Curriculum Vitae

Dr TERMENTZI AIKATERINI

Teaching and Research Faculty Member
Pharmacognosy & Natural Products Chemistry

Department of Health Sciences,
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Athens, October 2026

PERSONAL DATA

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WORK EXPERIENCE

2026- Today: *Teaching and Research Faculty Member*, Pharmacognosy & Natural Products Chemistry, Department of Health Sciences, School of Life and Health Sciences, UNIC Athens

2020: *Visiting Scientist/ Research Associate* at the Group of Chemical Analysis, Miller School of Medicine, University of Miami (UM).

2016 - 2026: *Associate Researcher*, Laboratory of Toxicological Control of Pesticides, Benaki Phytopathological Institute (BPI).

2014 – 2016: *Senior Research Scientist*, Laboratory of Chemical Control of Pesticides, BPI.

2011-2014: *Research Associate* at the Department of Pharmacognosy and Natural Products Chemistry, Faculty of Pharmacy, National and Kapodistrian University of Athens.

2011-2018: *Certified Inspector* and Scientific Advisor for natural and organic cosmetics according to the "Natrue" standard at BIOELLAS on behalf of the German organic cosmetics certification body ECOCONTROL (http://www.natrue.org/).

2010: *Collaborant* at the R&D Department of HITEX Industry, Vannes, France.

2008 - 2010: *Post-doctoral Researcher*. Laboratoire de Pharmacognosie, Université Paris Descartes, Paris.

EDUCATION

2003-May 2008: Ph.D. with honors in Pharmacognosy and Natural Products Chemistry, School of Pharmacy, Aristotle University of Thessaloniki, Greece.

2002-2003: MSc studies on "Pharmacognosy- Natural Pharmaceutical Products". Department of Pharmacognosy and Natural Products Chemisty, School of Pharmacy, Aristotle University of Thessaloniki.

2002: Bachelor's degree from the School of Agriculture, Aristotle University of Thessaloniki (AUTh), Greece.

SCIENTIFIC RESEARCH-RELATED/ TECHNICAL SKILLS

1. Extraction – Isolation – Purification of natural compounds with potential agrochemical, pharmaceutical, cosmeticeutical and nutraceutical interest: Accelerated Solvent Extraction (ASE), Microwave Assisted Extraction (MAE), Supercritical & Subcritical Fluid Extractions (SFE), Column Chromatography (CC), Medium Pressure Liquid Chromatography (MPLC) preparative High Performance Liquid Chromatography (prep-HPLC), Thin Layer Chromatography (TLC), Molecular distillation, Counter Current Partition Chromatography (CPC).
2. Instrumental Analysis and Chemometrics of Natural Products: qualitative and quantitative analysis of natural products and biological fluids, metabolic profiling, proteomics, metabolomics, structural elucidation of natural compounds and biological fluids with the application of several bioanalytical techniques: UHPLC & nano-HPLC OrbriTrap HRMS/MS, nano-ESI/QqTOF MS/MS, HPTLC, HPLC-DAD-QMS(ESI), UPLC-DAD-FLD, HPLC-DAD-ELSD, GC-MS/MS, GC-FID, GC-NPD, Supercritical Fluid Chromatography (SFC-MS).
3. Structural elucidation of natural products with the use of spectrometric and spectroscopic techniques: LC-HRMS, 1D & 2D NMR (1H, 13C, COSY, NOESY, TOCSY, ROESY, HSQC, HMBC).
4. Quality control - Detection of potentially toxic molecules in complex samples using appropriate analytical software packages: Compound Discoverer, Proteome Discoverer, Sieve, Trace Finder, MetWorks, Mass Frontier.
5. Development and Validation of analytical methodologies according to international standards (Eurachem, FDA, ICH, etc). Compliance to ISO17025 standard requirements.
6. Synthesis and semisynthesis/ chemical modification of compounds with potential biological activity.
7. Biological tests: *in vitro* enzymes inhibition, antioxidant activity, antimicrobial

