

Phytochemistry for a Sustainable Future: Bridging Nature, Innovation, and Health

PSE MEETING 2026

University of Campania "Luigi Vanvitelli"
Caserta, Italy



PSE ANNUAL MEETING 2026

15-18 SEPTEMBER

CASERTA

PROGRAM



<https://pse2026.com/>



September 15, 2026

9:00-14:00 **Registration**

11.00-12:30 **Workshop**

14:30-15:00 **Opening ceremony**

Bruker Award, Chair: Krystyna Skalicka-Woźniak

15:00-16:00 **Kyo Bin Kang**
Computational Mass Spectrometry: Toward Discovery and Functional Metabolomics in Phytochemical Research

Session I Chairs: Brigida D'Abrosca, Stefan Schwaiger

16:00-16:15 **O1: Simone Moser**
From Waste to Value: Bioactivities, Mechanisms, and Molecular Targets of Chlorophyll Metabolites

16:15-16:30 **O2: Adriana Trifan**
Natural Deep Eutectic Solvents for the Sustainable Valorization of Comfrey (*Symphytum officinale* L.) Roots

16:30-16:45 **O3: Stefanos Kikionis**
Development of Biomimetic Porous Scaffolds Based on Marine Biopolymers for Bone Tissue Regeneration

16:45-17:00 **O4: Angela Sorice**
NMR-based metabolomics of *Astragalus* L. species from Türkiye to investigate potentially bioactive cycloartane-type saponins

17:00-17:15 **O5: Hasan Kırmızıbekmez**
New Stilbene Glycosides from *Prospero autumnale* and Their Anti-inflammatory Activity

17:15-17:30 **O6: Elio Pozzuoli**
From extreme environments to sustainable applications: the multifaceted profile of C-phycoerythrin from *Galdieria* spp.

17:30-17:45 **O7: Adinpunya Mitra**
Spatiotemporal Changes in Central Metabolism Control Scent Volatiles Emission in *Morinda citrifolia* Petals

17:45-18:00 **O8: Rohit Ghosh**
Colour Transition Influences Scent Emission in *Gardenia carinata* Flowers

18:00-19:00 **Poster session**

17:00-19:00 **PSE-LCM**

19:30-22:30 **Welcome cocktail**

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Session II Chairs: Simone Moser, Francisco Macías

9:00-9:30 **Invited lecture: Maria José Umbelino Ferreira**
Molecular Derivatization of Plant-Derived Compounds to Reverse Drug Resistance in Cancer

9:30-10:00 **Invited lecture: Francesco Epifano**
Natural Phenylpropanoids, Phytocannabinoids, and Semisynthetic Derivatives as Modulators of the Aryl Hydrocarbon Receptor

10:00-10:15 **O9: Franz Bucar**
Antiadipogenic and prolipolytic coumarins in Greek lemons and their risk of cytochrom P450 enzyme inhibition

10:15-10:30 **O10: Kokoska Ladislav**
Microplate Liquid and Solid Matrix Volatilization Assays for Antimicrobial Susceptibility Testing of Plant-Derived Volatile Agents and Their Combinations in Vapour Phase

10:30-11:30 **Coffee break**

Session III Chairs: Francesco Epifano, Severina Pacifico

11:30-12:00 **Invited lecture: Nunziatina de Tommasi**
From Phytochemistry to Mechanism of Action: Multi-Omics Investigation of Plant-Derived Bioactive Compounds in Prokaryotic Systems

12:00-12:30 **Invited lecture: Evelyn Wolfram**
Phytochemical Analysis and Artificial intelligence in Quality Assurance and Evidence for botanical ingredients in nutrition and healthcare

12:30-12:45 **O11: Francesca Vidotto**
Comparison of traditional and contemporary approaches to identify chemophenetic markers in leaves of *Verbascum* species

12:45-13:00 **O12: Inês da Fonseca Simão**
Metabolite Profiling of the Invasive Aquatic Plant *Pontederia crassipes* Mart.: Insights into Biomass Valorisation

13:00-14:00 **Lunch**

Session IV Chairs: Stefanos Kikionis, Evelyn Wolfram

14:00-14:30 **Invited lecture: Satyajit D Sarker**
A tale of “dead man’s fingers”!

14:30-15:00 **Invited lecture: Bruno Botta**
Challenging organic synthesis inspired by nature: from natural products chemistry to drug discovery

15:00-15:15	O13: Martina Bortolami Phytochemical characterization of volatile and non-volatile fractions of oleogum resins from <i>Commiphora</i> species of Socotra Island
15:15-15:30	O14: Simon Vlad Luca Unlocking Hidden Monoterpene Indole Alkaloids in <i>Picralima nitida</i> through pH-Zone-Refining Centrifugal Partition Chromatography
15:30-15:45	O15: Antonio Francioso Thiocanthal and thiocanthol: a green route for the synthesis and isolation of two novel sulfur-containing anti-inflammatory secoiridoids from extra-virgin olive oil
15:45-16:00	O16: Johannes-Paul Fladerer-Grollitsch Preventive Blood Pressure Control with Oleuropein-Standardized Olive Leaf Extract and Potassium
16:00-16:30	Coffee break + Poster Session
Session V	Chairs: Simon Vlad Luca, Lina Raudone
16:30-17:00	Invited lecture: Dan Staerk Bioactivity-correlated analytical techniques used for studying bioactive drug leads in desert-loving <i>Eremophila</i> spp.
17:00-17:30	Invited lecture: Lutfun Nahar Medicinal Plants as Network-Level Regulators in Neurodegenerative Disorders
17:30-17:45	O17: Angelo Fusco Stem and Root Decoctions of <i>Cucumis prophetarum</i> L. Improve Insulin Sensitivity and Metabolic Dysfunction in Experimental Models of Insulin Resistance and Type 2 Diabetes
17:45-18:00	O18: Pavel Mučaji Wound Healing and Antimicrobial Potential of <i>Agrimonia eupatoria</i> L.
18:00-18:15	O19: Didem Sohretoglu Natural Products in the Search for Novel Anticancer Agents: Bridging Discovery and Mechanistic Insights
18:15-18:30	O20: Marzieh Rahmani Samani Phytochemical Investigation and Anti-inflammatory Activity of Bactiari Savory (<i>Satureja bachtiarica</i> Bunge) Root.
18:30-19:30	Poster session
21:00	Evening activities

