal metabolomic study on *Achillea millefolium* (Asteraceae)
Simon Jackson
- S3.P126 Metabolomics and microbiomics analysis reveals the dynamic change during *Citrus depressa* Hayata fermentation
Ta-wei Liu
- S3.P127 LC-MS analysis-based molecular networking for identifying anthelmintic compounds in *Terminalia leioarpa*, a traditional plant used in livestock farming in West Africa
Joëlle Quetin-Leclercq
- S3.P128 Integration of Wnt-inhibitory activity and metabolomics structural novelty results to discovery novel bioactive natural products: new bicyclo[3.3.1]non-3-ene-2,9-diones from the Leaves of *Hymenocardia punctata*
Luis-Manuel Quiros-Guerrero
- S3.P129 Enhancing prioritization strategies of natural extracts: Integrating heterogeneous data from metabolomics datasets and biological screenings into knowledge graphs
Luis-Manuel Quiros-Guerrero
- S3.P130 The impact of various technological parameters and a place of origin of *Nigella sativa* L seeds on the thymoquinone content in black cummin oil
Benita Hryć

- S3.P131 Unravelling enzymatic hydrolysis inhibitors in lignocellulosic biomass samples: A combined LC-HRMS/MS and NMR multiblock modelling approach
Ian Ramtanan

Total synthesis and biomimetic synthesis of natural products

- S3.P132 Obtaining new [6]-gingerol derivatives with potential antiparasitary activity
Warley Borges
- S3.P133 Identification of the C2-Sulfonamidyl Chromone Scaffold for Developing Anti-Inflammatory Agents Targeting Hyperactivation of Human Neutrophils
Hsin-yi Hung
- S3.P134 New Xanthone Analogues with Potent Intracellular Reactive Oxygen Species Inhibition Effects
Siau Hui Mah
- S3.P135 A new complementary process toward functionalized dihydropyridinones: application in total synthesis of phenanthroindolizidine alkaloids
Sanghee Kim
- S3.P136 Divergent synthesis of prenylated xanthenes as novel fungal IRE1 Inhibitors
Guillaume Viault
- S3.P137 Bimatoprost potentiates hair growth via Akt/Wnt/ β -catenin signaling by targeting the KATP channels
Jung-il Kang
- S3.P138 Cytotoxic Effects of Xanthone Derivatives Towards Leukemia Cells
Xiaocong Fu
- S3.P139 Thymol-based heterocyclic derivatives: Synthesis and SARS-CoV-2 Mpro molecular docking studies
Genevieve Henry
- S3.P140 Large scale synthesis, anticonvulsant effect and toxicity assessment of Cannabigerol and Cannabinol
Prokopios Magiatis
- S3.P141 Expanding chemical space around structures from *Strychnos variabilis*: Late-Stage Functionalization Strategies using Photochemistry
Pierre Francotte
- S3.P142 Effects of metabolic modulators on the accumulation of specialized metabolites in *Hypogymnia physodes* (L.) Nyl.
Izabela Baczewska
- S3.P143 Synthesis of polymethoxyflavone – zapotin (5,6,2',6'-tetramethoxyflavone) and its new structural analogues
Monika Tomczykowa
- S3.P144 Anti-leishmanial activity of synthesized and characterized semisynthetic derivatives of Betulin
Aanchal Loshali
- S3.P145 Exploring novel amino acid synthesis for plant-derived active cyclopeptide acquisition
Zheng-Ming Liang
- S3.P146 Structure modification of plant-derived miluisanes compounds to explore their therapeutic potential as anticancer agents
Wen-Jian Xie

Genetic engineering of food crops and medicinal plants

- S3.P147 Seed propagation, tissue culture and in-vitro conservation studies in *Aristolochia tagala* Cham: an endangered medicinal plant of western ghats of India
Raviraja Gavali Shetty
- S3.P148 Efficient genetic transformation of *N. damascena* callus
Magdalena Klimek-Chodacka