SPECIALIZATION & RESPONSIBILITIES

1. Expert in instrumental analysis, having set up from scratch High-Resolution Mass Spectrometry HRMS/MS platforms for the analysis of small molecules, as well as proteins.
2. Long (over 15 years) hands-on and troubleshooting experience on HRMS and other analytical platforms, e.g. Orbitrap HRMS (Thermo), GC-MS (Agilent), GC-FID (Thermo & Hewlett-Packard), LC-MS (Waters), LC-MS/MS (Agilent), LC-DAD (Thermo, Agilent), etc, at the National & Kapodistrian University of Athens (2011-2015), the Benaki Phytopathological Institute (2015-2019) and the University of Miami (2020).
3. Metabolomics and Proteomics (targeted and un-targeted) projects management and implementation. Familiar after targeted training with specialized software, such as MZ-mine, Metaboanalyst, Sieve, Compound Discoverer, Proteome Discoverer, SkyLine.

4. Validation of analytical methods and preparation of laboratory accreditation according to the ISO 17025: a) Main responsible for the accreditation of the analytical methodology for the "Quantitative determination of Δ9-Tetrahydrocannabinol and other cannabinoids in cannabis samples" at Benaki Phytopathological Institute by the Hellenic Accreditation System (ESYD). b) Accreditation of other analytical methods at the Laboratory of Chemical Control (Chlorothalonil/ Cymoxanil/ Deltamethrin/ Dicampa/ Diquat/ Imazalil/ Imidachloprid/ Tebuconazole).

7. Long hands-on experience on sample preparation protocols (biological liquids, tissues, plant material) for the isolation of both secondary metabolites and proteins. Familiar with high-through-put extraction methodologies, including SPE.

TEACHING

Thesis and Dissertation Advising/ Student Supervision:

Member of the Advisory Committee of the following PhD theses:

- Nikola Milic, 2023-today: "Microorganisms as a source of bioactive natural products with emphasis on compounds derived from extremophilic strains", School of Pharmacy, National & Kapodistrian University of Athens, Chairman Ass.Prof. N. Fokialakis.
- Konstandinos Gaitanis, 2023-today: Exploitation of Greek microbial diversity for the discovery of novel bioactive compounds". School of Pharmacy, National & Kapodistrian University of Athens, Chairman Ass.Prof. N. Fokialakis.
- Marianna Stavropoulou, 2019-2026: "Application of environmentally friendly techniques for the extraction of propolis, aiming to the development of novel natural products". School of Pharmacy, National & Kapodistrian University of Athens, Chairman Prof. N. Aligiannis.
- Eirini Psarou, 2017-2024: "Toxicity assessment of Chios Mastic gum". Laboratory of Toxicology, Benaki Phytopathological Institute, Chairman Dr K. Machera.
- Evangelia Tsiokanos, 2018-2022: "Study of the bioactive secondary metabolites of the Boraginaceae plants in combination to their symbioses". School of Pharmacy, National & Kapodistrian University of Athens, Chairman Prof. N. Fokialakis.
- Elodie Bossard, 2018-2023: "Study of the bioactive secondary metabolites produced by symbiotic microorganisms of the Boraginaceae family". School of Pharmacy, National & Kapodistrian University of Athens, Chairman Prof. N. Fokialakis.
- Mohamed Asmaey, 2017-2021: "Study of novel natural compounds with plant-protection activity". School of Pharmacy, National & Kapodistrian University of Athens, Chairman Prof. N. Aligiannis.

MEMBER OF SCIENTIFIC WORKING GROUPS

1. Member of the BPI Scientific Council (2018-2019 & 2025-2026).
2. Representative of the BPI at the European Safety Authority (EFSA) working group for cannabinoids.
3. Member of the EFSA working group concerning: "Omics in risk assessment: state-of-the-art and next steps", Berlin, Germany, 24-25 April 2018.

