



**74th International Congress and Annual Meeting of the
Society for Medicinal Plant and Natural Product Research (GA)**
Jointly with Association Francophone pour l'Enseignement et la Recherche en
Pharmacognosie (AFERP)

Reims, France

August 30 - September 2, 2026

MAIN PROGRAMME

Reims Convention Centre

<https://gareims2026.org/>

MAIN CONGRESS PROGRAMME · DAY 1

MONDAY

31st August 2026



Main Congress Program

Monday 31st August 2026

07:30 - 08:30 REGISTRATION OPEN - MAIN CONGRESS (*Ground Floor*)

08:30 - 10:45 OPENING CEREMONY

(*Royal and Clovis Conference Halls – video broadcast - 2nd Floor*)

10:45 - 11:15 COFFEE BREAK (*2nd Floor*)

11:15 - 12:15 PLENARY LECTURE SESSION

Topic 1. Circular bioeconomy: Towards maximising the value and uses of natural resources

Topic 2. Bio- and chemodiversity of Natural Products: Marine, terrestrial and aerial (micro)organisms

(*Royal and Clovis Conference Halls – video broadcast - 2nd Floor*)

Chairs:

Prof. Alessandra Braca (University of Pisa, Italy)

Dr. Véronique Eparvier (University of Paris-Saclay, France)

11:15 - 11:45 **PL-01** – Dr. Nicola Fuzzati – Chanel, France - Topic n°1

From one crop to multiple ingredients: A circular bioeconomy approach to eco-design cosmetic ingredients

11:45 - 12:15 **PL-02** – Dr. Mirjam Czjzek – Sorbonne University, France - Topic n°2

Exploring the diversity of algal polysaccharides through the catabolic enzymes from marine bacteria

12:15 - 13:45 LUNCH TIME (*1st Floor - NEF*)

13:45 - 14:45 PLENARY LECTURE SESSION

Topic 2. Bio- and chemodiversity of Natural Products: marine, terrestrial and aerial (micro)organisms

Topic 3. Advanced analytical methods and chemo- and bioinformatics for efficient Natural Product discovery and development

(*Royal and Clovis Conference Halls – video broadcast - 2nd Floor*)

Chairs:

Prof. Léandros Skaltsounis (University of Athens, Greece)

Prof. Judith Rollinger (University of Vienna, Austria)

13:45 - 14:15 **PL-03** – Dr. Julien Boccard – University of Geneva, Switzerland - Topic n°3

From data structures to meaningful patterns: A chemometric perspective in plant metabolomics

14:15 - 14:45 **PL-04** – Prof. Maria Halabalaki – University of Athens, Greece - Topic n°2

Metabolomic approaches in food bioactives

14:45 - 14:55 SHORT BREAK

14:55 - 15:55 PARALLEL SESSIONS – SHORT LECTURES

Topic 3. Advanced analytical methods and chemo- and bioinformatics for efficient Natural Product discovery and development

(Royal Conference Hall - 2nd Floor)

Chairs:

Prof. Alessandra Braca (University of Pisa, Italy)

Prof. Louis-Felix Nothias (Université Côte d'Azur, France)

14:55 - 15:10 SL-001 Novel sample preparation for the pre-treated biomass characterization using MALDI-FTICR
S. DEVOS, P. RENQUET, A. LE MASLE, F. BATAILLE, E. NICOL, D. TOUBOUL

15:10 - 15:25 SL-002 Comprehensive evaluation of MS-based metabolite annotation in Natural Products using knowledge graphs
L. LE GRÉGAM, M. PAGNI, F. MEHL, P. ALLARD, L. CAPELLETTI, A. RUTZ, M. FERRAUD, P. SMEROS, A. ZVIAGIN, L-F. NOTHIAS, J-L. WOLFENDER

15:25 - 15:40 SL-003 A chemoinformatic approach to identify lineage-specific and putative novel metabolites in Bignoniaceae
M. SANTOS DO ROSÁRIO, K. KUČEROVÁ, T. HEBRA, A. BOUILLÉ, J.D. SMITH, L. GARCEZ LOHMANN, T. DAMIANI, H. MANNOCHIO-RUSSO, T. PLUSKAL, V. DA SILVA BOLZANI

15:40 - 15:55 SL-004 Drug discovery using native MS: Protein-ligand complexes and beyond
M. LIU, X. XUE, T. MAK, Y. GU, R. QUINN

Topic 2. Bio- and chemodiversity of Natural Products: Marine, terrestrial and aerial (micro)organisms

(Clovis Conference Hall - 2nd Floor)

Chairs:

Dr. Amandine Flourat (URD ABI, AgroParisTech Innovation, France)

Prof. Jakub Piwowarski (Medical University of Warsaw, Poland)

14:55 - 15:10 SL-005 Bioactive, previously unreported highly oxidised marasmane sesquiterpenoids isolated from the Australian Ascomycete fungus *Kretzschmaria* Fries.
L. COE, P. BERNHARDT, J. BLANCHFIELD, K. AGNEW-FRANCIS, J. DE VOSS

15:10 - 15:25 SL-006 Metabolomic assessment of chemical diversity in clinical and environmental *Aspergillus fumigatus* isolates from Switzerland and identification of markers associated with azole resistance
R. MARCELLIN-GROS, N. LECOULTRE, S. SCHNEE, K. GINDRO, D. SANGIARD, A. RIAT, L. MARCOURT, E. QUEIROZ, J. WOLFENDER

15:25 - 15:40 SL-007 Unprecedented natural products discoveries from North and South American Basidiomycetes
B. PETIT, A. JAGELS, I. MICHRAFY, J. NAFIE, G. DYER, E. MARSHALL, C. RIQUELME, J. CABRERA PARDO, J. STROTHER, J. SLOT, S. LOESGEN

15:40 - 15:55 SL-008 Non-targeted metabolomics of wild *Solanum* species for improving crop resilience
K. GILL, W.A. CHAN, K. GARDNER, L. NOLAN

Topic 1. Circular bioeconomy: towards maximising the value and uses of natural resources

(Room 1-2 - 2nd Floor)

Chairs:

Dr. Raimundo Goncalves de Oliveira Junior (University of Paris Cité, France)

Prof. Nikolas Fokialakis (National and Kapodistrian University of Athens, Greece)

14:55 - 15:10 SL-009 From marginal biomass to high-value extracts: A path toward zero-waste bioeconomy
E. STERLIN, M. HAMZAQUI, J. TCHOUMTCHOUA

15:10 - 15:25 SL-010 Valorization of food industry sidestreams: NMR-based multitarget characterization of protein hydrolysates for process monitoring
G. NARDINI, K.H. LILAND, M.S.M. HOLMSEN, K.R. DANKEL, D. EKEBERG, M. NIEMITZ, G.F. PAULI, N.K. AFSETH, K.A. KRISTOFFERSEN

15:25 - 15:40 SL-011 Bioactivity of green extracted borage seed cake: An upcycled source of antioxidant, anti aging and photoprotective agents

D. CHEDID

15:40 - 15:55 SL-012 Beyond polyphenols: Cold-induced bioactive compounds in ice wine grape pomace for skin firmness

L. ZEBIRI, A. CARON, A. MANDEAU, J. LEIGNADIER, J. ATTIA

15:55 - 16:20 COFFEE BREAK (2nd Floor)

16:20 - 17:35 PARALLEL SESSIONS – SHORT LECTURES

Topic 3. Advanced analytical methods and chemo- and bioinformatics for efficient Natural Product discovery and development

(Royal Conference Hall - 2nd Floor)

Chairs:

Dr. Julien Boccard (University of Geneva, Switzerland)

Prof. Krystyna SKALICKA-WOŹNIAK (Medical University of Lublin)

16:20 - 16:35 SL-013 Identification of μ -opioid receptor ligands from *Picralima nitida* using molecular networking and profiling of their G-protein selectivity *via* BRET

D. LOVÁS, O. DURYDIVKA, M. KUCHAR

16:35 - 16:50 SL-014 Phylogeny-guided dereplication of secondary metabolite biosynthetic pathways encoded in understudied fungal species reveals an extensive hidden chemical diversity

M. BOLLLOT, K. BHATT, L. GIBOT-LECLERC, M. MILLOT, L. MAMBU, J. COLLEMARE

16:50 - 17:05 SL-015 IMPulator: Integrated computational tool to evaluate the genuine lead potential of Natural Products

Y.R. DASARI REDDY, C. ABAD-ZAPATERO, G. PAULI

17:05 - 17:20 SL-016 Universal semi-quantitation of major plant extract constituents by UHPLC-HRMS-CAD employing inverse post-column gradient compensation

A. ZVIAGIN, J. ACHKHANIAN, L. LE GREGAM, J. HUBERT, R. DE VAUMAS, L. LOFFREDO, S. GAFNER, J. HERITIER, D. CALLAHAN, A. RUTZ, A. KOTLAND, Y. DAALI, J.-L. WOLFENDER

17:20 - 17:35 SL-017 Exploration of Alchornea cordifolia leaves' extract to identify new chemical leads against *Toxoplasma gondii*

G. DEGOTTE, K. TUO, S. REMY, J. CORDONNIER, R. JAMBOU, I. VILLENA, V. GREIGERT

16:20 - 17:35 PARALLEL SESSIONS – SHORT LECTURES

Topic 2. Bio- and chemodiversity of Natural Products: marine, terrestrial and aerial (micro)organisms

(Clovis Conference Hall - 2nd Floor)

Chairs:

Dr. Mirjam Czjzek (Sorbonne University, France)

Prof. Mehdi Beniddir (University of Paris-Saclay, France)

16:20 - 16:35 SL-018 CoreSeedMet: Towards the identification of a conserved specialized metabolome in seeds

A. LE CABEC, T. HEBRA, F. PERREAU, S. BOUTET, T. PLUSKAL, M. CORSO

16:35 - 16:50 SL-019 Microbial symbiont of stingless bee produces potent anti-pathogen griseorhodins

G. DE PAULA, W. MELO, J. AMARAL, M. PUPO

16:50 - 17:05 SL-020 Phytotherapy meets One Health: *Plectranthus spp.* as a sustainable strategy against multidrug resistance

P. RIJO

17:05 - 17:20 SL-021 Investigating genetic and environmental influences on the phytochemical composition and biofilm inhibition in *Drosera rotundifolia*

H. KIENINGER, M. ZOERNER, M. SCHNITTLER, S. GUENTHER, C. SCHULZE

17:20 - 17:35 SL-022 Exploring carotenoid diversity across natural matrices to modulate the virulence of *Pseudomonas aeruginosa* PAO1

J. CARETTE, A. DELACUVELLERIE, E. BOSSIROY, A. AVANZATO, A. LOURTIE, G. CAULIER, T. RASARMIRAVAKA, M. EL JAZIRI, P. DUEZ, R. WATTIEZ, A. NACHTERGAEEL

16:20 - 16:35 PARALLEL SESSIONS – SHORT LECTURES

Topic 1. Circular bioeconomy: Towards maximising the value and uses of natural resources

(Room 1-2 - 2nd Floor)

Chair:

Dr. Emilie Stierlin (Celabor, Belgium)

16:20 - 16:35 SL-024 Sustainable valorization of *Phaseolus vulgaris* L. pod by-products: Extraction optimization and antidiabetic potential

M. TUSEEF, L. LELA, V. CARLUCCI, E. ABBATE, F. SANTOPIETRO, L. MILELLA

16:35 - 17:35 AFERP/ECRW AWARD SHORT LECTURES

(Room 1-2 - 2nd Floor)

Chairs:

Prof. Olivier Grovel (University of Nantes, France)

Dr. Emerson Ferreira Queiroz (University of Geneva, Switzerland)

16:35 - 16:50 SL-025 Unveiling the anti-Mycobacterium secrets of ancient remedies: advanced HPLC-HRMS/MS and 2D NMR approaches for a modern understanding

C. BRAILLON, A. LANNOY, R. JANEL-BINTZ, F. BANERES-ROQUET, L. KREMER, V. PITCHON, P. FECHTER, C. VONTHRON SENECHAU, S. ORTIZ

16:50 - 17:05 SL-026 Tetracyclic quinones from the bark of *Fissistigma litseifolium* (King) Merr: identification, elucidation and synthesis

I. RAMON MARTINEZ, C. APEL, H. NEDEV, B. IORGA, S. DESRAT, F. ROUSSI

17:05 - 17:20 SL-ECRW1 ECRW award short lecture

17:20 - 17:35 SL-ECRW2 ECRW award short lecture

17:05 - 19:05 THE NOBS INITIATIVE WORKSHOP

(Clovis Conference Hall - 2nd Floor)

17:35 - 19:05 SCIENCE PITCH SLAM EVENT

(Room 1-2 - 2nd Floor)

13:00 - 17:00 REGULATORY AFFAIRS WORKSHOP - THE FUTURE OF HERBAL MEDICINAL PRODUCTS

(Room 3-4 - 2nd Floor)

17:00 - 18:00 PHARMACOGNOSY PHARMACEUTICAL BIOLOGY - PHYTOPHARMACEUTICALS - QUO VADIS?

