

CURRICULUM VITAE

PERSONAL DATA

Surname: Sakavitsi

First Name: Maria Eleni

Academic Position: PhD Candidate

Date of Birth: 28/07/1987

Place of Birth: Athens, Greece

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EDUCATIONAL QUALIFICATIONS

March 2016-December 2020	PhD candidate in Pharmacognosy and Natural Products, School of Pharmacy at the National Kapodistrian University of Athens Thesis "Phytochemical investigation, isolation, structure elucidation and metabolism studies of secondary metabolites from edible plants of worldwide biodiversity, focusing on natural agents that promote healthy ageing" Supervisor: Prof. Alexios Leandros Skaltsounis
November 2012 - November 2015	Master of Science in Pharmacognosy and Natural Products, School of Pharmacy at the National Kapodistrian University of Athens Thesis "Phytochemical Investigation, Isolation & Structure Elucidation of Secondary Metabolites from the plants <i>Erythrina excelsa</i> Baker & <i>Onobrychis alba</i> (Waldst. & Kit.) Desv. <i>subsp. laconica</i> (Orph. ex Boiss.) Hayek of the Leguminosae Family" in context of the EU project AGROCOS. (Grade 8.52/10) Supervisor: Prof. Alexios Leandros Skaltsounis
October 2005 - December 2011	Bachelor of Science in Chemistry at the University of Crete, Greece. Thesis: Quality control analysis of shower gel Japanese Rose, from raw materials to final product for J&J USA (Grade 10/10) Supervisor: Prof. X.E Katerinopoulos (conducted during the internship in Korres Natural Products) Oct 11 - Dec 11. Thesis: Extended report on experimental olive oil quality control methods (Grade 9/10) Supervisor: Prof. X.E Katerinopoulos (conducted during the internship in General Chemical State Laboratory) Apr 11 - Jun 11
September 2010 - February 2011	Exchange Student at Utrecht University, Netherlands Course: Introduction to Energy Analysis, Prof. E. Nieuwlaar. Project: Investigating the energy use of the banking sector: Do the banks on the Dow Jones sustainability index show good energy performance? (Grade 9/10) Course: Life Cycle Assessment, Prof. E. Nieuwlaar. Project: A comparative study regarding the environmental impacts of the complete life cycle of two napkin systems (Grade 8/10)

RESEARCH INTERESTS

Experienced researcher chemist, soon a PhD. holder on the field of metabolism of dietary and medicinal plants. Involved in international scientific projects, as scientific personnel and in administrative sections. Skilled in state of art analytical techniques, extraction, isolation and structure elucidation of food and plant oriented secondary metabolites.

Analytical Chromatographic Methods	Thin layer Chromatography (TLC), High Performance Liquid Chromatography (HPLC), Ultra High-Pressure Liquid Chromatography-Mass Spectrometry (UPLC-MS), Gas Chromatography-Mass Spectrometry (GC-MS)
Preparative Chromatographic Methods	Preparative-TLC, Column chromatography (CC), Size exclusion chromatography (Sephadex), Solid Phase Extraction (SPE), Semi-preparative HPLC, Fast Centrifugal Partition Chromatography (FCPC), Medium Pressure Chromatography (MPLC)
Spectroscopic /metric methods	Nuclear Magnetic Resonance Spectroscopy (NMR), High Resolution ElectroSpray Mass Spectrometry (HR-ESI-MS)
Scientific Software	Chromquest and Clarity for HPLC, Xcalibur and Analyst for LC-MS, TopSpin and MestrecNova for NMR data analysis, SIMCA, Umetrics, Mzmine, MetaboAnalyst