4. Representative of the BPI at the Hellenic Food Authority (EFET) working group for olive oil quality and authenticity (September 2017).
5. Participation in a working group for achieving the first level of the 'Business Excellence Model - EFQM' at BPI. (It concerned issues of improving the systematic recording of the Institute's social contribution (May-July 2017))

REVIEWER FOR SCIENTIFIC PROJECTS

2025-Today & 2020-2022: Reviewer for the French National Agency for Research, ANR (https://anr.fr/en/anrs-role-in-research/missions/), Member of the Evaluation Panel CE20, "Biologie des animaux, des organismes photosynthétiques et des microorganisms".

2019: Reviewer for the General Secretariat for Research & Technology in Greece (http://www.gsrt.gr/central.aspx?sId=119I428I1089I323I488743).

2019: Reviewer for the Greek General Secretary of Research and Innovation (GGET)

REVIEWER IN PEER-REVIEWED JOURNALS

Journal of Natural Products / Planta Medica / Journal of Agriculture and Food Chemistry / Phytochemsitry / Food Chemisry / Molecules / Biomolecules / Phytomedicine / Plos One / Frontiers in Pharmacology / Frontiers in Chemistry /etc.

QUALITY CONTROL OF SAMPLES

A. At the Laboratory of Chemical Cotrol of Pesticides, BPI

Market inspection or complaints: chemical testing of **255** Plant Protection Product samples

B. At the Laboratory of Toxicological Control, BPI

Phytochemical analysis of >**1000** samples:

- Phytochemical analysis of natural extracts and full characterization of the secondary metabolic profile following requests from private individuals
- Determination of tetrahydrocannabinol and other cannabinoids (natural and synthetic/semi-synthetic) in cannabis samples following complaints (police-coastguard), private orders, or within the framework of scheduled inspections of producers by the Ministry of Rural Development and Food.

LANGUANGES- COMPUTER SKILLS

Greek: Native/ Mother tongue

English: Certificate of Proficiency, Cambridge Un.; *French:* B1.

Computers: GC-& LC-MS systems operation and data processing (XCalibur, MassLynx, ChromQuest etc); Database generation and LC-MS data processing (Mass Frontier, Trace Finder,

etc); Data mining & software for metabolomics and proteomics applications (MZ-mine, Metaboanalyst, SIMCA, Sieve, Compound Discoverer, Proteome Discoverer, etc); Chem-draw, Marvin, ACD-NM; SciFinder, Science direct & Beillstein databases; NMR system operation and data processing (Varian-Bruker: WinNMR, MestReC, TopSpin)

EXCELLENCE FELLOWSHIPS

2008: Mairie de Paris, for postdoctoral research.
2007: Young scientists' award for poster presentation at the Phytochemical Society of Europe, 50th Anniversary Conference, Cambridge, U.K.
2004: A.U.Th. Research Committee, as a Ph.D. student.
2002: BSc graduation 10th among 250 graduates.
1997: Entered the University 3rd among 450 successful candidates.
1997: Greek Fellowship Foundation (I.K.Y.), as a BSc student.

MEMBER OF SCIENTIFIC COMMUNITIES

2010- Today: Member of the Society for Medicinal Plant and Natural Product Research, GA.
2010- Today: Member of the Hellenic Mass Spectrometry Society.
2008-2010: Member of the Société de Chimie Thérapeutique.
2002-2017: Member of the Phytochemical Society of Europe, PSE.

FUNDED RESEARCH PROJECTS

A. Main contribution in preparation and implementation of EU or Greek Scientific Programmes.

1. H2020-MSCA-RISE-2017: Conservation of European Biodiversity through Exploitation of Traditional Herbal Knowledge for the Development of Innovative Products (EthnoHerbs). Duration: 4 years (2019 - 2025). Total Budget: 2.394.000€ - Personal Lab budget: 189.000€. Coordinator: National & Kapodistrian University of Athens (NKUA). *Lead Researcher/ Coordinator for Benaki Phytopathological Institute (BPI): Dr A. Termentzi.*

2. FP7-PEOPLE-2013-IAPP- 612276 Marie Curie Actions: "Exploitation of microbial biodiversity for the discovery and development of novel cosmeceutical agents – MICROSMETICS: (2013-2017). Coordinator: NKUA
Contribution: Preparation and project submission, analysis of secondary metabolites.