(Room 3-4 - 2nd Floor)

17:35 - 19:05 POSTER SESSION I & WINE and CHEESE

("Le Millésime" - 2nd Floor)

19:30 - 22:30 SAINT-REMI MUSEUM VISIT & COCKTAIL

MAIN CONGRESS PROGRAMME · DAY 2

TUESDAY



01st September 2026



Main Congress Program

Tuesday 01st September 2026

07:30 - 08:30 GA INDUSTRY NETWORK HUB

(Room 1-2 - 2nd Floor)

08:30 - 08:40 ANNOUNCEMENT *(Royal and Clovis Conference Halls – video broadcast)*

08:40 - 09:40 PLENARY LECTURE SESSION

Topic 4. AI-driven Natural Product research: potential, pitfalls and future perspectives

Topic 5. Chemical ecology and holobiont interactions

(Royal and Clovis Conference Halls – video broadcast - 2nd Floor)

Chairs:

Dr. Julien Cordonnier (University of Reims Champagne-Ardenne, France)

Prof. Jean-Luc Wolfender (University of Geneva, Switzerland)

08:40 - 09:10 PL-05 – Dr. Jonathan Bisson – Collaborative Drug Discovery, USA - Topic n°4

AI: Hype(r)fiction or (r)evolution

09:10 - 09:40 PL-06 – Dr. Véronique Eparvier – ICSN, CNRS, University of Paris-Saclay, France - Topic n°5

Chemical ecology and holobiont interactions in plant and insect systems: Exploration of microbial resources and development of integrative methodologies

09:40 - 10:05 COFFEE BREAK *(2nd Floor)*

10:05 - 11:05 PLENARY LECTURE SESSION

Topic 6. Pharmacology and safety of herbal medicines

Topic 8. Pharmacological and biological activities of Natural Products: Drug discovery (clinical, *in vivo*, *in vitro* and *in silico* approaches)

(Royal and Clovis Conference Halls – video broadcast - 2nd Floor)

Chairs:

Prof. Michael Heinrich (University College London, United Kingdom)

Prof. Maria Halabalaki (University of Athens, Greece)

10:05 - 10:35 PL-07 – Prof. Rudolf Bauer – University of Vienna, Austria - Topic n°6

Considerations for evaluating activity and safety of herbal medicines

10:35 - 11:05 PL-08 – Prof. Judith Rollinger – University of Vienna, Austria - Topic n°8

Preparing the mind: Data integrity and innovation in Natural Product drug discovery

11:05 - 11:15 SHORT BREAK

11:15 - 12:15 PARALLEL SESSIONS – SHORT LECTURES

Topic 6. Pharmacology and safety of herbal medicines – Botanical Safety Consortium

(Royal Conference Hall - 2nd Floor)

Chairs:

Dr. Olaf Kelber (Bayer, Germany)

Dr. Stefan Gafner (American Botanical Council, USA)

11:15 - 11:30 SL-027 Ethnomedicinal approaches to childhood diarrhea in Sub-Saharan Africa: A systematic review
S. CHAUKE, I. SAGBO, C. ATEBA, T. NDHLOVU

11:30 - 11:45 SL-028 Herb-drug interaction potential of *Salacia reticulata* with Sitagliptin: CYP450 Inhibition, pharmacokinetics and transcriptomic modulation
S. SARKAR

11:45 - 12:00 SL-029 Ashwagandha: Evaluating its safety in human consumption
T. BRENDLER, J. BARNES

12:00 - 12:15 SL-030 Medicinal plants and herbal medicines for gynaecological complaints: A systematic review of the current clinical efficacy and safety evidence
B. JALIL, E. KO, M. HEINRICH

11:15 - 12:15 PARALLEL SESSIONS – SHORT LECTURES

Topic 5. Chemical ecology and holobiont interactions

(Clovis Conference Hall - 2nd Floor)

Chairs:

Prof. Olivier Grovel (University of Nantes, France)

Dr. Julien Antih (University of Montpellier, France)

11:15 - 11:30 SL-031 LC-MS/MS-Based metabolomics uncovers host influence on the chemistry of a parasitic plant
M. TEDESCO HUFNAGEL, B. DOIMI ORTOLAN, G. CARDOSO TÁPIAS CECCANTINI, C. ALEXANDRE CAROLLO, F. MACEDO ALVES, D. DEMARQUE

11:30 - 11:45 SL-032 Unlocking cryptic specialized metabolites in marine fungi through eco-inspired multicultures
C. MARIVAIN, N. RUIZ, L. KOLYPCZUK, T. ROBOU DU PONT, A. MICHAUD, L. MESLET-CLADIÈRE, D. PASSERINI, O. GROVEL

11:45 - 12:00 SL-033 Biocommunicators: A relational perspective for the future of Natural Products research
R. LACRET

12:00 - 12:15 SL-034 Soil microbiome impact on drought resilience and medicinal metabolite accumulation in *Lessertia frutescens* (cancer bush)
T. MASETLANA

11:15 - 12:15 PARALLEL SESSIONS – SHORT LECTURES

Topic 4. AI-driven Natural Product research: Potential, pitfalls and future perspectives

(Room 1-2 - 2nd Floor)

Chairs:

Dr. Jonathan Bisson (Collaborative Drug Discovery, USA)

Dr. Julien Cordonnier (University of Reims Champagne-Ardenne, France)

11:15 - 11:30 SL-035 Bioactive peptides from edible root vegetables: AI-guided discovery
K. PUROHIT, F. PLISSON, M. LOW, E. HAYES, A. SUNNA

11:30 - 11:45 SL-036 Application of generative AI to molecules from *Capparis cartilaginea* Decne to propose novel candidates for drug discovery and development
A.C. DE JESUS SILVA, M. PEGRUCCI BARCELOS, B. ALSHARIF, F. BOYLAN, L.I. DA SILVA HAGE-MELIM

11:45 - 12:00 SL-037 Selection of drug combinations based on predicted interactions with human proteins - exemplified for SARS-Cov-2 proteins
A. SHCHERBAKOVA, B. MERZENICH, G. ULRICH-MERZENICH

12:00 - 12:15 SL-038 Artificial intelligence to rapidly develop, improve, or expand use of natural ingredients
P. SPAGNUOLO, B. JOHNSTON, K. ENGEL, C. SUAREZ-RIZZO, R. ROTH-EHRANG

12:15 - 13:45 LUNCH TIME (1st Floor - NEF)

13:45 - 14:15 PLENARY LECTURE SESSION

Topic 10. Herbal Medicinal Products and quality control

(Royal and Clovis Conference Halls – video broadcast - 2nd Floor)

Chair:

Prof. Patricia Rijo (University of Lisbon, Portugal)

13:45 - 14:15 PL-09 – Prof. Anna Rita Bilia – University of Florence, Italy - Topic n°10

Quality control of Herbal Medicinal Products: Between regulation and innovation

14:15 - 14:25 SHORT BREAK

14:25 - 15:25 PARALLEL SESSIONS – SHORT LECTURES

Topic 8. Pharmacological and biological activities of Natural Products: Drug discovery (clinical, *in vivo*, *in vitro* and *in silico* approaches)

(Royal Conference Hall - 2nd Floor)

Chairs:

Dr. Marina Kritsanida (Université Paris Cité, France)

Dr. Fabio Boylan (Trinity College Dublin, Ireland)

14:25 - 14:40 SL-039 From molecule to matrix: Reconsidering psilocybin mushrooms as multi-component therapeutic systems

T. DELGODA, C. SAMS, K. FOSTER, S. DANIEL, W. DE LA HAYE, B. M. THANKAPPAN, W. IRVINE

14:40 - 14:55 SL-040 *In vivo* anti-obesity efficacy of *Sparassis crispa* extract in high-fat diet-induced obese mice and activity-guided identification of sparylade B

Y. PARK, K.T. LEE, A. NAM, Y.J. JEONG, J.M. WOO, J.B. JEONG

14:55 - 15:10 SL-041 Investigating the therapeutic potential of *Cannabis sativa*-derived cannabinoids for targeting PTP1B in obesity and diabetes

P. FRANS, L. MKABAYI, B.I. PLETSCHKE, C.L. FROST

15:10 - 15:25 SL-042 Development of a multi-targeted herbal formulation with immunomodulatory and antioxidant functions for cancer adjuvant therapy

Y.-C. JUANG, SHIH-JIE, L.-H. WANG

14:25 - 15:25 PARALLEL SESSIONS – SHORT LECTURES

Topic 9. Green chemistry, biotechnology and bio-inspired approaches for sustainable production processes: Innovations for high-value products

(Clovis Conference Hall - 2nd Floor)

Chairs:

Dr. Siau Hui Mah (Taylor's University, Malaysia)

Dr. Evelyn Wolfram (Zurich University of Applied Sciences, Switzerland)

14:25 - 14:40 SL-043 Unusual stilbenes-derived scaffolds from solvent-free Pechmann condensation with potent anti-methicillin-resistant *Staphylococcus aureus* activity

L. MARCOURT, A. PEROZZO, A. LUSCHER, A. KOVAL, V. KATANAIEV, A. NUNES DE OLIVEIRA, M. ANZOLETTI, A. BORY, J. WOLFENDER, T. KOHLER, G. MASSIOT, E. FERREIRA QUEIROZ

14:40 - 14:55 SL-044 Phytostilbenes: Bioproduction and functionalization toward potent anti-inflammatory agents

A. FLOURAT, V. LECLERC, E. THIÉBAULT, P. YANHOUI-TOKANNOU, M. GRY, S. BLAISE, F. ALLAIS, E. COUROT, B. ROMIER

14:55 - 15:10 SL-045 From hydrotropes to deep eutectic solvents: Exploring new strategies for polyphenol solubilization and extraction

E. HAMONOU, S. ANTONCZAK, N. PAPAÏCONOMOU, W. KUNZ

15:10 - 15:25 SL-046 From a common garden plant to high-value bioactive compounds: Sustainable valorization of *Crassula ovata*

K. RAZAFITSALAMA, C. SAYAGH, E. RAVALISON ANDRIANARISON, L. VOUTQUENNE-NAZABADIOKO

14:25 - 15:25 PARALLEL SESSIONS – SHORT LECTURES

Topic 6. Pharmacology and safety of herbal medicines

(Room 1-2 - 2nd Floor)

Chairs:

Dr. Bernd Roether (Bionorica, Germany)

Prof. Funda Yalcin (Hacettepe University, Turkey)

14:25 - 14:40 SL-047 Metabolomic analysis and toxicity study of *Ocotea guianensis* Aubl. (fey darjan) leaf preparations used during pregnancy by Women in French Guiana

M. BARBARA, E. HOUEL, C. ROHEE, A. RODRIGUES, D. STIEN, A. KNITTEL-OBRECHT, P. VILLA, G. FORSANS, C. BASURKO, J. LANGRAND, C. VALENCIA-SCHMITT, G. ODONNE

14:40 - 14:55 SL-048 Ethnopharmacological study and evaluation of the antibacterial potential of nine medicinal plants from Mayotte

T. TAM-HUI, F. CHASSAGNE, M. HADDAD, C. BERTRAND

14:55 - 15:10 SL-049 Co-medication in geriatric patients taking Herbal Medicinal Products - Data from the PhytoVIS study

J. WICKENHÄUSER, C.M. RUDSCHUCK, O. KELBER, K. KRAFT

15:10 - 15:25 SL-050 Phytochemical and functional influences of leaf senescence in *Carica papaya* for ethnopharmacological use

C. ELVERT, S. NICOLAY, E. CÖMEN, Z. RAO, O. RANAYAKE, I. SANCHEZ-VARGAS, R.M. RISPOLI, C. DIELEMAN, F. GSALLER, A. SILLER, C. KARG, S. MARZOCCO, R. PERERA, R. DELGODA, A. KOEBERLE, F. HAMMERLE, A. ADEPITI, C. GRÜNDEMANN, S. MOSER

15:25 - 15:50 COFFEE BREAK (2nd Floor)