Natural cosmetics, nutraceuticals, and food supplements

- S3.P149 Identifying antioxidant compounds within a mixture through dereplication and online DPPH strategies: A study on the CO₂ byproduct of the Makwaen Pepper
Jérémy Perret
- S3.P150 Establishing human intestinal slice cultures as an ex vivo model of inflammatory bowel diseases for the pharmacological characterization of herbal extracts
Julia Werner
- S3.P151 Comparative Investigation of Frankincense Nutraceuticals: Pharmacokinetic/Pharmacodynamic Study
Tatiana Syrovets
- S3.P152 Bioactive potential of deglycosylated flavonoids extracted from immature oranges in skin health
Anne Mandeau
- S3.P153 Protective effect on H₂O₂-induced oxidative stress in L6 myotubes of *Mitragyna diversifolia* leaf extract
Juraithip Wungsintaweekul
- S3.P154 *Diospyros lotus* leaf extract and its main component myricitrin inhibit both histamine-dependent and histamine-independent itching
Sean Il Jang
- S3.P155 Beneficial effects of *Gryllus bimaculatus* extract on muscle atrophy in dexamethasone-stimulated C2C12 Cells
Sean Il Jang
- S3.P156 Anti-inflammatory effect of hyuganin from *Peucedanum japonicum* Thunberg leaves in lipopolysaccharide-stimulated RAW264.7 cells
Byoung Ok Cho
- S3.P157 Triterpene glycosides from the roots of *Deutzia x hybrida* "Strawberry Fields" (Hydrangeaceae) as sweet taste modulators
Efstathia Karachaliou
- S3.P158 Simultaneous Analysis of Bergapten and Schinifoline in *Zanthoxylum Schinifolium* Seeds Using HPLC and UPLC-MS/MS Systems
Changseob Seo
- S3.P159 Unveiling the mystery of Australian *Apis mellifera* propolis
Trong Tran
- S3.P160 Chemical profile and antioxidant capacity of Chilean traditional fermented beverages of algarrobo and chañar
Christina Mitsi
- S3.P161 Anti-Glycation Activity of Corn Silk Water Extract and Establishment of Methods for Evaluating its quality
Ryuichiro Suzuki
- S3.P162 Bioguided isolation and feature-based identification of bioactive molecules from *Fagraea berteriana* targeting dermal papilla cells and the Wnt pathway
Phila Raharivelomanana
- S3.P163 Regenerative farming of medicinal crops as a source of robust, sustainable and novel supply chains for the cosmetic industry (BIOSURE)
Simon Jackson
- S3.P164 Immunomodulatory activities of aqueous extracts of *Dendrobium officinale* and *Dendrobium nobile* in peripheral blood mononuclear cells of tongue cancer patients
Clara Bik San Lau
- S3.P165 An innovative bioactive ingredient preparation method without column chromatography and gel filtration: High-purity 3S,3'S-astaxanthin from bioresources
Yang-chang Wu
- S3.P166 Bioactivity-Based Molecular Networking for the comparison of *Calophyllum inophyllum* (tamanu) oil obtained via three ecofriendly extraction processes
Phila Raharivelomanana

- S3.P167 GABA Prevents Sarcopenia through regulation of protein turnover and inflammaging in 21-25-month-old C57BL/6J mice
Boo-yong Lee
- S3.P168 The influence of disturbed gravity on the content of bioactive phytochemicals in selected sprouts of edible plants from the Brassicaceae family
Marta Grudzińska
- S3.P169 Equivalency of DNA sequencing, HPTLC chromatographic analysis, botanical microscopy, for botanical identity/authentication: A statistical evaluation and quantitation of identification uncertainty
Sidney Sudberg
- S3.P170 Bioassay-guided characterization of the Bergamot (*Citrus aurantium* var. *bergamia*) leaf-extract
Marika Allodi
- S3.P171 From nature to hair: using lignin from Acacia wood to produce hair conditioners
Carla Varela
- S3.P172 Phytochemical exploration and biological evaluation of four *Thymus* L. species from Türkiye
Pierre-eric Campos
- S3.P173 Isoflavone-rich clover sprouts and their effect on thyroid cells in vitro
Wojciech Paździora
- S3.P174 Anti-histaminic and anti-inflammatory activities of *Ribes nigrum* L. leaf extract CPSP-01
Sophie Holowacz
- S3.P175 In vitro physiological effects and phytochemical exploration of four *Sideritis* L. species from Türkiye
Ebru Özdemir Nath
- S3.P176 Inhibitory effects of dietary Schisandra supplements on CYP2C19 and CYP2J2 in human liver microsomes
Do-hyeon Gwan
- S3.P177 Inhibitory effects of dietary Schisandra supplements on cytochrome P450 3A in human liver microsomes
Bae-gon Kang
- S3.P178 Direct extraction and formulation of *Bixa orellana* L. using a green biphasic solvent
Marine Chambaud
- S3.P179 Phenylpropanoids and Lignans in Hemp Seeds (*Cannabis sativa* L. semen): Identification and Quantification
Ilaria Maria Crimi
- S3.P180 A refined extract of Rosehip modulates skin genes: New evidence for a nutraceutical
Cynthia Gisela Suarez
- S3.P181 Complementary LC-MS/MS analyses of alkaloid-rich fractions of the seeds of *Plukenetia volubilis* L. by LTQ Orbitrap XL and ZenoTOF 7600
Kristelle Hughes
- S3.P182 Compounds of edible fruits vs. bacterial nucleases - in silico study
Monika Czerwińska
- S3.P183 Iridoids from *Stenaria nigricans* and their Insect Repellency Assessment
Fazila Zulfiqar
- S3.P184 Natural Deep Eutectic Solvents: A Sustainable Alternative for the Extraction and Stabilization of Carotenoids and Chlorophylls from Spinach Leaves
Ramla Sahli
- S3.P185 Baking a difference: Elevating bread with *Portulaca oleracea* L. seeds
Maria João Rodrigues
- S3.P186 Chemical and sensory profile of different oregano individuals originated from Vertisco Mountain
Katerina Karamanoli
- S3.P187 Valuing the Medicinal Flora of Cõa Valley (Portugal) through the development of new plant-based cosmetics
Mário Marques