3. GGET PAVET 2013: Development of methodologies for the total qualitative control and characterization of bioactive molecules in extra virgin olive oils and table olives, using modern analytical techniques and chemometrics.- OLA.LA. (2013-2017).
Contribution: Preparation and project submission, analysis of secondary metabolites.

4. GGET PAVET 2013: - Valorization of by-products from the processing of peach, pomegranate, saffron, and wood for obtaining high value-added products with applications in the cosmetics industry – AGROSMETICS (2013-2017).
Contribution: Preparation and project submission, analysis of secondary metabolites.

B. Contribution in the implementation & reporting of funded Research Projects

5. Partnership for the Assessment of Risks from Chemicals (PARC) (2022-currently running), The project aims to the development of next-generation chemical risk assessment to protect human health and the environment. It supports the European Union's Chemicals Strategy for Sustainability and the European Green Deal's "Zero pollution" ambition with new data, knowledge, methods and tools, expertise and networks.
Contribution: in the implementation of P4.3.2_H01&H02 -Perinatal exposure / WP4 (Monitoring and exposure)

6. ESPA 2015-20: PLANTUP-Upgrading the plant Capital- MIS 5002803, GSRT Greek -General Secretariat for Research & Technology. BPI self-managed sub-project: "Study of harmful plant organisms and development of strategies to address them". Total budget: 3.865.625,35€ - BPI budget: 830.000€. Coordinator: National and Kapodistrian University of Athens (NKUA).
Contribution: responsible for metabolomics and proteomics experiments.

7. FP7- REGPOT-2011-1 HEALTH, CSA 284460 : INtegrating the emerging research Potential of the University of Athens Cancer Research Group in the European research area - "INSPIRE": (2011-2014). Coordinator: NKUA.
Contribution: in the implementation of work packages and reporting.

8. ESPA 2007-2013, National Scale Initiative: Creation and support of new innovative enterprises, mainly knowledge-intensive (Spin-off και Spin-out) (2013-2015). Coordinator: NKUA
Contribution: in the implementation and provision of GC-MS, GC-FID, LC-DAD, UPLC-DAD & HPLC-HRMS/MS services.

9. FP7-KBBE-2009-3-1-04, Seventh Framework Program of the European Community for Research, Technological Development and Demonstration Activities "From Biodiversity to Chemodiversity: Novel Plant Produced Compounds with Agrochemical and Cosmetic interest - AgroCos" (2010-2014). Coordinator: NKUA.
Contribution: Development of methodologies for the analysis of extracts, recording of metabolic profiles, and identification of metabolites (dereplication) using HR-MS techniques. Writing of interim reports.

10. FP7-PEOPLE-IAPP-2008 230763 Marie Curie Actions, "Bioactive natural compounds extracted and isolated from olive tree using modern technologies: Probing into their therapeutic potential- OLITEC" (2009-2013). Coordinator: NKUA.
Contribution: Development of methodologies for the analysis of olive and olive oil samples. Transfer of know-how of "green" extraction techniques from the industry. Organization of a workshop and dissemination materials of results. Preparation of interim and final reports.

11. GGET, SYNERGASIES 2009, "Development of natural products and their analogs aimed at the prevention and treatment of osteoporosis: transcriptomic, proteomic, and metabolomic approach- OSTEOPRO" (2009-2013). Coordinator: NKUA.
Contribution: Preparation and chemical analysis/ characterization of natural extracts.