15:50 - 16:35 PARALLEL SESSIONS – SHORT LECTURES

Topic 8. Pharmacological and biological activities of Natural Products: Drug discovery (clinical, *in vivo*, *in vitro* and *in silico* approaches)

(Royal Conference Hall - 2nd Floor)

Chairs:

Dr. Aurélie Urbain (University of Strasbourg, France)

Prof. Sofia Mitakou (University of Athens, Greece)

15:50 - 16:05 SL-051 From Nature to bench and bedside: Identifying potent modulators of cytoprotective proteostatic and antioxidant pathways activity in Natural Products

D. GIANNIOU, I. TROUGAKOS

16:05 - 16:20 SL-052 Zebrafish metabolomics as a window into Natural Products' bioactivity

E. MIKROPOULOU, N. KOSHEVA, N. XENOU, D. BEIS, W. KUKUŁA-KOCH, M. HALABALAKI

16:20 - 16:35 SL-053 When extracellular vesicles meet cardenolides: Towards developing a target-orientated drug delivery system

M. DORFNER, A. MIFKA, R. MAIA DE PÁDUA, I. THAÍS DA SILVA, I. ZANELLA GUTERRES, L. SANA, G. FUHRMANN, J. MUNKERT

15:50 - 16:35 PARALLEL SESSIONS – SHORT LECTURES

Topic 9. Green chemistry, biotechnology and bio-inspired approaches for sustainable production processes: Innovations for high-value products

(Clovis Conference Hall - 2nd Floor)

Chairs:

Prof. Christine Gerardin (University of Lorraine, France)

Dr. Simon Vlad-Luca (University of Orleans, France)

15:50 - 16:05 SL-054 From hop waste to bioactives: Valorization of an industrial side stream by a foam fractionation technique

H.M. RIEPL, L. SAMMET, C. URMANN

16:05 - 16:20 SL-055 Hansen solubility parameters and COSMO-RS guiding green extraction of cosmetic stilbenes from grapevine by-products

S. RAGHEED GEORGES, E. BUCHY, A. FLOURAT, F. ALLAIS, J. RENAULT

16:20 - 16:35 SL-056 Green extraction, fractionation and isolation of bioactive compounds from the leaves of *Olea europaea* using renewable solvents

C. NÈVE, S. BETEINAKIS, K. MAVREAS, D. MICHAILIDIS, P. STATHOPOULOS, J. RENAULT, L. SKALTSOUNIS

15:50 - 16:35 PARALLEL SESSIONS – SHORT LECTURES

Topic 6. Pharmacology and safety of herbal medicines

(Room 1-2 - 2nd Floor)

Chairs:

Prof. Rachel Mata (Central University of Venezuela, Venezuela)

Prof. Rudolf Bauer (University of Vienna, Austria)

15:50 - 16:05 SL-057 From Natural Products to reactive metabolites: Combined bio-electrochemical prediction of furanic compounds' toxicity

I. AYADEN, C. BOUZIDI, T. GASLONDE, J. VIRET-PERARD, C. HOFFMANN, X. CACHET

16:05 - 16:20 SL-058 From bench to bedside: Translational pathways in Natural Product research

D. CSUPOR, B. TÓTH, T. KISS, B. CSUPOR-LÖFFLER

16:20 - 16:35 SL-059 Characterization of South African psycho-active folk medicine *Bersama lucens* (Hochst.) Szyszyl and *Ocotea bullata* (Burch.) Baill. by ultra-high-performance liquid chromatography

R.M. LEKHOOA, C. MOOKI, A. AREMU

16:35 - 16:45 SHORT BREAK

16:45 - 17:45 GA MEMBERS' MEETING

(Clovis Conference Hall - 2nd Floor)

17:45 - 18:45 GA INDUSTRY WORKING GROUP MEETING

(Clovis Conference Hall - 2nd Floor)

16:45 - 18:45 POSTER SESSION II & WINE and CHEESE

(“Le Millésime” - 2nd Floor)

19:30 - 02:00 CAVEAU CASTELNAU GALA DINNER

MAIN CONGRESS PROGRAMME · DAY 3

WEDNESDAY

2nd September 2026



Main Congress Program

Wednesday 2nd September 2026

07:30 - 08:30 CPC & CCC ROUND TABLE

(Room 1-2 - 2nd Floor)

08:30 - 08:40 **ANNOUNCEMENT** (Royal and Clovis Conference Halls – video broadcast)

08:40 - 09:40 PLENARY LECTURE SESSION

Topic 1. Circular bioeconomy: Towards maximising the value and uses of natural resources

Topic 10. Herbal Medicinal Products and quality control

(Royal and Clovis Conference Halls – video broadcast - 2nd Floor)

Chairs:

Dr. Olaf Kelber (Bayer, Germany)

Dr. David Touboul (LCM, Ecole Polytechnique, France)

08:40 - 09:10 **PL-10** – Dr. Stefan Gafner – American Botanical Council, USA - Topic n°10

Authenticity under siege: Fifteen years of combatting botanical ingredient fraud

09:10 - 09:40 **PL-11** – Prof. Franck-Dominique Vivien – University of Reims Champagne-Ardenne, France - Topic n°1

The bioeconomy of industrial hemp: Between ecological transition promises and structural tensions

09:40 - 10:05 **COFFEE BREAK** (2nd Floor)

10:05 - 11:05 PARALLEL SESSIONS – SHORT LECTURES

Topic 10. Herbal Medicinal Products and quality control

(Royal Conference Hall - 2nd Floor)

Chairs:

Prof. Michel Frederich (University of Liège, Belgium)

Dr. Emerson Ferreira Queiroz (University of Geneva, Switzerland)

10:05 - 10:20 **SL-060** There is no caffeine in damiana - Filter bubbles and echo chambers in scientific referencing
G. PAULLI, S. CHEN, D. REBOLLAR RAMOS, S. CRISTIANIS, A. HERNANDEZ-OCHOA, T. BRENDLER

10:20 - 10:35 **SL-061** Bayesian statistics: A framework for quantifying uncertainty in qualitative botanical identification
S. SUDBERG

10:35 - 10:50 **SL-062** Advancing herbal medicine: Extent similarity assessment for a quantitative fingerprinting quality control approach of Herbal Medicinal Products
X. WU, E. PFERSCHY-WENZIG, T. MADL, S. AATZ, O. KELBER, R. BAUER

10:50 - 11:05 **SL-063** Advanced multi-platform analytical workflows for *Cannabis sativa* L. quality assessment: Decoding chemical diversity across chemotypes
P.S. TZIMAS, S. BETEINAKIS, A.N. MARTINI, I. DELI, V. PAPAIOANNOU, E.A. PETRAKIS, P.T. PAPASTYLIANOU, M. PAPAFOTIOU, L.A. SKALTSOUNIS, M. HALABALAKI

10:05 - 11:05 PARALLEL SESSIONS – SHORT LECTURES

Topic 7. Functional foods, cosmetics and nutraceuticals

(Clovis Conference Hall - 2nd Floor)

Chairs:

Dr. Antigoni Cheilari (University of Athens, Greece)

Dr. Marine Canton (University of Côte d'Azur, France)

10:05 - 10:20 SL-064 Rapid authentication of Polynesian copra oils and monoi de Tahiti AO by mid-infrared spectroscopy coupled with chemometrics for adulteration detection

R. FAES, H. CHANT, E. POAREU, J. BIAU, T. LEHARTEL, S. SOULET, T. TEAI

10:20 - 10:35 SL-065 Characterization and digestive stability of *Achillea erba-rotta* subsp. *moschata* extract from the Alps and its effects on *Dictyostelium discoideum*

A. MARENGO, C. CAGLIERO, B. SGORBINI, G. MENZIO, C.M. BERTEA, C. PANUZZO, S. ROCCO, P. RUBIOLO

10:35 - 10:50 SL-066 Dissecting the phenotypic structure of antioxidant and flavonoid traits enables targeted selection of elite *Agastache* accessions

J. LEE, S. LEE, J. KANG, E. KIM, S. LEE

10:50 - 11:05 SL-067 From plant to product: scalable green chemistry approaches for industrial botanical extraction

S. JACKSON, P. GOI

10:05 - 11:05 PARALLEL SESSIONS – SHORT LECTURES

Topic 11. One Health and veterinary phytomedicine

(Room 1-2 - 2nd Floor)

Chairs:

Dr. Marta Mendel (Warsaw University of Life Sciences, Poland)

Prof. Michael Walkenhorst (Research Institute of Organic Agriculture, FiBL, Switzerland)

10:05 - 10:20 SL-068 Towards a simplified regulatory framework for Herbal Veterinary Medicinal Products in Europe

C. BILGI, M. WALKENHORST, S. BARRETEAU

10:20 - 10:35 SL-069 Trees as natural shields: Protecting grazing livestock from insects

T. SCHLITTENLACHER, M. WALKENHORST, S. EGLI, C. BONNEFOUS, V. MAURER

10:35 - 10:50 SL-070 Identification of compounds and bioactivity of *Kalanchoe gunnii* against *Staphylococcus aureus* reference strain and isolates from bovine mastitis cases

E. OGBUADIKE, S.M. NKADIMENG, F.N. MAKHUBU, C. IGWE, J.P. DZOYEM, N.K. KHOROMMBI, V. MAHARAJ, D.N. QEKWANA, I. PETZER, L. MCGAW

10:50 - 11:05 SL-071 Indigenous medicinal plants for livestock health in Tsheseng and Namahadi communities in QwaQwa, Free State Province, South Africa

M. MAKHUVHA, P. MOHLAKE, T. MPOLOKENG, N. MSIMANGO, S. AMOO, O. AREMU, N. MASONDO

11:05 - 11:15 SHORT BREAK

11:15 - 12:15 PARALLEL SESSIONS – SHORT LECTURES

Topic 10. Herbal Medicinal Products and quality control

(Royal Conference Hall - 2nd Floor)

Chairs:

Prof. Pierre Champy (University of Paris-Saclay, France)

Prof. Nikolas Fokialakis (National and Kapodistrian University of Athens, Greece)

11:15 - 11:30 SL-072 Essential oil adulteration and its impact on efficacy and safety: A critical review of peppermint, lavender, and bergamot oils

N. ORHAN, D.T. CARTER, D.I. SAAVEDRA, P. SATYAL, N. STEVENS, S. GAFNER, C. BASCOUL

11:30 - 11:45 SL-073 Green and fast supercritical fluid methods to extract, analyse, and isolate Natural Products: A case study on *Inonotus obliquus* (chaga)

K. KAPP, J. GAFFRILLER, B. KIRCHWEGGER, J.M. ROLLINGER, U. GRIENKE

11:45 - 12:00 SL-074 Quality control frameworks for *Epilobium* extracts as phytotherapy candidates against viral respiratory infections

K. UMINSKA, V. GEORGIYANTS, L. IVANAUSKAS, M. EL-SHAZLY, K. DELICA-BALAGOT, Y. CHEN, T. HWANG, O. MYKHAILENKO, M. KORINEK

12:00 - 12:15 SL-075 Traditional medicinal plants for malaria treatment in Uganda's West Nile sub-region: An ethnobotanical survey

B. OLOYA, B. AKWONGO, M. ANDAMA, P. AMAGU, M. CANDIA, P. TABAN, R.A. ANYASE, E.A. OKELLO, G. ANYWAR, J. SPATZ

11:15 - 12:15 PARALLEL SESSIONS – SHORT LECTURES

Topic 7. Functional foods, cosmetics and nutraceuticals

(Clovis Conference Hall - 2nd Floor)

Chairs:

Prof. So-Young Park (Dankook University, South Korea)

Dr. Simon Remy (University of Reims Champagne-Ardenne, France)

11:15 - 11:30 SL-076 An underrated category of Natural Products: Clinical evidence for three probiotic strains

M. VENHERM, O. KELBER, J. WAECHTER

11:30 - 11:45 SL-077 Effect of propolis and gold supplementation on the antimicrobial and antibiofilm activity of Centauri® Honey

V. ISCA, M. SEQUEIRA, I. SARAIVA, R. ANDRÉ, P. RIJO

11:45 - 12:00 SL-078 Multi-functional biological profiling and chemical characterization of rambutan shell extracts: A comprehensive approach to novel nutraceuticals.