- S3.P188 Identification of anti-inflammatory compounds in *Parasenecio adenostyloides* using bioactivity-based molecular networking
Yoo Kyong Han
- S3.P189 Metabolic Response of *Panax ginseng* to Root-Rot: A Molecular Networking Approach
Kyu Won Kim
- S3.P190 Collagenase and Tyrosinase Inhibitory Compounds from Fish Gut Bacteria *Ruegeria atlantica* and *Pseudoalteromonas neustonica*
Jonghwan Kim
- S3.P191 Phytochemical study of five Polynesian plant extracts for skin care application
Marion Chambon
- S3.P192 Eco-extraction and characterization by HPLC-HRMS/MS of *in vitro* culture of the carnivorous plant *Drosera*
Emilie Destandau
- S3.P193 Antioxidant potential and phytochemical analysis of an infusion obtained from the leaves of *Talisia esculenta*
Katia Scortecci
- S3.P194 Prospecting the phytochemical and antioxidant effects *in vivo* and *in vitro* of the ethanolic and aqueous extracts of the seeds of *Geoffroea decorticans burkart* (Fabaceae) on the animal model *Tenebrio molitor*
Kátia Scortecci
- S3.P195 Standardisation of secondary metabolite extraction and characterisation of *Citrus aurantium var. bergamia* leaves using green extraction technology
Beatrice Conversazioni
- S3.P196 Cosmeceutical Stability Assessment of Bergamot: Behavioural Studies on its Potential as an Active Ingredient
Beatrice Conversazioni
- S3.P197 Sustainable isolation and improved structural characterization of mycosporin-like amino acids: natural UV-filters from red algae
Thomas Michel
- S3.P198 *Erythrina* spp. as natural anti-inflammatory ingredients for cosmeceuticals: An *in-silico* study
Natalia Blicharska
- S3.P199 Residual solvents in botanical extracts used in food supplements: A regulatory conundrum for scientific justification
Deepak Mundkinajeddu
- S3.P200 *Grateloupia lanceolata* promotes hair growth by inhibiting of 5 α -reductase activity and opening of KATP channels
Da Hee Yang
- S3.P201 Anti-inflammatory effect of *Lysimachia mauritiana* Extract on Particulate Matter 10 Plus Diesel Exhaust Particles (PM10D)-induced respiratory disease mouse model and standardization using UPLC-qTof/MS analysis
Yoon-young Sung
- S3.P202 Analysis of dietary supplements containing adaptogenic herb *Astragalus trimestris*
Katerina Knizkova
- S3.P203 The GreenValue project: Exploring salt tolerant plants as sources of innovative food additives
Luísa Custódio
- S3.P204 Seasonal variation of the indole alkaloid profile of *Vinca minor* determined by GC-MS
Verena Spiegler
- S3.P205 Review of Honeybee-Sourced, Ingested Natural Products and Their Health Uses
Barbara Claire Sorkin
- S3.P206 Evaluating the analytical profile of ten hydrophilic *Cucurbita pepo* seed extracts
Adina Elena Grasu
- S3.P207 Uncovering the potential of cyanobacterial pheophorbide derivatives for metabolic disorders
Natália Silva