SPECIAL WORKSHOPS & TRAININGS

1. Thermo Scientific training on the operation and use of the Liquid Chromatography system, coupled with a high-resolution mass spectrometer (Q-Exactive Orbitrap HRAM MS, Dionex UltiMate 3000 RSLC & UltiMate 3000 nanoRSLC. November 2-11, 2016.

2. Thermo Scientific training on the operation of spectrum processing, metabolomics and proteomics software: Chromeleon, Xcalibur, Metworks, Mass Frontier, Trace Finder, Proteome & Compound Discoverer, Sieve. November & December 2016 & June 2017.
3. Participation in the "4th Workshop on Holistic Analytical Methods for Systems Biology studies", Thessaloniki, 17-19 April 2016
4. Participation in the educational workshop "Big data analysis in earth sciences 2017 (Earth-Bias2017)", 25 August – 1 September 2017, Rhodes.
5. Participation in the 6th Proteome Discoverer Users' Meeting including the 2nd Compound Discoverer Users' Meeting. 11-12 December 2017, Bremen Germany.
6. EFSA Risk Assessment Research Assembly (RARA), Utrecht, Holland, 7 February 2018
7. Participation in the 24th EFSA Colloquium, OMICS in risk assessment: state-of-the-art and next steps. 24-25 April 2018, Berlin.
8. Participation in the installation and training of a two-dimensional electrophoresis system (2-D electrophoresis Biorad)
9. Training in protein extraction protocols from various substrates (plant and animal tissues, biological fluids, etc.) in collaboration with the IIBEA - Protein Analysis.

INVITED SPEAKER

1. 31st Agrotica, Jan 29th -Feb 1st, 2026, Thessaloniki. Termentzi A. The legislative framework for the industrial hemp in Greece and the potency tests for its certification.
2. Risk Assessment Research Assembly (RARA), EFSA, Utrecht, 7 February 2018. Termentzi A, Machera K, Konstantinidou P, Maragoudakis M. Creation of a HRMS-based platform for risk assessment of food supplements containing botanicals.
3. Workshop for Sage 10, 13 May 2014, Costa Navarino, Pylos, Greece. Polyphenols and other bioactive secondary metabolites in olive products.
4. The Greek Orbitrap Users Workshop, 13 Feb 2014, Alexander Fleming Biomedical Sciences Research Centre, Athens, Greece. Qualitative and quantitative exploration of olive key metabolites using an LC-Orbitrap-based approach.
5. International Workshop in Bioactive compounds from Olea europaea: Chemistry and Biology. Olitec Project 12-13 May 2013, Athens, Greece. From olive drupes to olive oil: An exploration of key metabolites

SCIENTIFIC PUBLICATIONS (*h*-index=23, Total Citations: 1264, source: www.scopus.com)

A. PhD Thesis

"Phytochemical analysis of *Sorbus domestica* (Rosaceae) fruits' extracts and assessment of their antioxidant capacity and inhibition of aldose reductase activity". Aristotle University of Thessaloniki archives, 2008.