C. BARBA, A. MAYORGA-RAMOS, J. ZÚÑIGA-MIRANDA, R. GONZALEZ-PASTOR, A.B. PEÑAHERRERA-PAZMIÑO, A. VITERI, E. TEJERA, L. GUAMAN

12:00 - 12:15 SL-079 SAFFROSENSE: Saffron-derived multifunctional active for skin care - *in vitro* to clinical proof

C. SPAGGIARI, G. COSTANTINO

11:15 - 12:15 PARALLEL SESSIONS – SHORT LECTURES

Topic 8. Pharmacological and biological activities of Natural Products: Drug discovery (clinical, *in vivo*, *in vitro* and *in silico* approaches)

(Room 1-2 - 2nd Floor)

Chairs:

Prof. Phila Bianchini (University of French Polynesia, France)

Prof. Michal Tomczyk (Medical University of Białystok, Poland)

11:15 - 11:30 SL-080 Isolation of a new bis-indole N-oxide as a promising cytotoxic agent against leukemia from *V. minor* L.

S.W.A. BOKHARI, S. HASANOVA, J. KUNES, R. HAVELEK, J. CHLEBEK

11:30 - 11:45 SL-081 Ammoresinol from *Ferula ammoniacum* inhibits listeria monocytogenes *via* cell wall disruption and virulence modulation revealed by integrated omics

G. DONADIO, R. NOCERA, V. PARISI, M. KHARATHA, R. ESPOSITO, F. DAL PIAZ, N. DE TOMMASI

11:45 - 12:00 SL-082 *In silico* identification of natural compounds as potential dual inhibitors of the PI3K/mTOR signaling pathway

S.R. OSMANLIOGLU DAG

12:00 - 12:15 SL-083 Multi-target anticancer potential of *Citrus medica* flavonoids against breast cancer: Integrated *in silico*, molecular dynamics and experimental validation

P. UNIYAL, A. GAURAV

12:15 - 13:45 LUNCH TIME (1st Floor - NEF)

13:45 - 14:30 PARALLEL SESSIONS – SHORT LECTURES

Topic 12. Natural Products facing climate change: Challenges and responsibilities

(Royal Conference Hall - 2nd Floor)

Chairs:

Dr. Emeline Houel (LBBM, CNRS, France)

Dr. Pauline Blyweert (University of Reims Champagne-Ardenne, France)

13:45 - 14:00 SL-084 Antarctic fungi under climate change: Temperature-driven metabolic reprogramming in *Antarctomyces psychrotrophicus*

G. DOS SANTOS, D. BARRETO, L.H. ROSA, P.R. TEIXEIRA, L. LOTUFO, J. WOLFENDER, E.F. QUEIROZ, I. CASTRO-GAMBOA

14:00 - 14:15 SL-085 Impact of climate change on the metabolome and the anti-inflammatory activity of *Coriandrum sativum* L.

W. KAZÖNE, F. KAATEU, V. MEDEVIELLE, C. MAIREY, M. MATSUI, C. ANTHEAUME, J. SCHMITT, T. CROSSAY, A. LEOPOLD, C. MARCHAND, N. LEBOUVIER

14:15 - 14:30 SL-086 Understanding shifting foundations for the sustainable use of medicinal plants - a phytochemical case study using *Crocus sativus*

O. MYKHAILENKO, M. HEINRICH

13:45 - 14:30 PARALLEL SESSIONS – SHORT LECTURES

Topic 8. Pharmacological and biological activities of Natural Products: Drug discovery (clinical, *in vivo*, *in vitro* and *in silico* approaches)

(Clovis Conference Hall - 2nd Floor)

Chairs:

Prof. Clara Lau (University of Hong Kong, China)

Prof. Sevser Sahpaz (University of Lille, France)

13:45 - 14:00 SL-087 Aminosteroids from Apocynaceae and Buxaceae and their antiprotozoal activity: Structural diversity and structure-activity relationships

J.W. MUKAVI, L. SCHÄFER, L.U. SZABÓ, C.O. NNADI, J.B. ALTHAUS, T.J. SCHMIDT

14:00 - 14:15 SL-088 To be defined

14:15 - 14:30 SL-089 Multi-level residual complexity analysis reveals origin of nanomolar antiviral bioactives of “isoquercitrin”

D. REBOLLAR-RAMOS, A.V. ROY, J.B. FRIESEN, G. HARRIS, S. CHEN, M. CHAN, S. HE, G. LIU, W. ZHU, L. BANADYGA, J. MCALPINE, M. CHRÉTIEN, M. MBIKAY, G.F. PAULI

13:45 - 14:30 PARALLEL SESSIONS – SHORT LECTURES

Topic 9. Green chemistry, biotechnology and bio-inspired approaches for sustainable production processes: Innovations for high-value products

(Room 1-2 - 2nd Floor)

Chairs:

Prof. Christine Gerardin (University of Lorraine, France)

Prof. Philippe Gerardin (University of Lorraine, France)

13:45 - 14:00 SL-090 Establishing a functional ligand fishing platform: Enzymatic validation of α -glucosidase-functionalized magnetic particles

G.P. ROSA, M.C. BARRETO, A.M.L. SECA

14:00 - 14:15 SL-091 How the rotatory geponic system impacts the plant metabolic responses?

O. BUSONT, D. DA SILVA, A. ROBERT-HAZOTTE, A. THOMAS, E. DESTANDAU

14:15 - 14:30 SL-092 Toward understanding the biosynthesis of dimeric sesquiterpene lactones in *Artemisia* and engineering their sustainable production in yeast

J. REINHARDT, W. DUCHEMIN, R. TEUFEL, J. WENG

14:30 - 14:40 SHORT BREAK

14:40 - 15:55 PARALLEL SESSIONS – SHORT LECTURES

Topic 3. Advanced analytical methods and chemo- and bioinformatics for efficient Natural Product discovery and development

(Royal Conference Hall - 2nd Floor)

Chairs:

Dr. Luminita Duma (University of Reims Champagne-Ardenne, France)

Prof. Guido Pauli (University of Illinois Chicago, USA)

14:40 - 14:55 SL-093 Integrated NMR-based metabolomics for characterization and authentication purposes with quantitative insights in natural polymers

S. BETEINAKIS, E.V. MIKROPOULOU, D. MICHAILIDIS, E. AKRIVOUSI, E. KALPOUTZAKIS, J. RENAULT, L.A. SKALTSOUNIS, P. LAMEIRAS, M. HALABALAKI

14:55 - 15:10 SL-094 NMR dereplication and quantification of tyroscherin analogues mixture, defense metabolites produced by a termite-associated fungi

R. WISSON, M. PINSARD, V. EPARVIER, D. TOUBOUL, C. LUCAS-TORRES

15:10 - 15:25 SL-095 Automated NMR workflow for the identification and quantification of compounds in complex mixtures

A. BUDAI, L. LENEN, J. CORDONNIER, J.M. NUZILLARD, P. LAMEIRAS

15:25 - 15:40 SL-096 Mining rare monoterpene indole alkaloids from the seeds of *Picralima nitida* (Akuamma) through pH-zone refining centrifugal partition chromatography

S.-V. LUCA, J. NOEL-TORRES, J.B. FRIESEN, G. HARRIS, A.P. RILEY, G.A. CORDELL, G.F. PAULI

15:40 - 15:55 SL-097 Quantitative analyses of volatile organic compounds emitted in fields: lavandin application

A. NOËL, C. BRINGER-GUERIN, P. ROCHE, M.-C. PERON, A. DEGENHARDT, E. ANGELINI, X. FERNANDEZ

14:40 - 15:55 PARALLEL SESSIONS – SHORT LECTURES

Topic 8. Pharmacological and biological activities of Natural Products: Drug discovery (clinical, *in vivo*, *in vitro* and *in silico* approaches)

(Clovis Conference Hall - 2nd Floor)

Chairs:

Prof. Luiz Carlos Klein-Junior (University of the Itajaí Valley, Brazil)

Dr. Séverine Derbre (University of Angers, France)

14:40 - 14:55 SL-098 Pharmacokinetic analysis of *Pelargonium sidoides* root extract EPs® 7630 in the rat

M. SCHMITT, V. STEINER, S. KAISER, H. SCHNEIDER, G. LUDERER, S. WEISENBURGER, M.D. LEHNER

14:55 - 15:10 SL-099 Characterising the anti-cancer activity of *Naja nivea* snake venom fractions in breast cancer

O. MAIPHETLHO, A. LERMER, S. PALEKAR, T. KELLERMANN, S. PRINCE

15:10 - 15:25 SL-100 Harnessing Reunion island plant biodiversity for arbovirus control: Integrated antiviral discovery and reduction of *Aedes albopictus* vector competence

A.M.Y. FATUMA, A. CHUARD, C. LEBON, G. MARES, C. ATYAME-NTEN, C. EL KALAMOUNI

15:25 - 15:40 SL-101 STW5 influences the gut-brain axis in GERD by acting on the communication network between acid-sensitive channels and the serotonin system

L. WELSLAU, H. AZIZ-KALBHENN, O. KELBER, G. ULRICH-MERZENICH

15:40 - 15:55 SL-102 Enoxolone, derived from *Glycyrrhiza glabra*, reverses risk factors of treatment refractoriness in patients with major depression

H. MURCK, S. MAHMOUDI, S. WELZEL, L. SUTTER, U. SCHU

14:40 - 15:40 PARALLEL SESSIONS – SHORT LECTURES

Topic 9. Green chemistry, biotechnology and bio-inspired approaches for sustainable production processes: Innovations for high-value products

(Room 1-2 - 2nd Floor)

Chair:

Dr. Olivier Kirchhoffer (Syngenta Crop, Switzerland)

Dr. Pauline Blyweert (University of Reims Champagne-Ardenne, France)

14:40 - 14:55 SL-103 Anti-inflammatory activity of green synthesized silver nanoparticle from *Searsia lancea* leaf extract

R. RAMAGOMA, N.R. SIBUYI, A.V. LENSINK, A. MADIEHE, M. MEYER, S. AMOO, L.J. MCGAW, N.A. MASONDO

14:55 - 15:10 SL-104 One-pot sunlight-mediated green synthesis of nanoparticles using volatile oil of *Curcuma zedoaria* for sustainable water purification

A. GANGAL

15:10 - 15:25 SL-105 Cellulose-derived mycosporine-like amino acids analogues as novel UV filters for cosmetics

B. LOUMI, M. MENTION, F. ALLAIS

15:25 - 15:40 SL-106 CoA initiative: Coenzymes for next-gen industrial biocatalysis

J. COMBES, C. JEZEGOU, K. MAGNIEN, L. MOUTERDE

15:55 - 16:20 COFFEE BREAK (2nd Floor)

16:20 - 17:05 PLENARY LECTURE SESSION

Topic 11. One Health and veterinary phytomedicine

(Royal and Clovis Conference Halls – video broadcast - 2nd Floor)

Chair:

Dr. Cica Vissiennon (University of Leipzig, Germany)

16:20 - 17:05 PL-12 – Dr. Sabrina Krief – Muséum national d'Histoire naturelle, France - Topic n°11

Chimpanzees, threatened guides and sentinels for human and global Health

17:05 - 19:00 CLOSING CEREMONY

(Royal and Clovis Conference Halls – video broadcast - 2nd Floor)

19:00 - 21:00 PARC DE LA PATTE D'OIE COCKTAIL

Poster Session Program

Monday 31st August 2026

17:35 - 19:05 POSTER SESSION I & WINE and CHEESE

("Le Millésime" area)

Topic 1. Circular bioeconomy: towards maximising the value and uses of natural resources

P-001 Antiparasitic properties of sawdust from tropical timber species: Chemical diversity and potential for circular bioeconomy

S.M. ROBLEDO, F. TORRES, E. CORREA, T. PINEDA, F. ECHEVERRI

P-002 DoE-optimised extraction and qNMR quantification of acteoside from *Aloysia citriodora* leaves processing by-products

A. CHEILARI, E. DINA, E. GIKAS, N. ALIGIANNIS

P-003 Antifungal activities of bark extracts of different industrial wood species in view of their potential utilization as biocontrol agents

J.V. DORINI FALAVINHA, L. RENOARD, C. GÉRARDIN CHARBONNIER, R. MARTHA, S. DUMARÇAY, P. GERARDIN

P-004 Circular sourcing of lactic acid: From food waste fermentation to cosmetic formulation

S.J. JACKSON, P. GOI, S. GUARDIANI, A. PAGANO, A. ORANIM, A. ZYSKIND, B. CONVERSAZIONI

P-005 From food by-product to cosmetic value: Circular bioeconomy of standardized natural extracts for hair care from Italian food by-products

C. SPAGGIARI, B. CONVERSAZIONI, S.J. JACKSON, P. GOI

P-006 Eco-friendly mushroom cultivation for functional bioactive compounds through valorization of diverse by-products