- S3.P208 Phyllobilins derived from chlorophyll degradation are overlooked, bioactive phytochemicals in plant-based food
Cornelia Karg
- S3.P209 Development of a simple liquid chromatographic method for the determination of sitosterol in dietary supplements
Ruxandra Ștefănescu
- S3.P210 Effects of Crude Leaf Extract of *Ficus* sp. on the proliferation and differentiation of C2C12 muscle cell line
Ma. Theresa Teresa
- S3.P211 In vitro analysis of antioxidant and antidiabetic activity of four plant extracts from the Algarve region
Marijana Zovko Končić
- S3.P212 Innovative approach towards the qualitative analysis of herbal products using UHPLC-PDA-HRMS/MS: Case study on species discrimination within the Lamiaceae family
Loic Loffredo
- S3.P213 Phenolic composition, antioxidant, and enzyme inhibitory activities of *Saxifraga paniculata* Mill
Stevan Samardžić
- S3.P214 What does the percentage of total boswellic acids say about the quality of a *Boswellia serrata* extract?
Tivadar Kiss
- S3.P215 Pharmacokinetic study of cycloastragenol administered in a liposomal formulation to rats
Petra Cihlarova
- S3.P216 An Extract of *Boehmeria nivea* induces apoptosis by disrupting oncogenic signaling in human pancreatic cancer cells
Hyejin Boo
- S3.P217 Chemical screening and biological activity of various species of wood-decay fungi of the genus *Ganoderma*
Petr Maršik
- S3.P218 Identification of a marine cyanobacterium *Rivularia* sp. LEGE 07159 with promising bioactivity on appetite regulation
Ana C. Fonseca
- S3.P219 Potent xanthine oxidase inhibitory activity of acacetin from *Agastache rugosa* (Fisch. & C.A.Mey.) Kuntze in vitro and molecular docking studies
Heung Joo Yuk
- S3.P220 Analysis and biological evaluation of Chios Mastic Gum towards its anti-ageing properties
Maria Halabalaki
- S3.P221 Metabolomics of *Withania somnifera* L. extracts by a combined LC-MS and NMR approach
Luciana Maria Polcaro
- S3.P222 A food supplement derived from high-phenolic Kalamon table olives reduced cholesterol in patients with mild dyslipidemia
Eleni Melliou
- S3.P223 The rising phenomenon of cannabis ,tea' drinking: A safe and healthy alternative?
Matěj Malý
- S3.P224 HPLC-MS analysis and AChE activity of aerial parts and root extracts of *Taraxacum mirabile* Wagenitz, an endemic species of Turkey
Seçil Karahüseyin
- S3.P225 Dietary soft electrophiles upregulate lipid pro-resolving molecules in a *Drosophila* model of Parkinson's disease
Swarnali Chatterjee
- S3.P226 Comprehensive analysis of commercial kratom products: alkaloids, polyphenols, heavy metals and microbial contaminations
Petra Cihlářová
- S3.P227 Diarylheptanoids from *Corylus avellana* cultivar "Tonda di Giffoni": Antioxidant Effects through the Activation of the Nrf2 Pathway as Assessed via Molecular Docking and Biological Evaluation
Antonietta Cerulli

- S3.P228 Valorization of Almond Okara as a valuable source of polyphenols and proteins
Mariam Taha
- S3.P229 Application of annular centrifugal extraction (ACE) in honey – Isolation and identification of honey bioactive compounds
Gabriela Belén Lemus Ringlele
- S3.P230 Ornamental varieties of *Achillea millefolium* L. as a source of skin-lightening ingredients for natural cosmetics
Katarzyna Gawel-Bęben
- S3.P231 Impact of the drying process and incorporation of natural preservatives on the viability of lactic acid bacteria in yogurts
Sandrina Alves Heleno
- S3.P232 NMR metabolomics and chemometrics of *Malus domestica* (Suckow) Borkh. varieties from Molise region of Italy
Vadym Samukha
- S3.P233 Exploring *Genista tridentata* Leaves Extract: Novel Insights for Functional Food in Diabetes Management
Inês Laranjeira
- S3.P234 A formulation containing palmitoylethanolamide and phenolic compounds counteracts diabetes and related hepatic damage in mice: in vivo and in vitro evidence
Stefania Melini
- S3.P235 The *Vitis vinifera* cvs. callus in vitro culture extracts as a potential cosmetic antioxidant
Magdalena Malinowska
- S3.P236 Phytochemical Analysis of Echinacea Preparations from The Pharmacies and Herbal Markets in Türkiye
Rengin Baydar
- S3.P237 Untargeted metabolomics analyses to identify a new sweet compound released during post-fermentation maceration of wine
Marie Le Scanff
- S3.P238 Do you know what's really hiding in popular herbal supplements? – evaluation of products containing *Cistus* leaves and extracts
Justyna Baranowska
- S3.P239 A smartphone-based methodology for analyte quantification and antioxidant activity determination directly in emulsions
Varvaresou Athanasia
- S3.P240 Phytochemical analysis of *Laurus nobilis* L. leaves essential oil: rationalization of antioxidant and anti-inflammatory activities by combined in vitro and in silico approach
Francesca Fantasma
- S3.P241 A study on the biological activities of loquat leaf extract using various extraction methods
Jung Wook Kang
- S3.P242 Study on Modulation of Inflammation Expression by Kailan (*Brassica oleracea* L.) leaves extract
Jung Wook Kang
- S3.P243 Glucosinolates in *Brassica incana* subsp. *raimondoi* (Brassicaceae) leaf extract: composition, content, and anti-inflammatory activity
Giuseppe Antonio Malfa
- S3.P244 Ex vivo and clinical evaluation of efficacy and mode of action Anogeissus leiolepis and Retinol containing eye cream
Rocky Graziose
- S3.P245 Targeted Isolation of Natural Products that Modify Sweet Taste Perception through Metabolomics, Molecular Networking and Sensory Evaluation of *Symplocos* spp. (Symplocaceae)
Diana Klaser Cheng