B. Publications in peer-reviewed journals

1. Termentzi A., Kefalas P., Kokkalou E. Antioxidant activity of various extracts and fractions of *Sorbus domestica* fruits at different maturity stages. Food Chemistry, 98: 599-608; 2008. https://doi.org/10.1016/j.foodchem.2005.06.025
2. Termentzi A., Kefalas P., Kokkalou E. LC-DAD-MS analysis of the phenolic content of *Sorbus domestica* fruits in relation to their maturity stage. Food Chemistry, 106: 1234-1245; 2008. https://doi.org/10.1016/j.foodchem.2007.07.021
3. Termentzi A., Kokkalou E. LC-DAD-MS (ESI+) analysis and antioxidant capacity of *Crocus sativus* petal extracts. Planta Medica, 74: 573-581; 2008. DOI: 10.1055/s-2008-1074498
4. Armata M., Gabrieli C., Termentzi A., Zervou M., Kokkalou E. Constituents from *Sideritis syriaca*. ssp. syriaca (Lamiaceae) and their antioxidant activity. Food Chemistry, 111: 179-186; 2008. https://doi.org/10.1016/j.foodchem.2008.03.061
5. Termentzi A., Alexiou P., Demopoulos V., Kokkalou E. Inhibitory effect of *Sorbus domestica* fruits' extracts on aldose reductase enzyme in correlation to their phenolic content. Pharmazie, 63: 693-696; 2008. https://doi.org/10.1691/ph.2008.8567
6. Kanaze F., Termentzi A., Gabrieli C, Niopas I., Georgarakis M., Kokkalou E. The Phytochemical Analysis and Antioxidant Activity Assessment of Orange Peels (*Citrus sinensis*) Cultivated in Greece-Crete indicates a new commercial source of Hesperidin. Biomedical Chromatography, 23: 239-249; 2009. https://doi.org/10.1002/bmc.1090
7. Termentzi A., Zervou M., Kokkalou E. Isolation and structure elucidation of novel phenolic constituents from *Sorbus domestica* fruits. Food Chemistry, 116: 371-381; 2009. https://doi.org/10.1016/j.foodchem.2009.02.019
8. Plioukas M., Termentzi A., Gabrieli C., Zervou M., Kefalas P., Kokkalou E. Novel acylated flavones from *Sideritis raeserii* ssp. *raeserii*. Food Chemistry, 123: 1136-1141; 2010. https://doi.org/10.1016/j.foodchem.2010.05.076
9. Termentzi A., Khouri I., Gaslonde T., Prado S., Saint-Joanis B., Bardou F., Amanatiadou E.P., Vizirianakis I., Cole S.T., Janin Y., Daffé M., Tillequin F., Michel S. Synthesis, biological activity, and evaluation of the mode of action of novel antitubercular benzofurobenzopyrans substituted on A ring. European Journal of Medicinal Chemistry, 45: 5833-5847; 2011. https://doi.org/10.1016/j.ejmech.2010.09.048
10. Termentzi A., Fokialakis N., Skaltsounis A.L. Natural resins and bioactive natural products thereof as potential antimicrobial agent. Current Pharmaceutical Design, 17: 1267-1290; 2011. DOI: 10.2174/138161211795703807
11. Papachristoforou A., Kagiava A., Papaefthimiou C., Termentzi A., Fokialakis N., Skaltsounis A.L., Watkins M., Arnold G., Theophilidis G. The bite of the honeybee: 2-heptanone acts as a local anesthetic in insects and mammals. PLoS ONE, 7: art. no. e47432; 2012. https://doi.org/10.1371/journal.pone.0047432
12. Kanakis P., Termentzi A., Michel T., Gikas E., Halabalaki M., Skaltsounis A.L. From olive drupes to olive oil. An HPLC-Orbitrap-based qualitative and quantitative exploration of olive key metabolites. Planta Medica, 79: 1576-1587; 2013. DOI: 10.1055/s-0033-1350823