PARTICIPATION IN CONFERENCES

September 2019	Participation with an oral presentation entitled " Simulating human gastrointestinal and colonic biotransformation pathways through an in vitro assay reveals insight on hydroxytyrosol and oleuropein metabolism " at the 67 th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA) 1-4 September 2019, Innsbruck, Austria
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September 2019	Participation with a poster presentation entitled " Integrating UPLC-MS/MS-based Molecular Networking and NMR structural determination for the untargeted phytochemical characterization of the fruit of <i>Crescentia cujete</i> (Bignoniaceae) " at the 67 th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA) 1-4 September 2019, Innsbruck, Austria
September 2019	Participation with a poster presentation entitled " Phytochemical investigation and extended LC-HRMS & HRMS/MS characterization of secondary metabolites from roots, leaves and fruits of <i>Mandragora autumnalis</i> (Solanaceae) " at the 67 th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA) 1-4 September 2019, Innsbruck, Austria
November 2018	Participation with a poster presentation entitled " Investigation of the absorption and colonic biotransformation of olive oil polyphenols in the GIDM-Colon, a validated <i>in vitro</i> Gastrointestinal Dialysis Model with Colon phase " in the 30 th International Symposium on The Chemistry of Natural Products and the 10th International Congress on Biodiversity 25-29 November 2018, Athens, Greece
November 2018	Participation with a poster presentation entitled " Mediterranean herb extracts inhibit microbial growth of representative oral microorganisms and biofilm formation of <i>Streptococcus mutans</i> " in the 30 th International Symposium on The Chemistry of Natural Products and the 10th International Congress on Biodiversity 25-29 November 2018, Athens, Greece
September 2018	Participation with a poster presentation entitled " Investigation of the absorption and colonic biotransformation of olive oil polyphenols in the GIDM-Colon, a validated <i>in vitro</i> Gastrointestinal Dialysis Model with Colon phase " in the 2 nd International Conference on Food Bioactives & Health 26-28 September 2018, Lisbon, Portugal
October 2017	Participation with a poster presentation entitled " Exploration of dietary plants from worldwide biodiversity aiming the discovery of active agents with anti-ageing effects " in the 3 rd International Conference on Natural Products Utilization: from Plants to Pharmacy Shelf (ICNPU-2017) October 18 - 21, 2017 Bansko, Bulgaria
September 2017	Participation with a poster presentation entitled " Phytochemical investigation of bioactive ingredients from <i>Aristolelia chilensis</i> and <i>Ugni molinae</i>. Evaluation of their anti-ageing effects employing a <i>Drosophila</i> model " in the 65 th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA) September 3 - 7, 2017 Basel, Switzerland
July 2016	Participation with a poster presentation entitled " Isolation and structure elucidation of twelve new prenylated flavonoids from <i>Onobrychis</i> spp. (Leguminosae) employing LC-HRMS, HSCCC & NMR techniques " in the 9 th Joint Natural Products Conference July 24-27, 2016 Copenhagen, Denmark
November 2015	Participation with a poster presentation entitled " Introducción al estudio conformacional de la daticshetina y comparación con flavonoides relacionados " in XX Simposio Nacional de Química Orgánica, Sociedad Argentina de Investigación en Química Orgánica Noviembre 11-14, 2015 Mar del Plata, Argentina
August 15	Participation with a poster presentation entitled " Targeted isolation of prenylated isoflavonoids from <i>Erythrina excelsa</i> using LC-MS and HSCCC techniques " in 63 rd International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA) August 23-27, 2015 Hungary, Budapest
September 2014	Participation with a poster presentation entitled " Cytotoxic and pro-apoptotic effects of <i>Hypericum</i> species. Metabolites profiling and dereplication procedures for the identification of bioactive ingredients " in 62 nd International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA) August 31 - September 4, 2014 Guimaraes, Portugal

LANGUAGES

Greek	Native speaker
English	Certificate of proficiency in English (ECPE), C2
German	Mittelstufe of Goethe Institut, B2
Spanish	Diploma in Spanish (DELE), B2

PUBLICATIONS

October 2020	Food Chemistry, 2020. Ruby chocolate: a study of its phytochemical composition and quantitative comparison with dark, milk and white chocolate. DOI: 10.1016/j.foodchem.2020.128446
September 2020	Phytochemistry Letters, 2020. UPLC-MS/MS-based molecular networking and NMR structural determination for the untargeted phytochemical characterization of the fruit of <i>Crescentia cujete</i> (Bignoniaceae). DOI: 10.1016/j.phytochem.2020.112438
May 2020	Biomolecules, 2020. <i>In Vitro</i> Anti-Inflammatory, Anti-Oxidant, and Cytotoxic Activities of Four Curcuma Species and the Isolation of Compounds from Curcuma aromatica Rhizome. DOI: 10.3390/biom10050799
December 2018	PLoS ONE, 2018. Mediterranean herb extracts inhibit microbial growth of representative oral microorganisms and biofilm formation of <i>Streptococcus mutans</i> . DOI: 10.1371/journal.pone.0207574
June 2017	Phytochemistry Letters, 2017. Comparative HPLC-DAD and UHPLC-ESI(-)-HRMS & MS/MS profiling of <i>Hypericum</i> species and correlation with necrotic cell death activity in human leukemic cells. DOI: 10.1016/j.phytol.2017.05.003