- S3.P246 Potential usefulness of rice bran extract as a neuroprotective against depression associated with experimental colitis
Mohamed T. Khayyal
- S3.P247 Investigation of the Greek microbial diversity for the discovery of novel antiaging products
Konstantinos Gaitanis
- S3.P248 EthnoHERBS: Conservation of European Biodiversity through Exploitation of Traditional Herbal Knowledge for the Development of Innovative Products
Evanthia Ntina
- S3.P249 *Artocarpus thailandicus* heartwood extract extends lifespan and promotes healthy aging behaviour in *Caenorhabditis elegans*
Tewin Tencomnao
- S3.P250 Utilization of ethnobotanical data to discover potent inhibitors of skin related enzymes through the application of in silico based methodology
Antigoni Cheilari
- S3.P251 Chemical Characterization of a Schisandra sphenanthera Fruit Extract, an Adaptogen from a Sustainable Panda-Friendly Conservation Program
Alison Pawlus
- S3.P252 LC-MS/MS analysis of polyphenolic and triterpene components and antioxidant activity of cold-pressed rose oils
Marta Olech
- S3.P253 Chemical insights into a bioactive polyphenolic extract from *Camellia japonica* L. flower
Humaira Khan
- S3.P254 Complementary LC-MS/MS analyses of alkaloid-rich fractions of the seeds of *Plukenetia volubilis* L. by LTQ Orbitrap XL and ZenofTOF 7600
Kristelle Hughes
- S3.P255 Effect of Different Extraction Methods on Determination of *Drosera capensis* Active Ingredients
Onur Sinan Turkmen
- S3.P256 Valorization of *Olea europaea* L. cv. Caiazana pruning waste: a step towards a sustainable approach for resource functional recovery
Hamid Mushtaq
- S3.P257 Plants from Lublin region as potential sources of ingredients with cosmetic value
Kamila Kusio-Targonska
- S3.P258 Anti-neuroinflammatory effects of *Elsholtzia blanda* Benth on lipopolysaccharide-stimulated BV-2 microglial cells
Seung-hwa Baek
- S3.P259 Metabolite Profiles and Biological Activities of *Capsicum chinense* Cell Cultures
Amir Akhgari
- S3.P260 Liposome encapsulation of *Lavandula austroalpina* N.G. Passal., Tundis & Upson leaf and stem extracts for cosmeceutical innovation
Claudia Gravina
- S3.P261 Effect of combining proteolytic enzymes papain and chymotrypsin with Alexandrite laser hair removal on the degree of facial hirsutism
Athanasia Varvaresou
- S3.P262 Simultaneous analysis of bergapten and schinifoline in *Zanthoxylum schinifolium* Siebold & Zucc. seeds using HPLC and UPLC-MS/MS systems
Changseob Seo
- S3.P263 Health-promoting effects of the hydroalcoholic extract from the *Allium sativum* L. ecotype "Sulmona red garlic" in the colon
Claudio Ferrante

- S3.P264 Anti-inflammatory effect of *Lysimachia mauritiana* Extract on Particulate Matter 10 Plus Diesel Exhaust Particles (PM10D)-induced respiratory disease mouse model and standardization using UPLC-qTof/MS analysis
Yoon-young Sung
- S3.P265 Optimization, estimation, and improvement of lutein content from marigold flowers using *Lactobacillus* species by solid-state fermentation
Zuha Rahman
- S3.P266 Metabolite Profiling and Molecular Network Shows Kinkeloids as promoting of collagen synthesis from *Combretum micranthum*
Souhila Messaili
- S3.P267 Determination of the anti-inflammatory activity of fruits of some varieties of *Rubus idaeus* and *Rubus occidentalis* (Rosaceae)
Mirosława Krauze-Baranowska
- S3.P268 Unveiling Thailand's ethnopharmacological heritage to find new natural sweeteners
Antoine Bruguière
- S3.P269 Recovery effect of phloroglucinol 1-O- β -D-glucopyranoside from the brown alga *Agarum clathratum* subsp. *yakishiriense* on neomycin-induced otic hair cell damage in zebrafish
Jong Hwan Kwak
- S3.P270 Giuseppe Raddi and the plants: Taxonomy, Uses and Conservation in the 21st century
Rafael Raddi



Finzelberg

DELIVERING BOTANICAL EFFICACY.

PROTECT AND PROMOTE HEALTH THE NATURAL WAY.

As a partner to the pharmaceutical and dietary supplement industries, we extract the efficacy from botanicals and make it available to our clients. Our experience in cultivating, sourcing, analyzing and processing medicinal plants combined with our market and regulatory affairs expertise provide them a competitive edge. Together, we develop, optimize and deliver safe and effective botanical products that drive our clients' market success sustainably.