M.K. LEE

P-007 Chemical characterization and monitoring of Auvergne *Arnica montana* L. to optimise its cultivation

I. RIPOCHE, M. GAINCHE, A.B. ASMINI, S. POUVARET, E. RANOUILLE, B. FUMANAL

P-008 Effects of *Helianthus tuberosus* leaf extract in HaCaT cells

A. KARAYIL, C. DU, O. OLAJIDE

P-009 Optimization of extraction and polyphenolic profiling of blackberry waste materials

S. SAMARDŽIĆ, J. ARSENIJEVIĆ, J. RADOVIĆ SELGRAD, J. ĐURIŠ, K. MILESKI, I. VELIČKOVIĆ

P-010 Brazilian fruits as an untapped source of value added Natural Products for the bioeconomy: Chemopreventive potential of anthocyanins from "grumixama" (*Eugenia brasiliensis*)

D. SILVA, J. SILVA, N. GRIZZO, A. MORELLI, A. MENZEL

P-011 Exploring the hexane – ethanol – water solvent system for the purification of diterpenes from copaiba oleoresin waste residue by countercurrent chromatography

A. LOPES HAICK, G. LIMA DE OLIVEIRA, M. BRAGA DA SILVA, A. RIBEIRO DA SILVA, G. DE MASCARENHAS COSTA, S. LEITAO, G. LEITÃO

P-012 From aquaculture waste to valuable biomass: Cultivation of edible mushrooms on salmon sludge within a circular bioeconomy framework

E. STIERLIN, J. TCHOUMTCHOUA

P-013 Circular valorisation of bark by-products via supercritical CO₂: A comparative phytochemical study of diverse species

E. STIERLIN, J. TCHOUMTCHOUA

P-014 Hemicellulose & lignin recovery from marginal biomass via sub-critical water extraction

M. HARHELLIER, J. TCHOUMTCHOUA

Topic 2. Bio- and chemodiversity of Natural Products: Marine, terrestrial and aerial (micro)organisms

P-015 Cytotoxic diterpenoids and sesquiterpenoids from the cultured soft coral *Sinularia sandensis*

J. SU, K. LAI, C. LIANG, J. WENG, M. EL-SHAZLY

P-016 Chemical profiling and discovery of a new combretastatin B-1 derivative from *Dichapetalum heudelotii* Baill.

A.A. OPPONG, J. NKETSIAH, D. OSEI-SAFO, F. SPRIANO, F. BERTONI

P-017 Revisiting toxic and non-Toxic *Dichapetalum* species: Chemoprofiling and detection of dichapetalin A

D. OSEI-SAFO

P-018 Medicinal uses of Ugandan propolis supported by metabolomically identified compounds

I. KAHWA, C. SEEL, R. WANGALWA, R. OEHME, S. BILLIG, J. TUSIIMIRE, L. KAYSER, C. WIESNER

P-019 Structural analysis and adjuvant activity of a novel QS-21 isomeric saponin isolated from *Quillaja brasiliensis*

F. WALLACE, C. FONTANA, F. FERREIRA, J. MATIAS-BANCHER, J. SACUR, J. VILLENA, M.G. VIZOSO PINTO, C. OLIVARO

P-020 Sarcoglaucene A, a novel sarsolenane-related diterpenoid from the soft coral *Sarcophyton glaucum*

Y.W. CHUANG, C.L. CHEN, P.J. SUNG

P-021 Chromatographic isolation of structurally related immunoadjuvant saponins from *Quillaja brasiliensis*

F. WALLACE, A. M.C. MINTEGUIAGA, A. SORIA, C. FONTANA, C. OLIVARO

P-022 Chemical constituents of *Pericampylus formosanus* Diels

K. CHENG, S. YU, C. WU, P. KUO, T. WU

P-023 Molecular networking-driven discovery of compounds from *Psydrax acutiflorus* (Hiern) Bridson (Rubiaceae) and *Carapa macrantha* Harms (Meliaceae) and their antiplasmodial activities

A. DONGMO KENE, S.S. TIOGO KAMGNI, M. FRESE, M. PERSICKE, B. LENTA NDJAKOU, J.R. CHOUNA, N. SEWALD

P-024 Isolation and structural characterization of rosmarinic acid derivatives and their transformation products from Nepetoideae species

A. NAZLI, B. SZÖGI-TATÁR, G. TÓTH, S. BŐSZE, S. BÉNI, I. BOLDIZSÁR

P-025 *Alstonia boonei* leaves as a source of diverse indole alkaloids with shortened tryptamine side chain

L. MÜLLER, M. GRIMM, J.N. ADDOTEY, V. SPIEGLER

P-026 Phytochemical profiling of *Lonchocarpus eriocalyx* Harms and its hemoglobin S polymerization inhibition and antiplasmodial activity

G. SAMBAYI, R. MWAKALUKWA, A. MATHEEUSSEN, G. CALJON, A. VAN DE VELDE, K. FOUBERT, L. PIETERS, E. TUENTER

P-027 Phytochemical evaluation of *Epilobium Parviflorum*, *Tanacetum vulgare*, and *Filipendula ulmaria* water extract

K. AFANDI, J. KOWALONEK

P-028 Phytochemical profiling and anti-inflammatory potential of the underexplored fern *Microsorium grossum*

M. KOVAL, J. YUNE, P. TZIMAS, A. WAWRUSZAK, A. FILIPEK, T. JAKSCHITZ, R. HO, L. SKALTSOUNIS, G. BONN, M. HALABALAKI, P. RAHARIVELOMANANA, J. HUBERT, W. KUKULA-KOCH

P-029 PTP1B inhibitory activities of alkaloids and anthraquinones from *Hemerocallis fulva* var. *kwanso* roots

T.T. LE, M.T. HA, J.A. KIM, B. MIN

P-030 LC-MS profiling of Natural Products from sea cucumbers - integrating molecular networking and *in silico* annotation tools

Y. DESPIEGELAERE, D. POPOWSKI, K. FOUBERT, A.P. SANJAYA, N. HERMANS, E. TUENTER

P-031 UPLC–HRMS-based metabolite profiling of *Justicia gendarussa* leaf extracts

A.P. SANJAYA, D. POPOWSKI, K. FOUBERT, N. HERMANS, E. TUENTER

P-032 Study of monocotyledonous and dicotyledonous seeds for their stilbenoids content

M. THEIL-BAZINGETTE, S. CLUZET, C. ROUGER

P-033 Structural characterisation of novel 1,25-dihydroxycholecalciferol triglycosides in *Solanum glaucophyllum* Desf.

E. GERLACH, S. AUTZEN, M. GLOMB

P-034 Natural products from *Cortinarius*: not just toxic or colorful metabolites

T. OZGA, F. VISENTIN, J. BELLANGER, A. BENIDDIR, A. MARVILLIERS, E. GIRARD-VALENCIENNES, A. URBAIN

P-035 Dissecting the biological activity of *Rhinella marina* venom: Insights from Centrifugal Partition Chromatography fractionation and *in vitro* evaluation

M. WELLS, A. HERVÉ, A. TIFLIT, D. KONARE, D. BEUKENS, V. LEFEBVRE, A. GENBAUFFE, F. JOURNÉ, S. ZUBRZYCKI, L. FOUGÈRE, B. BLANKERT, E. DESTANDAU

P-036 Erosion of ancestral phytochemical correspondence in vernacular *Cannabis* Categories 'Sativa' and 'Indica'

G. LEWIS, M. BARNES

P-037 Influence of extraction technique on the chemical profile and antimicrobial activity of *Myracrodruon urundeuva* extract against *Lactobacillus fermentum*

G. COSTA, A. MANHIÇA, M.M. DE OLIVEIRA, L.P. ROCHA, D.G.G. GUIDOTI, T.A. CORRÊA

P-038 Seaweeds-derived bioactive compounds as modulators of gut microbiota in diabetes: From mechanisms to therapeutic potential

F. HOSSEINI

P-039 Isolation and structural elucidation of azedanic acids A-E from the fruits of *Melia azedarach* and their lipid accumulation-regulating activity in *Caenorhabditis elegans*

S. LEE

P-040 Natural products from *Hypochaeris glabra* (Asteraceae, Cichorieae)

O. MYKHAILENKO, T. STEGEMANN, C. ZIDORN

P-041 Re-evaluation of the morphological features of *Nigella sativa* L.

S.H. GÜREL DÖKME, D. ÇİÇEK POLAT, G. YILMAZ, A. KÖROĞLU

P-042 Metabolic profiling in plant organs of four *Hypericum* species of the Greek flora

S. PAPAGEORGIOU, N. TSATSAKIS, S. POULAKI, S. KOKKINI, K. VLACHONASIOS, A. ASSIMOPOULOU

P-043 Isolation and structure determination of antiproliferative metabolites from the fungus *Suillus granulatus*

S. SURATNO, D. KRAFCSIK, M. NOVE, O. CSERNÁK, B. GERO, I. BOLDIZSAR, T. GATI, G. SPENGLER, S. BENI, A. VANYOLOS

P-044 Chemical composition of volatile and non-volatile fractions of galbanum (*Ferula galbaniflua* Boiss.) resinoid used in perfumery

M. CANTON

P-045 Co-cultivation-driven discovery of fungal metabolites with antiparasitic activity against *Trypanosoma cruzi*: LC-MS/MS-based metabolomics and molecular networking insights

G. ALMEIDA, L. TONANI, M.R.v.Z. KRESS, A.D. ANDRICOPULO, L.L.G. FERREIRA, R. KROGH, L. MARQUES, P.C. VIEIRA

P-046 Combining computational profiling and isolation of zoanthamine alkaloids from *Zoanthus* sp.: A promising strategy for targeting DKK1 and GSK-3 β in osteoporosis therapy

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P-047 *Alternaria alternata* mycotoxins increase survival rate of *Caenorhabditis elegans* by enhancing stress resistance

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P-048 Glucosinolate profile in four plant species of the Brassicaceae family harvested in the French Alpine area

S. MONTAUT, J. DANIS, L. BIZARD, N. FORT, P. ROLLIN

P-049 Phytochemical screening, antimicrobial activity, and HPLC-MS quantification of lutein in three red Algae species (*Kappaphycus alvarezii*, *Kappaphycus striatum*, and *Eucheuma denticulatum*) from Nha Trang

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P-050 Unusual macrolides with a biphenyl ether linkage and related metabolites from the mushroom

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P-051 Discovery of new sesterterpenoids from the cannabis-associated endophytic fungus *Xylaria venosula* SUNP2011 using LC-MS/MS-guided feature-based molecular networking

Y.S. JANG, K.H. KIM

P-052 New dimeric cyclopeptides bearing modified piperazate residues from *Lentzea flaviverrucosa* DSM 44664 via a LC-MS/MS-guided isolation approach

C. HUO, S. CAO, K.H. KIM

P-053 New calbistrin derivatives from the cannabis-associated endophytic fungus *Xylaria* sp. SUNP2025

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P. TRIS, E. MORDRET, E. DOLLON, B. FAUSSURIER, C. LAMOUREUX, B. OLYMPO, T. MEKDISSY, H. GEORJON, B. DELEPINE, E. MORENO, B. CORSTA, X. MOPPERT, G. LE GOFF, E. POUPON, V. LIBIS, M. BENIDDIR

P-055 Compound-specific seasonal dynamics reveal internal structuring of phytochemical profiles in *Cistus albidus* L.