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Session VI **Chairs: Monica Scognamiglio, Franz Bucar**

9:00-9:30 **Invited lecture: Francisco A. Macías**
Innovating Sesquiterpene Lactones for Sustainable Weed and Parasitic Plant Management

9:30-10:00 **Invited lecture: Jonathan Gershenzon**
Phytochemicals in the forest: phenolics in conifer-bark beetle interactions

10:00-10:15 **O21: Corinna Urmann**
Bioactivity-Linked Profiling of Plant Extracts with Inhibitory Effects on Photosystem II and Early Seedling Growth

10:15-10:30 **O22: Francisco J. Rodríguez Mejías**
Nuclear Power Plants: For or Against? Analysis of Radiocarbon, Bioactivity, and Metabolic Profile in Crops Near Nuclear Power Plants

10:30-10:45 **O23: Natasha Nonemacher Magni**
Organ-Specific Lipophilic Metabolites in *Euphorbia peplis*: A Coastal Dune Species from Portugal

10:45-11:00 **O24: Carlo Raucci**
Polyketides from *Trichoderma koningii*: structural characterization by NMR and biological evaluation

11:00-11:30 **Coffee break + Poster Session**

Session VII **Chairs: Antonio Fiorentino, Adriana Trifan**

11:30-12:00 **Invited lecture: Antonio Molinaro**
Plant associated bacterial glycans

12:00-12:30 **Invited lecture: Ilaria Chiocchio**
Seeing the whole: Pattern recognition in Plant Metabolomics

12:30-12:45 **O25: Stefan Schwaiger**
Qualitative and quantitative characteristics of domesticated, commercial, and collected European *Gentiana* species

12:45-13:00 **O26: Sylwia Zielinska**
From Plant Biotechnology to Molecular Recognition: Papaveraceae Isoquinoline Alkaloids as Promising Bioactive Phytochemicals

13:00-14:00 **Lunch**

Session VIII	Chairs: Didem Sohretoglu, Francisco J. Rodríguez Mejías
14:00-14:30	Invited lecture: Christian Zidorn Plant chemophenetics – Comparative phytochemistry in the DNA-phylogenetic era
14:30-15:00	Invited lecture: Lina Raudone Seasonal Chemical Signals in <i>Rhododendron tomentosum</i> Harmaja: Phenolic and Terpenic Dynamics in a Coniferous Swamp Forest
15:00-15:15	O27: Rima Konya Konuk Anti-inflammatory Activity-guided Isolation of Phenolic Compounds from <i>Hypericum salsugineum</i> N.Robson & Hub.-Mor.
15:15-15:30	O28: Ceren Sayilgan Activity-guided Isolation of Anti-inflammatory Secondary Metabolites from <i>Thliphthisa antalyensis</i> (Ehrend.) P.Caputo & Del Guacchio
15:30-15:45	S1: Domenico Montesano From Oxidative Distress to Oxidative Eustress: Ozoile® as a Novel Redox Signaling Technology
15:45-16:30	Coffee break + Poster Session
16:30-19:00	Visit to the Royal Palace Garden
21:00-23:00	Social Dinner

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Session IX Chairs: Eleni Skaltsa, Satyajit Sarker

9:00-9:30	Invited lecture: Filomena Conforti Efficacy of Phytocomplexes from Mediterranean Plants as Ectoparasiticides
9:30-9:45	O29: Cerulli Antonietta From Waste to Bioactives: Metabolomics-Driven Valorization of <i>Cynara cardunculus</i> scolymus ('Carciofo di Paestum' PGI and 'Carciofo Bianco di Pertosa') leaf
9:45-10:00	O30: Magdalena Grajzer Chemical composition, oxidative stability and nutraceutical potential of cold-pressed pomegranate, blackcurrant and prickly pear seed oils
10:00-10:15	O31: Roberta Palmieri Life Cycle Assessment of Cascade Grape Pomace Valorisation: Environmental Evaluation of Cellulose Acetate Biofilm Formulations
10:15-10:30	O32: Hamid Mushtaq Cascade Valorisation of Grape Pomace for Nutraceutical Development and Functional Food Applications
10:30-10:45	S2: Daniela Di Matteo Combextracoffee: The combined use of Supercritical fluid and Subcritical Water extraction for spent coffee grounds as sustainable process for developing personal care products
10:45-11:15	Flash presentations
11:15-12:00	Coffee break
12:00-13:00	Closing Ceremony

 Please note that this printed program is subject to minor changes. For the final, detailed program and any last-minute updates, please refer to the conference website.



PSE Meeting

2026

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