finzelberg.com

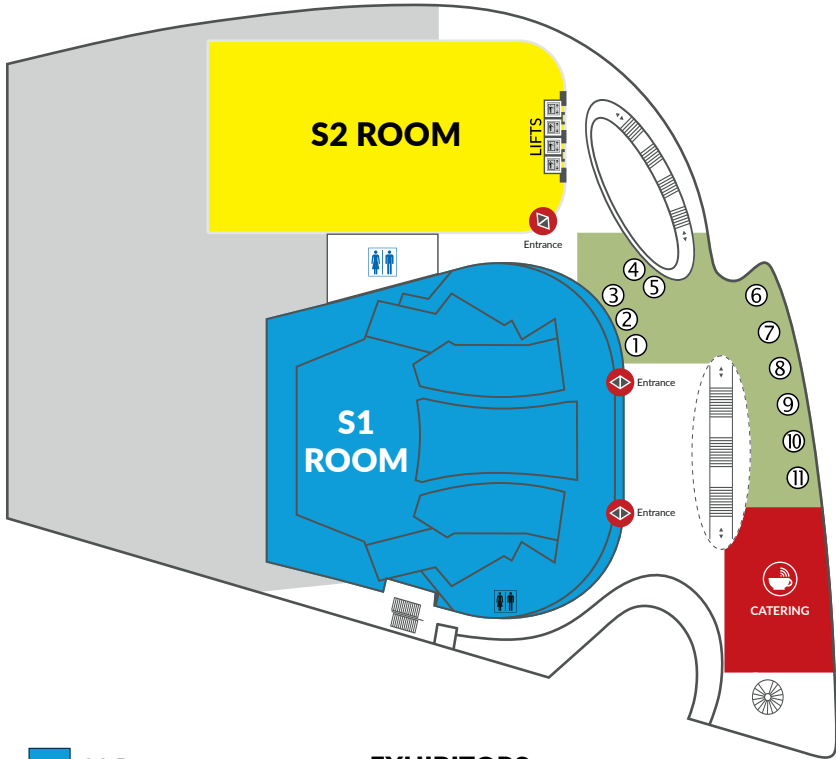


Floor Plan and Exhibition

LEVEL 0



-  S1 Room
-  S2 Room
-  Poster Area
-  Speaker Service Center
-  Registration and Information Desk
-  Catering Area
-  Elevator
-  First Aid
-  Toilets
-  Cloakroom

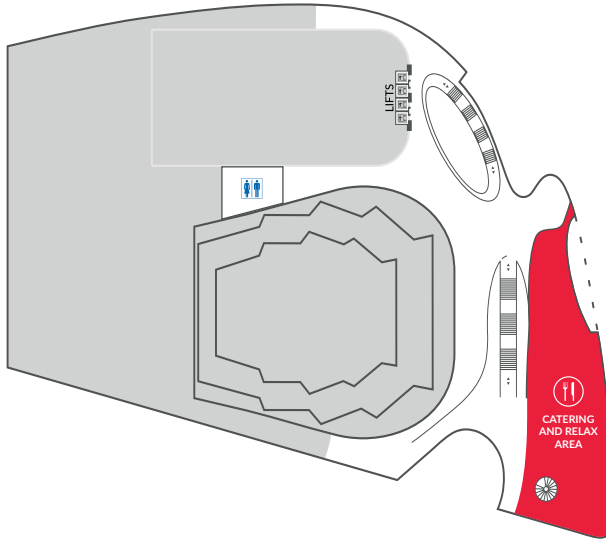


- S1 Room
- S2 Room
- Exhibition Area
- Catering Area
- Elevator
- Toilets

EXHIBITORS:

- ① Dr. Wiliam Schwabe GmbH & Co. KG
- ② "Shim-pol" A. M. Borzymowski
- ③ nmrXiv Project Group
- ④ Cfm Oskar Tropitzsch GmbH
- ⑤ Bayer
- ⑥ AIM Research Company
- ⑦ Extrasynthese
- ⑧ Gilson Servie Europe
- ⑨ Teledyne LABS
- ⑩ Georg Thieme
- ⑪ PhytoLab

LEVEL 2

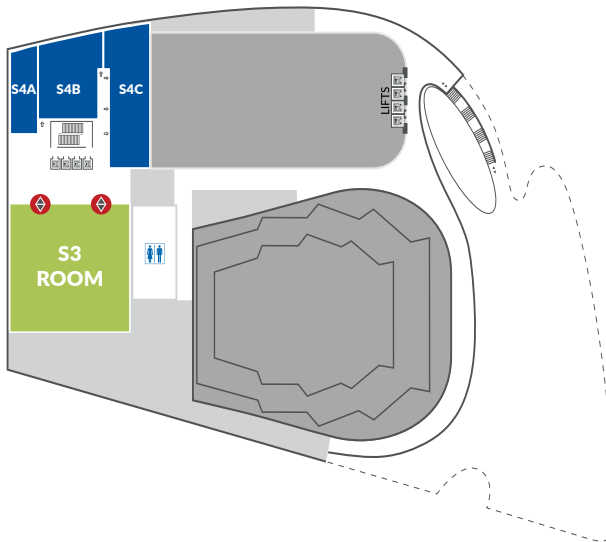



 Catering and Relax Area


 Elevator

 Toilets

LEVEL 3



 S3 Room

 S4 Room

 Elevator

 Toilets

List of Sponsors and Partners

SILVER SPONSORS



Bayer

Bayer Consumer Health

Phytomedicines Supply and Development Center, Steigerwald
Arzneimittelwerk GmbH, Havelstraße 5, 64295 Darmstadt, Germany

☎ +49 151 12688891, ✉ olaf.kelber@bayer.com

www.bayer.com/de/de/darmstadt-startseite



Schwabe Group
From Nature. For Health.