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P-056 An investigation of cyclic peptides in Violaceae species via microfractionation

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P-057 Biodiversity of Natural Products: a case of *Alismatis Rhizoma*

Y. ITO, Y. YUME, H. AYAKA, A. IWANE, Y. HIROKI

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L. MENDONÇA, M. JORGE, I. PEREIRA, L. ASCENSÃO, A.C. FIGUEIREDO, P. RIJO, A. CARVALHO, P.J. OLIVEIRA, C. CABRAL

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P-061 Genome mining of *Amycolatopsis* ATHUBA1011 strain reveals divergent metallophore biosynthetic potential

K. GAITANIS, C. KOUFALI, A. KORTSINOGLIOU, S. KAILI, I. THEOLOGIDIS, D. HATZINIKOLAOU, V. KOUVELIS, N. FOKIALAKIS

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K. SUMPER, O. KUNERT, K.C. WU, Y.L. HO, E. PFERSCHY-WENZIG

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P-068 Natural products of macroalgae-associated Bacillota: from genomics to metabolomics

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P-070 Two new sesquiterpenoid-derived metabolites and two antibiotic-potentiating metabolites from the Red Sea soft coral *Paralemnalia thyrsoidea*

A.F. AHMED, C. CHAO, C. LIN, W. M. ALARIF, S. LAI

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F. KAABOUCH, J. MOREAU, C. CADIOU, C. KOWANDY, S. BOUDESCOQUE, L. DUPONT, F. CHUBURU

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P-074 Natural product discovery through genome mining, heterologous expression, and SARP activation of type II polyketide synthase gene clusters in actinomycetes

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P-075 Molecular networking-based approach as innovative strategy for target isolation of potent bioactive compounds from *Justicia depauperata* (Acanthaceae)

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A. MORANTIN, S. REMY, J. RENAULT, C. SAYAGH, N. BORIE, M. HALABALAKI, L.A. SKALTSOUNIS

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A. BUDAI, L. LENEN, J. CORDONNIER, J. NUZILLARD, P. LAMEIRAS

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P-084 JaFaR-Suite: Bridging the gap between MZmine and W4M for annotation-ready untargeted LC–MS/MS metabolomics, application to four *Sideritis* species

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P-085 Chemotaxonomical screening of twelve *Salix* species

L. KAYSER, G. AAS, G. JÜRGENLIEMK

P-086 Isolation and characterization of eight triterpenes from the bark of *Salix fragilis*

L. DREISBUSCH, G. JÜRGENLIEMK

P-087 Biochemical characterization of *Trifolium pratense* flowers, leaves and aerial parts by untargeted metabolomics for the development of hair care ingredients

C. SPAGGIARI, B. CONVERSAZIONI, S.J. JACKSON, P. GOI

P-088 A helpful tool: Python code combined with in-house-database for ^{13}C NMR comparison to assist the identification process of isolated compounds

H. GEISTMANN, J. HEILMANN, M. GRAFAKOU

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W. KUKULA-KOCH, K.K. WOJTANOWSKI, K. KUSIO-TARGOŃSKA, N. KOSHEVA, K. GAWĘŁ-BĘBEN, D. BEIS

P-090 New features of the MixONat dereplication software: A direct approach to combining ^{13}C NMR and mass spectrometric data

B. LACROIX, A. BRUGUIÈRE, Z. ASHRAF, F. SAUBION, M. LEGEAY, D. GUILLET, S. DERBRE, A. SCHINKOVITZ

P-091 Bioactivity-based molecular networking and dereplication of hemp seed specialized metabolites

H. GJONI, A. BRUGUIÈRE, D. BRÉARD, B. LACROIX, M. CIRLINI, L. DEL VECCHIO, C. DALL'ASTA, S. DERBRÉ

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M. GAINCHE, M. CHASTANET, E. TROUVÉ, I. RIPOCHE, E. JAGU

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A. ALBERT, L. LE GRÉGAM, N. LECOULTRE, A. LUSCHER, S. SCHNEE, T. KÖHLER, K. GINDRO, E. F. QUEIROZ, J. WOLFENDER

P-094 Identification and characterization of Haskap berries (*Lonicera caerulea* L. fruits) phytochemical profile

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P-095 Improvements and new MS features of the MixONat software

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A. WASILEWICZ, A. AREESANAN, S. NICOLAY, L. WENDE WOLF, M.A. BENIDDIR, U. GRIENKE, C. GRÜNDEMANN, J.M. ROLLINGER

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S. RIHKO, V. FOCK, J. SALMINEN

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A. ZVIAGIN, J. ACHKHANIAN, L. LE GREGAM, J. HUBERT, R. DE VAUMAS, L. LOFFREDO, S. GAFNER, J. HERITIER, D. CALLAHAN, A. RUTZ, A. KOTLAND, Y. DAALI, J. WOLFENDER

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P-111 Strength in unity: Complementary roles of NMR and MS in metabolomics pipeline, a marine chemical ecology case study

A. MICHAUD, S. BERTRAND, S. AKOKA, J. FARJON, E. MARTINEAU, N. RUIZ, T. ROBIOU DU PONT, E. GENTIL, P. GIRAUDEAU, O. GROVEL

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P-144 Safety of rosemary, peppermint, purple loosestrife, chamomile, and tormentil extracts in an *ex vivo* porcine jejunum model

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- P-279** Cytotoxic acridone alkaloids from *Vepris africana*
K. KINGAEW, S.L. SCHWIKKARD, S. HEASMAN, M.K. LANGAT
- P-280** 1,3-diphenylpropanoids isolated from the stem of *Broussonetia monoica* downregulate melanogenesis
H. KO, Y. CHEN, C. LIN, W. CHEN, C. CHANG, I. CHEN
- P-281** Metabolomics-guided selection of a high potential *Sorbus* hybrid as a strategy to support the 3R principles for *in vivo* research
E. KORIĆ, V. MILUTINOVIĆ, A. HAJRUDINOVIĆ-BOGUNIĆ, F. BOGUNIĆ, T. KUNDAKOVIĆ-VASOVIĆ, N. ŽIGA-SMAJIĆ, N. KAPO, I. GUŠIĆ, J. RADOVIĆ SELGRAD, K. DURIĆ, H. NIKŠIĆ
- P-282** Discovery of bioactive alkaloids targeting neurodegenerative diseases from *Mesembryanthemum tortuosum* using *in silico* and computational tools
C. KOUFALI, A.S. PACHYGIANNI, A. POLYZOIS, H. TZOUPIS, A. AFANTITIS, N. ALIGIANNIS, N. FOKIALAKIS
- P-283** Chronic exposure to *Gelsemium* preparations modulates mitochondrial bioenergetics and neuronal plasticity
I. LEJRI, A. GRIMM, P. TREMPAT, S. CHANUT, N. BOUJEDAINI, A. ECKERT
- P-284** Experimental and computational bioprospection for putative leads from *citrus* essential oil metabolites as aldose reductase and sorbitol dehydrogenase inhibitors
H. LUKMAN, S. SABIU
- P-285** Antimicrobial activity of South African plants used for the treatment of urinary tract infections
M. MABUSELA, S. VAN VUUREN, A. VILJOEN
- P-286** Hydroethanolic leaf extract of *Morus nigra* from the Brazilian Cerrado exhibits antifungal activity and modulates inflammatory gene expression
A.L. RODRIGUES, L. ABRUNHOSA, A.L. SANTANA, N. OLIVEIRA, D. SILVEIRA, A. TORQUATI, Y.K. NOBREGA, Y. FONSECA BAZZO, P. MAGALHÃES, F. SALDANHA
- P-287** Antifungal activity and *in vivo* propagation of selected South African plants used against fungal infections
S. MAHLO, A. MAGWETE, M. BABALWA
- P-288** Flavonoid glycoside compound isolation and characterisation from the root extracts of *Asparagus suaveolens* and the evaluation of its antioxidant and antibacterial activity.
H. MASHILOANE
- P-289** Cellular effects of *Symphytum officinale* root extract in skin cells model including a HaCaT-NHDF co-culture system
N. MELNYK, J. KOŁODZIEJSKA, C. PICHON, J.P. PIWOWARSKI, S. GRANICA

- P-290** Biological effects of optimised *Eucomis autumnalis* extracts: Cytocompatibility and proliferation support in cell models relevant to tissue regeneration
N. MKHUMBENI
- P-291** The effects of *Schkuhria pinnata* (Lam.) Kuntze Ex Thell on lipase activity *in vitro*
H. MOLEBALOA, X. SIWENOUNDOU, S. MOKHELE
- P-292** Modulatory effect of cinnamic acid on carbon tetrachloride-induced hepatotoxicity and oxidative stress in rats
O. MOLEHIN, O. ADELEKE, O. ODESANMI, J. DAVID, R. ATAYERO
- P-293** Essential gene-targeted screening of South African medicinal plant extracts against *Mycobacterium smegmatis* CRISPRi knockdown hypomorphs for antitubercular drug discovery
R. MOTHUPI, M. MATOTOKA, G. MASHABELA, P. MASOKO
- P-294** Phytochemical investigations and biological activity studies on *Prangos* Lindl. species
A. ÖNDER, N. GÜLMEZ, I. SÜNTAR, B.K. AKAY, M.A. DEMİREL, S. ÇERİBAŞI, E. YILMAZ
- P-295** Synergistic *in vitro* anticancer activity of doxorubicin-betulinic acid against neuroblastoma (SH-SY5Y) and lung carcinoma (A549) supported by *in silico* targeting of ALK
J. ONOJA, P. MIKLED, J. BETOW, W. CHAVASIRI
- P-296** Safety profile and *in vitro* immunomodulatory effect of *Marrubium vulgare*
Z. OUADGHIRI, O. EL FAQER, H. WAHNOU, M. TIJINI, M. AZIZ, S. RAIS, E.M. MTAIRAG
- P-297** Investigation of phytochemical constituents and their physiological impacts of *Helichrysum stoechas subsp. barrelieri* on endothelial, keratinocyte, and fibroblast cells
E. ÖZDEMİR NATH, P.E. CAMPOS, G. GÜNDOĞAN, A. ÇETİN, E. DESTANDAU
- P-298** An integrated bioautography-molecular networking approach for rapid identification of macromycete-derived antibacterial compounds
T. OZGA, Y. SOUAIBOU, A. URBAIN, J. BELLANGER, L. VALOIS
- P-299** Neuroprotective effects of *Pteridium aquilinum* var. *latiusculum* against Alzheimer's disease: Influence of collection time and location
C.H. LEE, M.S. KO, S. PARK
- P-300** An integrated network pharmacology approach to evaluate bioactive phytochemicals of *Entada elephantina* and their mechanisms in targeting diabetes-related genes
E. SALIFU, A. VILJEON
- P-301** ProTide technology: Bridging Natural Products and synthetic drug design
V. SATIKUVAR, H. KADRI, A. ELBEDIWY
- P-302** Phytochemical and antiplasmodial investigation of Zulu medicinal plants
N. TAJUDDEEN, T. SWART, H.C. HOPPE, F.R. VAN HEERDEN
- P-303** Bioactive compounds and *in vitro* antioxidant activity of leaf and peel extracts of Moroccan *Citrus aurantium*
M. TIJINI, Z. OUADGHIRI, M. AZIZ, O. EL FAQER, S. RAIS, E.M. MTAIRAG
- P-304** *Porphyromonas gingivalis* host-pathogen interaction and periodontal dysbiosis: Immunomodulatory effects of *Lippia alnifolia* and *Vatairea macrocarpa* on cytokine responses
S. TRINDADE, L. BARRETO NETO, R.B. SANTOS, T. OLIVEIRA, I. GOMES-FILHO, A. LUCCHESI
- P-305** Phytochemical profiling, antioxidant and nephroprotective activities of *Ziziphus lotus* Lam. leaf extract in paracetamol-induced renal toxicity in rats and molecular docking analysis
B.O. UMEOKOLI, C.A. UKWUBILE, N.D. MENKITI, A.A. AHUCHAOGU, N.I. DIBAL
- P-306** Isolation and characterization of bioactive compounds from *Acrostichum aureum* and evaluation of its leaf extract's anti-inflammatory and antioxidant activities
B.O. UMEOKOLI, I.C. OMEKARA, E.E. MGBEAHURUIKE
- P-307** Ethanolic extract of *Annona squamosa* L. seeds induces apoptosis in THP1 cells
D. SANTOS, S. NASCIMENTO, F. NASCIMENTO, A. CORREIA, M. SILVA, T. ROCHA, V. VALE
- P-308** Polypharmacological anti-TNBC activity of a phenolic-rich medicinal plant extract: *In vitro* and *in silico* evidence
A. WALI, H.A. ALNUAIMI, A.A. AL-SHEIKH, M.D. NASHAT, S. TALATH, M. EL-TANANI, W. IBRAHEEM, S.M. SATYAM
- P-309** A Proprietary herbal formulation suppresses lung metastasis and chemotherapy toxicity in cisplatin-treated breast cancer
W. WEI, Y. LEE, Y. YAO, C. LIAW, Y. SU
- P-310** Bioactivity-guided isolation of secondary metabolites from *Ramularia collo-cygni* with activity against *Mycobacterium tuberculosis*
V. WIEGAND, E. ADENIYI, Y. GAO, J. RYBNIKER, N. TEUSCH

Tuesday 01st September 2026

16:45 - 18:45 POSTER SESSION II & BURGER and CHEESE

("Le Millésime" area)

Topic 8. Pharmacological and biological activities of Natural Products: drug discovery (clinical, *in vivo*, *in vitro* and *in silico* approaches)**P-311** Kenaf seed oil: A potential alternative for statin intolerance *via* HMG-CoA reductase inhibition

