

International Delegates for the 8th National Congress of Medicinal Plants in Tarbiat Modares University, Tehran, Iran 24, 25 April 2019



Prof. Leandros A. Skaltsounis

Full Professor, Greece

“Olive Bioactive Compounds: Chemistry and Pharmacology”

Director of the Department of Pharmacognosy and Natural Product Chemistry, Faculty of Pharmacy, University of Athens, Greece

Professor Skaltsounis obtained his Ph.D. from the Descartes University of Paris V on 1987 and he has spent six year as academic staff in CNRS (UMR No 8638) in Paris. Since 1994 he is a permanent member of the Faculty of Pharmacy in the University of Athens. At present he leads a research group of more than 30 researchers focusing on natural product-based lead discovery for various applications, in therapeutics, functional foods, cosmetics and agrochemicals. Parallel research activities have been deployed concerning the nutritional value of natural products, constituents of the Mediterranean diet and the development of novel nutraceuticals, mainly based on olive oil bioactive compounds. Research activities of his team have resulted so far in the publication of over 330 research papers and 15 patents.



Prof. Hartwig Schulz

Full Professor, Germany

“Occurrence and metabolite profiling of twisted garlic (*Allium obliquum*)”

Julius Kuehn Institute (JKI), Federal Centre for Cultivated Plants, Institute for Ecological Chemistry, Plant Analysis and Stored Product Protection, Quedlinburg, Germany

Prof. Hartwig Schulz’s main research interests are: Analysis of essential oils and aroma extracts, evaluation of secondary metabolites in medicinal and spice plants as well as in fruit and vegetables with special respect to food quality, plant resistance and stress aspects, development of rapid methods for various applications in plant breeding, efficient support of cultivation, and quality control of ready products (application of on-line techniques; establishment of efficient and non-destructive spectroscopic techniques such as NIR- IR- and Raman-spectroscopy including microscopy-mapping/imaging techniques) as well as GC-SPME and SBSE techniques. Prof. Schulz has been graduated from Institute of Inorganic and Analytical Chemistry, for his PhD from Kiel in Germany and since 1995 he is the Head of the Institute for

Ecological Chemistry, Plant Analysis and Stored Product Protection, Federal Centre for Cultivated Plants (JKI) in Berlin-Dahlem and Quedlinburg, Germany.



Dr. Maria Halabalaki

Assistant Professor, Greece

“Systematic and holistic investigation of *pistacia lentiscus* resin, a unique product with exceptional pharmacological properties”

Department Of Pharmacognosy And Natural Products Chemistry, University Of Athens, Greece

Dr. Halabalaki obtained her Pharmacy degree, master and Ph.D. from University of Athens, Department of Pharmacognosy and Natural Products Chemistry. She has expertise in mass spectrometry and proteomics during her Post Doc and after that in several laboratories (Innsbruck, Geneva and Basel) and companies (e.g. Bionorica). In 2015, Maria was awarded with Egon Stahl in silver, a medal, a document and a monetary prize for recognizing and promoting young scientists. Dr. Halabalaki has more than 90 papers and 100 national and international conferences. She also belongs at the coordinating team of 6 EU projects, 3 National ones and she is the facilitator of 2 EU and 1 National research project. Her main scientific interests involve the separation and isolation of natural products using chromatographic techniques (VLC, MPLC, FCPC, HPLC) and the structural elucidation of natural products via spectroscopic methods (UV-Vis, IR, GCMS, LC-MS, 1&2D NMR); development and application of chromatographic methods (HPLCDAD, LC-MS and UHPLC-HRMS[®]) for the qualitative and quantitative evaluation of natural products in plant extracts, biological substrates, foods, nutraceutical, cosmeceuticals and their quality control aspects with metabolomics/metabonomic approaches using NMR and LC-MS platforms for the discovery of biomarkers; dereplication and investigation of mechanism of action of natural products.



Dr. Solomiia Kozachok

Specialist and Senior Researcher, Poland

“Mycoconstituents of endophytic *Alternaria* strains isolated from *Herniaria glabra* L. and impact on the host’s plant specific metabolites”

Department of Biochemistry and Crop Quality, Institute of Soil Science and Plant Cultivation, State Research Institute, Pulawy, Poland

Department of Pharmacognosy with Medical Botany, I. Horbachevsky Ternopil State Medical University, Ternopil, Ukraine

Dr. Kozachok has experience in the phytochemical analysis including isolation, identification and quantification of triterpenoid saponins, flavonoids and mycoconstituents using modern chromatographic techniques such as UPLC-TQD/DAD, HR/Q-TOF/MS and also NMR spectroscopy. The

isolation of pure natural compounds are carried out using the gel-filtration, flash chromatography (RP and NP), semi-preparative HPLC (RP and HILIC). During her post-doc, she worked on microbiology field: isolation and cultivation of endophytes, their morphological/genotypic identification and phylogenetic analysis. Solomiia also obtained the Polish grant in “Searching for chemotaxonomic markers of endophytic fungi associated with *Herniaria glabra* L.”. She mainly has focused on metabolomic studies of mycocosituens of endophytes isolated from *Herniaria glabra* L. using UPLC-Q-TOF/DAD/CAD. The subsequent analysis of obtained data in STATISTICA program, with the HCA/PCA calculations, will provide scientific evidence for the endopyte-host interactions.



Eng. Łukasz Pecio

Assistant and Researcher, Poland

“Characterization of *Herniaria glabra* L. triterpenoid saponins and their enzymes inhibitory activity”

Department of Biochemistry and Crop Quality, Institute of Soil Science and Plant Cultivation, State Research Institute, Pulawy, Poland

Mr. Pecio currently is employed as the assistant in the Department of Biochemistry and Crop Quality of the Institute of Soil Science and Plant Cultivation of State Research Institute in Pulawy, Poland. His scientific skills are focused on the process of isolation of plant-specific metabolites (using liquid-liquid partitioning, gel filtration, FLASH, and prep-HPLC chromatography), and elucidation of their structures by spectral analyses (UV/Vis, MS, polarimetry, ECD and NMR). Łukasz has got in-depth capabilities in NMR spectrometer usage (500 MHz, Bruker – liquid samples), operating UPLC-PDA-MS (Waters) and prep-HPLC (Gilson and Dionex) chromatographic systems, also expert knowledge in the freeze-drying technique and samples preparation with regards to their chromatographic and spectral processing. His role in the Department is also the preparation of scientific papers and scientific grants, and dissemination of their results. Mr. Pecio’s bibliography includes 53 scientific papers with over 500 citations.