Dr. Willmar Schwabe GmbH & Co. KG

Willmar-Schwabe-Straße, 476227 Karlsruhe, Germany

☎ +49(0)721-4005399, ✉ pharmacovigilance@schwabe.de

www.schwabepharma.com

BRONZE SPONSORS



AIM Research Company

5936 Limestone Rd., Suite 302, Hockessin, DE 19707, United States

☎ +1 302 235-8701, ✉ info@aimresearchcompany.com

aimresearchcompany.com



Oskar Tropitzsch

Cfm Oskar Tropitzsch GmbH

Adalbert-Zoellner-Str. 1, 95615 Marktredwitz, Germany

☎ +49-(0)9231-9619-0, ✉ kontakt@cfmot.de

www.cfmot.de



CORTEVA Agriscience

9330 Zionsville Road, Indianapolis, IN 46268, United States

☎ +1 833-267-8382

www.corteva.com



EXTRASYNTHESE

Impasse Jacquard, 69727 Genay, France

☎ +33 6 76 04 05 37, ✉ rdv@extrasynthese.com

www.extrasynthese.com



Max Zeller Söhne AG

Seeblickstrasse 4, CH-8590 Romanshorn, Switzerland

☎ +41 71 466 05 00

www.zellerag.ch



shim-pol®

„SHIM-POL A. M. Borzymowski”

E. Borzymowska-Reszka, A. Reszka Spółka Jawna

ul. Kochanowskiego 49a, 01-864 Warszawa, Poland

☎ +48 22 722 70 48, ✉ biuro@shim-pol.pl

www.shim-pol.pl

PARTNERS



Amway Corporation Innovation and Sciences

7575 Fulton Street East, Ada, Michigan, 49355. United States

☎ +1 616 787 4000, ✉ amitabh_chandra@amway.com

www.amwayglobal.com



Bionorica®

Bionorica SE

Kerschensteinerstr. 11-15, 92318 Neumarkt, Germany

☎ +49 9181 231 0, ✉ info@bionorica.de

www.bionorica.de



Finzelberg

DELIVERING BOTANICAL EFFICACY.

Finzelberg GmbH

Koblenzer Straße 48 – 56, 56626 Andernach, Germany

☎ +49 2632 924-00, ✉ welcome@finzelberg.com

finzelberg.com/en



GILSON®

Gilson Service Europe BV

3B Humphys Road, Woodside Estate, LU5 4TP Dunstable, United Kingdom

☎ +44 (0) 845 5196 872, ✉ rmuttell@gilson.com

www.gilson.com



Herbonis®

Independent by Nature

Herbonis Animal Health GmbH

Rheinstrasse 30, 4302 Augst BL, Switzerland

✉ office@herbonis.com

herbonis.com/en



Nor-Feed SAS

3 rue Amedeo Avogadro, 49070 Beaucauzé, France

☎ +33 2 41 93 74 56

www.norfeed.net/en/



PhytoLab

PhytoLab GmbH & Co. KG

Dutendorfer Straße 5-7, 91487 Vestenbergsgreuth, Germany

☎ +49 9163 88-216, ✉ welcome@phytolab.de

www.phytolab.com/en/



SaluVet GmbH

Stahlstraße 5, Entrance Steinstraße 33, 88339 Bad Waldsee, Germany

☎ +49 (0) 7524 4015-0, ✉ info@saluvet.de

saluvet.de/en/



TELEDYNE

Teledyne LABS

Teledyne LABS

4700 Superior Street, Lincoln, NE 68504, United States

☎ +1 800 228-4373

www.teledynelabs.com/en-us



Thieme

Georg Thieme Verlag KG

Rüdigerstraße 14, 70469 Stuttgart, Germany

☎ +49-711-8931-321, ✉ plantamedica@thieme.de

<https://www.thieme.de/de/planta-medica/current-issue-5611.htm>

Social Programme

Welcome Reception

Date: Saturday, July 13, 2024
Time: 18:30 – 20:00
Venue: ICE Kraków Congress Centre,
level 2
Dress code: casual



Conference Dinner

Date: Tuesday, July 16, 2024
Time: 20:00 – 23:00
Venue: Old Tram Depot (Stara Zajezdnia)
Address: Św. Wawrzyńca 12, 31-060 Kraków
Dress code: business casual

Old Tram Depot – Stara Zajezdnia Kraków is a historic building in the centre of Krakow's Kazimierz district. The Hall was built in 1913 and was once a tram depot. The renovated building is a unique facility and an example of rare wooden skeleton architecture in Kraków with brickwork,



commonly called “Prussian Wall”. It gives the interior an unusual character and makes it a place with soul and original atmosphere. Stara Zajezdnia also offers its own microbrewery, and the beer produced here is a remarkable attraction.