I.N. ABD RAHIM, O. TAUPIQURROHMAN

P-312 Olive leaf extract as adjunct therapy in COVID-19: Integrating clinical and experimental evidence

S. ABDELGAWAD

P-313 The effect of nano-selenium fertilizer on secondary metabolites of *Dorema ammoniacum* leaves

E. ABEDI, D. JOSÉ MARQUES, A. HASSANVAND

P-314 Fungal whole-cell biotransformation of parthenolide generates novel metabolites for potential CYP450 phenotyping in clinical settings

J. ACHKHANIAN, M. ZWINGELSTEIN

P-315 The isothiocyanate, cheirolin targets nuclear activation of NF- κ B to reduce inflammation in LPS-stimulated RAW 264.7 macrophages

M. ADEWALE, O. OLAJIDE

P-316 Evaluation of antimicrobial and antioxidant activities of alginate-based films containing *Epilobium parviflorum*, *Tanacetum vulgare* and *Filipendula ulmaria* water extracts

K. AFANDI, J. KOWALONEK, A. RICHERT, N. HEJDA

P-317 Screening for the most potent antimicrobials in 800 tannin-containing species: Evidence for the superior activity of monomeric and oligomeric forms of hydrolysable tannins

M. AIROLA, J. SALMINEN, S. HAATAJA

P-318 Effect of the pyroligneous extract of *Eucalyptus urograndis* *in vitro* on *Pseudomonas aeruginosa* isolated from an intensive care unit

P. SILVA, N. ALVES, F. FEIJÓ, I. HOLANDA, A. PIMENTA, C. ARAUJO, C. SANTOS

P-319 8.3% *Dysphania ambrosioides* (L.) - based toothpaste in dogs with periodontal disease

V. SANTOS, N. ALVES, F. FEIJO, C. SANTOS

P-320 Efficacy of a disinfectant based on pyroligneous extract of *Eucalyptus urograndis* (clonel144) on surfaces contaminated with *Pseudomonas aeruginosa* in an intensive care unit.

P. SILVA, N. ALVES, C. ARAUJO, F. FEIJO, C. SANTOS, A. PIMENTA

P-321 Antibacterial and resistance-modulating activities of *Sterculia rhinopetala* stem bark: Inhibition of biofilm formation and efflux pumps

D. ANOKWAH

P-322 Phytochemical profiling and pharmaceutical properties of the endemic golden oak of Cyprus (*Quercus alnifolia*)

C. ANTONIOU, I. ANTONIOU, A. KYRATZIS, A. FOKAS, A. VERVERIS, K. CHRISTODOULOU, C. PALOUKOPOULOU, A.P. CHATZIVAMVAKI, D. LAZARI, C. NIKIFOROU

P-323 Understanding the mode of action of antimicrobial prenylated phenolics: An *in vitro* and *in silico* journey

J. RITSEMA, P. CALLIGARI, A. BOMBELLI, G. BOCCHINFUSO, C. ARAYA-CLOUTIER

P-324 The yeast three-hybrid (Y3H) system for Natural Product research: Method optimization and development

C. ASCHER, J. STEHLIN, S. MOSER

P-325 Shikonin/alkannin naphthoquinone derivatives for pulmonary delivery: HPLC characterization and formulation development

T. FOTOPOULOU, A. KAPOURANI, G. HÄDRICH, L.A. DAILEY, V. PAPAGEORGIOU, P. BARMPALEXIS, A. ASSIMOPOULOU

P-326 Targeted modulation of adiposity by bio-actives from a lesser-known African edible nut, *Coula edulis* Balli

I. ATANGWHO, C. IBENEME, U. OBETEN, D. UTI, G. EGBUNG, E. AGWUPUYE, A. AGBOOLA, E. EDET

P-327 Efficacy of St. John's wort extract (STW3-VI) on anxiety symptoms in moderate depression

H. AZIZ-KALBHENN

P-328 Natural antiviral agents from *Colchicum* species against Human Coronavirus 229E

I. BADJAKOV, I. DINCHEVA, P. GENOVA-KALOU, S. IVANOVA

P-329 Structurally diverse sesquiterpene lactones and dimers from *Tanacetum parthenium* targeting AKT/ERK signaling in melanoma cells

T. BALSIGER, R. HAN, M. RAKHMANOV, M. KARPOUCHTSI, M. DOBRZYNSKI, M. SMIESKO, A. PRESCIMONE, O. PERTZ, R. TEUFEL, E. GARO

P-330 Anti-metastasis and immunomodulatory effects of lutein and β -sitosterol in breast cancer mouse model

Y. BARAYA, K. KENG WONG, N. SORIANI YAACOB

P-331 Bioactive constituents of *Pistacia lentiscus* var. *chia* as potent inhibitors of TNFR/NF- κ B signaling

C. ANAGNOSTOU, E. KALAMPOKIS, A. BASDEKI, I. AKRANI, E. MIKROS, A. FILIPEK, T. JAKSCHITZ, G. BONN, J. HUBERT, A. KOTLAND, A. ABOU-DIB, L.A. SKALTSOUNIS, M. HALABALAKI

P-332 Potent anti-ulcer activity of *Aristolochia longa* rhizome extract: *In vivo*, histological and *in silico* evidence

I. BENAHMED

P-333 Inhibition of enzymes within the extracellular adenosine pathway by plant-derived polyphenols

D. BEREZOVSKA, S.V. LUCA, O. ŚWIDER, A. OLĘDZKA, M. BRYŁA, M.E. CZERWIŃSKA

P-334 Antibacterial and antioxidant activities, *in silico* molecular docking, pharmacokinetic analysis of compounds from roots of *Cyphostemma cyphopetalum*

T. BESHAI

P-335 Comprehensive metabolite profile and cytotoxic constituents of *Cryptolepis decidua*

T. BLANK, C. PUTH, A. KURZ, M. BENKA, M. RAKHMANOV, I. DU PREEZ-BRUWER, D. MUMBENGEGWI, D.A. PLATTNER, B. KAMMERER, R. HUBER, R. TEUFEL, V.M. LÜTH, O. POTTERAT

P-336 Leishmanicidal activity of the Amazonian plants *Caryocar villosum* (Aubl.) Pers. and *Pentaclethra macroloba* (Willd.) Kuntze

L.F. D. PASSERO, S. K. S. LIMA, I. N. CAVALLONE, M. D. LAURENTI, A.C. DE JESUS SILVA, C. SILVA LIMA, E.C. MÜLLER, K. SCOTERCCI, F. BOYLAN

P-337 Leishmanicidal effect of the *Capparis cartilaginea* Decne essential oil on *Leishmania* (*Leishmania*) *amazonensis*

L.F. D. PASSERO, S. K. S. LIMA, I. N. CAVALLONE, M. D. LAURENTI, B. ALSHARIF, F. BOYLAN

P-338 Comparative seasonal analysis of phenolic and flavonoid content and antioxidant activity in two accessions of *Fridericia chica* (Bonpl.) L.G. Lohmann

P.V. FRAGA, A.C. BRITO MARIA, L. WANG HANTAO, B. FERREIRA DA SILVA, A. DE SOUZA SILVA, W. DE SOUZA LI, I.M. DE OLIVEIRA SOUSA, L. DA SILVA DIAS RABELO, N. DE CÁSSIA ALMEIDA QUEIROZ, A.L. TASCA GOIS RUIZ, M.A. FOGGIO

P-339 Molecular docking study of catechin isomers as potential HIV-2 protease inhibitor

J.C. BUNGAR, S.L. DE PAZ-SILVA, A.R. MAZAHERY

P-340 Phytochemical profiling and evaluation of the antidiabetic and antioxidant potential of *Onobrychis tournefortii* (Willd.) Desv.: A Traditional Anatolian medicinal plant

Z. PARLAR, B. GÜNER, A. DEMİRAY, O. KAPLAN, I.I. CANKAYA

P-341 Biofilm phenotypes, induced by carotenoid-rich plant extracts, provide clues about *Pseudomonas aeruginosa* PAO1 lifestyle switches

J. CARETTE, A. DELACUVELLERIE, T. RASAMIRAVAKA, M. EL JAZIRI, P. DUEZ, R. WATTIEZ, A. NACHTERGAEEL

P-342 *In vitro* growth inhibitory activity and chemical profiling of essential oil vapours from Indian medicinal plants against pneumonia-causing pathogens

A. CHAURE, J. ANTIH, L. KOKOSKA, H. ROUBIK

P-343 Cytogenotoxic activity and phytochemical profile of *Azadirachta indica* stem bark extract

T.A. CORRÊA, L.P. ROCHA, D.G.G. GUIDOTI, D.T. GUIDOTI, H. SILVA, G.H.G. COSTA

P-344 Effects of *Cornus mas*, *Hippophae rhamnoides*, and *Chaenomeles japonica* fruit extracts on adipokine profile in rats

W. GÓRCEKA, M. BAMBUROWICZ-KLIMKOWSKA, M. CZERWIŃSKA

P-345 Development and characterization of new delivery systems containing extracts of *Viscum album*: Nanotechnology against glioblastoma multiform tumors

V. CAMPOS, P. PICCIANI, B. LEONHARD, J. BATISTA, U. WEISSENSTEIN, D. KRUEERKE, H. BÖTTGER, S. BAUMGARTNER, C. HOLANDINO

P-346 Differential responses of flavonoids and chalcone analogues to oxidative stress in endometriosis cell models

K. DE SOUZA GOMES, J. COELHO, G. CERCHIARO

P-347 Synergism between *Krameria lappacea* root extracts and gentamicin against Gram-positive bacteria

H. DEBELVALET, F. GAUVAIN, R. JANET-BINTZ, P. FECHTER, J. QUETIN-LECLERCQ, N. ALIGIANNIS, C. VONTHRON-SÉNÉCHEAU, R. GROUGNET, S. BOUTEFNOUCHET, F. GALLEGUILLOS, S. ORTIZ

P-348 A structured interdisciplinary pipeline for antimicrobial discovery addressing resistance and environmental persistence.

G. DEGOTTE, J. CORDONNIER, S. REMY, I. VILLENA, V. GREIGERT

P-349 Structure-activity relationship study of nature-inspired phenacyl glycosides

E. DELAR, C. GAUTHIER

P-350 Evaluating the cellular safety of psilocybin-containing mushroom extracts in human normal cell and cancer cell models

C. SAMS, K. FOSTER, B. THANKAPPAN, M. LANGAT, G. SARALA, T. DELGODA

P-351 From European plants to antiplasmodial extracts: A bioguided fractionation of *Laurus nobilis* reveals promising activity

E. DENDIEVEL, M. LAHNGONG, C. HAMANN, J. NICOLAS, O. JANSEN, M. FRÉDÉRICH, A. LEDOUX

P-352 Nutraceutical power of *Castanea sativa* (Mill) fruit shells in gastric inflammation: an *in vitro* study

E. PERCACCIO, S. DI GIACOMO, S. PIAZZA, G. MARTINELLI, E. SANGIOVANNI, A. DI SOTTO

P-353 Flavonoids and alkylresorcinols from *Labisia pumila* and *Premna foetida* impeded *in vitro* platelet aggregation: Potential application in atherosclerosis

R. DIANITA, I. JANTAN

P-354 Black chokeberry (*Aronia melanocarpa*) extract induces anabolic and anticatabolic signaling in C2C12 myotubes: mechanistic implications for diabetes mellitus prevention

T. KOSTOV, E. HABERSATTER, S. CHEN, C. BRINKMANN, T. ESATBEYOGLU, P. DIEL

P-355 Evaluation of the urease inhibitory activity of *Tilia rubra* subsp. *caucasica* (Rupr.) V.Engl. by activity-guided fractionation

E. DİLMAÇ, I. GÜRBÜZ, E. BEDİR, G. EREN

P-356 Antiviral potential of *Colchicum* species against Herpes Simplex Virus Type 1 supported by phytochemical profiling and *in silico* analysis

I. DINCHEVA, I. BADJAKOV, P. GENOVA-KALOU, S. IVANOVA, N. MARKOVA, M. RANGELOV, N. TODOROVA

P-357 Comparable antibacterial activity of extracts from aerial and underground parts of *Salvia verticillata*

K. DOKUPILOVÁ, M. VINCEOVÁ, E. KOSTOVČÍKOVÁ, P. MUČAJI, S. BITTNER FIALOVÁ

P-358 Bilirubin beyond animals: Unveiling the therapeutic potential of *Strelitzia nicolai* Aril extract

D. DWARKA

P-359 A comprehensive and comparative study of seven medicinal plants: Phytochemical screening and antioxidant activities

H. EL ALLAOU, K. HABOUBI

P-360 A human-relevant platform using high-throughput exposure to assess safety and pharmacological effects of smoked Cannabis

F. EMSER, M. SELLE, J. BERTRAM, M. GARCIA KÄUFER, C. GRÜNDEMANN

P-361 Bioactive constituents and antimicrobial activity of *Artemisia annua* leaves against multidrug-resistant bacteria

A. FALODUN

P-362 Comparative *in silico* analysis of the antiviral potential of isolated compounds and GC-MS extracts of *Artemisia annua* against 5RMM protein

A. FALODUN, V.O. IMIEJE, K. SUZAN I., O. ERHARUYI, A. SYLVESTER, I. ETINOSA, K. OSAHON OGBEIDE, J.O. IGOLI

P-363 *In silico* evaluation of GC-MS derived and isolated compounds from *Annona muricata* L. as potential inhibitors of SARS-CoV-2 main protease

A. FALODUN, V.O. IMIEJE, N.O. SAIBU, E. OSAYEMWENRE, S. AGHAHOWA, E. IGBINOSA, K.O. OGBEIDE, J.O. IGOLI

P-364 Saudi Arabian flora as a reservoir for antimicrobial discovery: Bioactive secondary metabolites from *Argyrobium arabicum* (Decne.) Jaub. & Spach targeting MDR pathogens

O. FANTOUKH, M. HAWWAL, S. AHMED, G. ALHAMOUD, F. AL-OTIBI, A. ALMANSOB, S. ALQASOUMI, W. ALOBAID, P. ALAM

P-365 Phytochemical insights into *Otostegia fruticosa* (Forssk.) Schweinf. ex Penz.: Secondary metabolites as promising leads against multidrug-resistant pathogens

O. FANTOUKH, G. ALHAMOUD, M. HAWWAL, S. AHMED, F. AL-OTIBI, A. ALMANSOB, S. ALQASOUMI, W. ALOBAID, P. ALAM

P-366 Immunomodulatory potential and synergistic effect of ciprofloxacin associated with *Eucalyptus urograndis* pyroligneous extract against *Staphylococcus aureus* of otological origin in dogs

F. FEIJO, I. MELO, N. ALVES, A. CASTRO, G. LOPES, G. COSTA, C. SANTOS

P-367 Efficacy of *Dysphania ambrosioides* (L.) paste against microorganisms present in the oral cavity

V. SANTOS, F. FEIJO, N. ALVES, C. SANTOS

P-368 Anti-inflammatory effect of oral administration of *Verbesina montanoifolia* extract in diabetic rats

B. FENTON NAVARRO, M. VARGAS VARGAS, A. VAZQUEZ HERNANDEZ

P-369 Fate of phytomarkers from plant-derived additives in the gastrointestinal tract of monogastric animals

L. FERRO HOLGUIN, M. LE BOT, P. ENGLER, S. BOISARD, D. GUILLET

P-370 Complementary nutraceutical strategies targeting blood pressure regulation: The role of oleuropein and potassium

J. FLADERER-GROLLITSCH, F. BUCAR, T. KLEIN, A. KOMPEK, D. MENZEL, C. SCHÖN

P-371 NeuroHEALTH: from psychotropic alkaloids to neuroprotective agents through integrated computational and experimental workflows

N. FOKIALAKIS, A. POLYZOIS, C. KOUFALI, N. MILIC, K. GAITANIS, E. PANOU, A. SOFIA PACHYGIANNI, V. KOTSINIS, H. TZOUPIS, A. AFANTITIS, M. KRITSANIDA, O. GENILLOU, K. SKALICKA-WOŹNIAK, B. BUDZYŃSKA, S. PETRAKIS, K. PLIATSIKA, C. PETROU, N. ALIGIANIS, I. CHINOU

P-372 *In vitro* evaluation of antiviral activity of *Calendula officinalis* against arboviruses

M. FONSECA, J. OLIVEIRA, T. ALVES, M. PEDROSA, A. SILVA, T. SOUZA, E. FLORES-SOUZA, A.B. MENDES, M. FERREIRA, A. CALDEIRA, E. KROON

P-373 Quantitative NMR meta analysis of Natural Product isolates reported in the recent literature

B. FRIESEN, D. REBOLLAR-RAMOS, C. WANG, S.V. LUCA, M. VIANA, J. MCALPINE, S. CHEN, G. HARRIS, G. PAULI

P-374 Aminated xanthenes as apoptosis-inducing agents in lymphoma A20 cells

X. FU, S.H. MAH

P-375 Wound-healing activity and phenolic/flavonoid content of *Marrubium vulgare* L. extracts and fractions

S. GHADAMI, N. KHOSRAVI DEHAGHI, H. MIR BAGHERI, A. BAGHAI, M. DELNAVAZI, N. ZONOUBI, M. SHARIF ZADE

P-376 New germacranolide and eudesmanolide sesquiterpene lactones from *Mikania nummularia* DC. (Asteraceae) with antitrypanosomal and antihelmintic activity

M. GONÇALVES, D. TRISTÃO, L. CARNEIRO, V. ALBUQUERQUE, T. TEIXEIRA, M. AMARO, R. ALMEIDA, J. DE MORAES, A. TEMPONE, J.H. LAGO

P-377 Effects of *Cornus mas*, *Hippophae rhamnoides*, and *Chaenomeles japonica* fruit extracts on metabolic profile in rats

W. GÓRĘCKA, D. PADEWSKA, M. BRYŁA, D. BEREZOVSKA, M. BAMBUROWICZ-KLIMKOWSKA, M. CZERWIŃSKA

P-378 Bioactive molecules from the Middle of the World: Unlocking the natural treasure of Ecuadorian biodiversity

C. BARBA-OSTRIA, R. GONZALEZ-PASTOR, J. HEREDIA-MOYA, A. MAYORGA-RAMOS, J. ZÚÑIGA-MIRANDA, A. PEÑAHERRERA-PAZMIÑO, E. COYAGO-CRUZ, L. GUAMAN

P-379 Memory-enhancing effects of the dichloromethane extract of *Lavandula stoechas* L. subsp. *stoechas* on scopolamine-induced amnesic rats

E. GÜNDAY, F.S. ŞENOL DENİZ, . SÜNTAR, M.A. DEMIREL, A. KAHRAMAN

P-380 Phytochemical profiling of *Echinophora* species and comprehensive evaluation of antioxidant, DNA protective and genotoxicity-related safety

S. GÜNDOĞDU, M. GÖZÜBÖYÜK, G. İPEK-ERDEMLİ, M. YÜZBAŞIOĞLU-BARAN, G. EMECEN, A. DOĞRU, E. NEMUTLU, A. SIMON, A. KURUÖZÜM-UZ

P-381 *Nigella sativa* L.: Some phenolic compounds and biological effects

S.H. GÜREL DÖKME, D. ÇİÇEK POLAT, B. KARACA, E. KÖNGÜL ŞAFAK, S. İLGÜN, A. KÖROĞLU

P-382 *Cimicifuga racemosa* extract Ze 450 reduces visceral fat while preserving skeletal muscle mass in a high fat diet model in female rats

E. HABERSATTER, S. CHEN, T. KOSTOV, J. DREWE, G. BOONEN, V. BUTTERWECK, P.R. DIEL

P-383 Metabolomics guided generation of a chalcone library for RSV antiviral discovery

P. HAEMMERLI, L. COLLARD, M. HUBERT, L. LE GREGAM, L. MARCOURT, A. GRONDIN, S. CLÉMENT, E. FERREIRA QUIEROZ, C. TAPPAREL, J. WOLFENDER

P-384 Proprietary syrups of *Plantago lanceolata* and *Hedera helix* produce antibacterial and inhibition of adhesion of *Streptococcus pyogenes* on bronchial epithelium

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- P-521** Bioactive properties of the mangrove *Avicennia marina* from Qatar: Phytochemical profiling, antioxidant activity and anti-lung cancer potential
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- P-524** Sweet cherry consumption improves glycemic control and inflammatory biomarkers in healthy adults
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- P-525** Combinations and molecular hybrids of antitumor triterpenes from Mexican plants: Design, synthesis and cytotoxic evaluation.
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- P-530** Peroxisome targeting with eicosenol to selectively eliminate leukemia cells
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P-539 Quercetin from *Allium cepa* as a potentially docked allosteric inhibitor of PTP1B: Implications for targeted cancer signalling therapy

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P-546 Anticancer potential of extracts from selected *Potentilla* species against human colorectal cancer cells

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P-549 Antibiofilm activity of the endophyte *Alternaria cf. alternata* against the bi-species biofilm *Staphylococcus aureus* and *Candida albicans*

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P-556 Does *in vitro* simulated gastrointestinal digestion affect phenolic content and antioxidant capacity of sage extracts?

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P-559 Phytochemical profiling and antibacterial activity of underground organs of selected *Salvia* species

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P-565 Interaction of aqueous fermented extract of *Rhus toxicodendron* L. with pain-associated G protein-coupled receptors

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P-567 Innovative identification and evaluation of Natural Product inhibitors of MreB as promising unaddressed antibiotic target

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P-568 Natural products as initial scaffolds for generating promising antifungal candidates against phytopathogenic fungi

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P-569 Whole-cell fungal biotransformation and CYP-mediated metabolism of solanidine: a tool to access human-relevant metabolites

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P-571 Many faces of honey: Analysis of its biological activity for health applications

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P-572 *Lepidium peruvianum* as a source of glucotropaeolin: Isolation and CNS-related biological activity

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P-573 Centrifugal Partition Chromatography as a green tool for isolation of bioactive gingerols with neuroprotective potential

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P-577 Metabolic profiling of *in vitro* adventitious root cultures of *Iris germanica* L. under abiotic elicitation in bioreactors

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P-584 Biosourced Au(III) complexes incorporating xyloside-biogenic polyamine conjugates ligands: Synthesis and antitumoral evaluation

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P-585 Smart ambidextrous supramolecular gelling compounds based on phenolic acid issued from wood as multifunctional ingredients for cosmetic or medical applications

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P-586 Spicule-based delivery systems in cosmetic formulations: Evaluation of sensorial properties and potential for enhanced topical delivery

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P-587 Metabolic rewiring of *Nicotiana tabacum* hairy roots for high level anatabine biosynthesis

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C. HAMANN, O. JANSEN, L. TEILLIEZ, D. DJABRAILOVA, K. JULLIEN, P. SACRE, F. BAFORT, A. LEDOUX, E. MAQUOI, M. FRÉDÉRICH

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P-591 Enzymatic glycosylation of polyphenols and study of their biological activities for cosmetic applications

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P-592 Optimization of azaphilone production in *Penicillium sclerotiorum* by selection of amino nitrogen source

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P-593 Noble metal nanoparticles enhance antioxidant potential in *Brassica oleracea* L. var. *italica* (broccoli) *in vitro* cultures

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P-594 Antioxidant potential of phenolic metabolites from cultured *in vitro* *Houttuynia cordata* Thunb. (fishmint) shoots

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P-598 Biotechnological potential of the endangered halophyte *Eryngium maritimum* L. for sustainable *in vitro* production of plant material with preserved phytochemical fidelity

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P-599 Development and preliminary validation of α -glucosidase-functionalized magnetic particles for ligand fishing applications

G.P. ROSA, M.C. BARRETO, A.M.L. SECA

P-600 Green synthesis and anti-Inflammatory activity of silver nanoparticles based on leaves extract of *Aphania senegalensis*

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P-601 Methyl jasmonate increases phytocannabinoid content and induces metabolic reprogramming in the glandular trichomes of *Cannabis sativa* L.

G. SENEVIRATHNE, M. WELLING, A. GENDALL, K. JOHNSON

P-602 Environmentally sustainable elicitors for enhanced secondary metabolite production and growth in the endangered medicinal orchid *Crepidium acuminatum* (D. Don) Szlach.

V. SHARMA, R. SHARMA, Y.P. SHARMA, P. KUMAR

P-603 Mutation breeding: An approach for induced variability and genetic improvement in medicinal and aromatic plants

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P-604 CYP716C enzymes catalyze the C-2 oxidation of maytenoic acid in the biosynthetic pathway of *Monteverdia ilicifolia*

O. SOUZA, M. FURLAN, V. COURDAVAULT

P-605 Chemoenzymatic diversification of oblongifolin B from Brazilian red propolis by *Trametes versicolor* laccases

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