General Information



Badges

Each participant receives a name badge upon check-in at the registration desk. This badge should be worn at all times in order to gain access to the session rooms and other events. Please note that access to the conference areas will not be permitted without an official conference badge. If you have lost your badge, a new one can be reprinted (with proof of your original registration) at the Registration Assistance Desk for an extra fee.



Cash machine – EURONET

Cash machine is available in Park INN Hotel by Radisson – 200 meters from a congress venue.



Certificate of Attendance

The Certificate of Attendance will be provided after the conference in digital form by email.



Cloakroom

A cloakroom is located in the registration area. It is free of charge for conference attendees.

Opening hours:

Saturday, July 13, 2024	14:00 – 20:30
Sunday, July 14, 2024	08:00 – 19:00
Monday, July 15, 2024	08:00 – 19:00
Tuesday, July 16, 2024	08:00 – 19:00
Wednesday, July 17, 2024	08:00 – 16:00



Currency

The local currency is the Polish Zloty (PLN). Average rate (1 EUR = 4.2 PLN).



Emergencies / First Aid

Dial 112 for emergencies. Please contact the registration desk or any staff member for assistance



First Aid Room

In the ICE Kraków Congress Centre, the First Aid room is located on level 0.



Exhibition

Join us in meetings with key industry experts to exchange knowledge on different areas of development and research in Natural Products. The Industry Exhibition will be organized in the venue on the level 1.

Opening hours:

Sunday, July 14, 2024	08:30 – 18:00
Monday, July 15, 2024	08:30 – 18:00
Tuesday, July 16, 2024	08:30 – 18:00
Wednesday, July 17, 2024	08:30 – 16:00



Food and Beverages

Catering services are provided on the levels: 0, 1 and 2. The use of drinks and meals in the lecture halls is strictly prohibited.



Language

The official language of ICNPR2024 is English.



Lost and Found

The Lost and Found office is located at the Registration Assistance counter in the registration area.



Mobile Phone Policy

Please respect the meeting policy and switch your mobile phones to silent in all meeting rooms.



Public Transportation Pass

The public transportation pass entitling to free use of public transport on July 13–17 in Kraków, will be available at the reception desk for participants with full participation July 13–17, 2024.



Poster Area

The Poster session area is located on level 0. Posters set up will be available from 8:30 every day starting on July 14, 2024 with poster dismantling by 19:30 every evening finishing on July 16, 2024. Please refer to the poster board number for your session (Poster session 1, 2 or 3) on page 30 – 75.



Registration Desk

The Registration desk is located at the main conference entrance. Please use the self-registration kiosks provided on both sides of the entrance area. In case of any technical problems, please contact the main registration desk. Conference bags will be distributed at the main registration desk.

Opening hours of the main registration desk:

Saturday, July 13, 2024	12:00 – 20:00
Sunday, July 14, 2024	08:00 – 19:00
Monday, July 15, 2024	08:00 – 19:00
Tuesday, July 16, 2024	08:00 – 19:00
Wednesday, July 17, 2024	08:00 – 16:00



Smoking Policy

Smoking is prohibited in the conference venue.



Speaker Service Centre

The Speaker Service Centre is located in the registration area. Computer equipment is available for speakers to manage their presentations.

Opening hours:

Saturday, July 13, 2024	12:00 – 20:00
Sunday, July 14, 2024	12:00 – 19:00
Monday, July 15, 2024	08:00 – 19:00
Tuesday, July 16, 2024	08:00 – 19:00
Wednesday, July 17, 2024	08:00 – 16:00



Telephone

The international access code for Poland is +48. In case of emergency, call 112.



WiFi Access

Free WiFi access is available inside the venue. Choose the ICNPR2024 network. No password is required.



From seed to patient.

We develop innovative phyto-pharmaceuticals for selected indication areas to improve patients' health and quality of life.

The efficacy, safety and tolerability of our medicines have been proven in numerous pre-clinical and clinical studies performed by Zeller and published in peer-reviewed journals worldwide.

Our commitment to the full control of the value chain allows us to guarantee consistency of the processes resulting in high-quality, safe and effective phyto-pharmaceuticals.

HERBAL MEDICINES.

FROM SWITZERLAND.

SINCE 1864.

Max Zeller Söhne AG
8590 Romanshorn
www.zellerag.ch

zeller 



SCHWABE
PHYTO INNOVATION
CHALLENGE



The Schwabe Phyto Innovation Challenge

Healthy Aging

We are combining the scientific excellence of the academic community with the industry's expertise in drug development, regulatory affairs and business matters. Together, we can create phyto-innovations that matter.

Schwabe is inviting motivated scientists from academia or small start-ups to combine forces with us and take part in a collaborative "open research" initiative. Please get in touch to learn more about our opportunities for funding.

**You think your work
qualifies for funding?**

submit your
projekt



www.phyto-innovation.com
phyto-innovation@schwabe-group.com