13. Papachristoforou A., Termentzi A., Halabalaki M., Koutouvela E. The application of highly centrifuged honey as an improved diet for experimentally caged honey bees. Journal of Apicultural Research, 52: 179-183; 2013. https://doi.org/10.3896/IBRA.1.52.5.01
14. Keiler A.M., Zierau O., Bernhardt R., Scharnweber D., Lemonakis N., Termentzi A., Skaltsounis A.L., Vollmer G., Halabalaki M. Impact of a functionalized olive oil extract on the uterus and the bone in a model of postmenopausal osteoporosis. European Journal of Nutrition, 53: 1073-1081; 2014. https://doi.org/10.1007/s00394-013-0609-4
15. Christodoulakis N.S., Mamoucha S., Termentzi A., Fokialakis N. Leaf structure and histochemistry of the hardy evergreen *Euphorbia characias* L. (Mediterranean spurge). Flora: Morphology, Distribution, Functional Ecology of Plants, 210: 13-18; 2015. https://doi.org/10.1016/j.flora.2014.10.008
16. Michel T., Khlif I., Kanakis P., Termentzi A., Allouche N., Halabalaki M., Skaltsounis A.L. UHPLC-DAD-FLD and UHPLC-HRMS/MS based metabolic profiling and characterization of different *Olea europaea* organs of Koroneiki and Chetoui varieties. Phytochemistry Letters, 11: 424-439; 2015. https://doi.org/10.1016/j.phytol.2014.12.020
17. Angelis A., Hamzaoui M., Aligiannis N., Nikou T., Michailidis D., Gerolimatos P., Termentzi A., Hubert J., Halabalaki M., Renault J.H., Skaltsounis A.L. An integrated process for the recovery of high added-value compounds from olive oil using solid support free liquid-liquid extraction and chromatography techniques. Journal of Chromatography A, 1491:126-136; 2017. https://doi.org/10.1016/j.chroma.2017.02.046
18. Nikolaivits E., Termentzi A., Fokialakis N., Skaltsounis A.L., Topakas E. Enzymatic tailoring of oleuropein from *Olea europaea* leaves and product identification by HRMS/MS spectrometry. Journal of Biotechnology, 253: 48-54; 2017. https://doi.org/10.1016/j.jbiotec.2017.05.020
19. Xynos N., Termentzi A., Fokialakis N., Skaltsounis A.L., Aligiannis N. Supercritical CO_2 extraction of mastic gum and chemical characterization of bioactive fractions using LC-HRMS/MS and GC-MS. Journal of Supercritical Fluids. 133: 349-356; 2018. https://doi.org/10.1016/j.supflu.2017.10.011
20. Nikolaivits E., Agrafiotis A, Termentzi A., Machera K., Goff G.L., Álvarez P., Chavanich S., Benayahu Y., Ouazzani J., Fokialakis N., Topakas E. Unraveling the detoxification mechanism of 2,4-dichlorophenol by marine-derived mesophotic symbiotic fungi isolated from marine invertebrates. Marine Drugs; 17: Article number 564; 2019. https://doi.org/10.3390/md17100564
21. Tsafantakis N., Zelianeos K., Termentzi A., Vontzalidou A., Aligiannis N., Fokialakis N. Triterpenes from *Echinops spinosissimus* Turra subsp. *spinosissimus*. Phytochemisty Letters; 30: 273-277, 2019. https://doi.org/10.1016/j.phytol.2019.02.005
22. Beris D., Kotsaridis K. Vakirlis N., Termentzi A. Theologidis I., Moury B., Vassilakos N. The plasma membrane Cation binding protein 1 affects accumulation of Potato virus Y in pepper both at the systemic level and in protoplasts. Virus Research; 280: 197899, 2020. https://doi.org/10.1016/j.virusres.2020.197899
23. Tsekouras V., Mavrikou S., Vlachakis D., Makridakis M., Stroggilos R., Zoidakis J., Termentzi A., Moschopoulou G., Kintzios S. Proteome analysis of leaf, stem and callus in *Viscum album* and identification of lectins and viscotoxins with bioactive properties. Plant Cell, Tissue and Organ Culture; 141: 167–178, 2020. https://doi.org/10.1007/s11240-020-01777-7
24. Hatzioannou A., Banos A., Sakelaropoulos T., Fedonidis C., Vidali M.-S., Köhne M., Händler K., Boon L., Henriques A., Koliaraki V., Georgiadis P., Zoidakis J., Termentzi A., Beyer M., Chavakis T., Boumpas D., Tsirigos A., Verginis P. An intrinsic role of IL-33 in Treg cell-mediated tumor immunoevasion. Nature Immunology; 21: 75-85; 2020. https://doi.org/10.1038/s41590-019-0555-2
25. Stavropoulou, M.-I., Termentzi, A., Kasiotis, K.M., Cheilari, A., Stathopoulou, K., Machera, K., Aligiannis, N. Untargeted Ultrahigh-Performance Liquid Chromatography-Hybrid Quadrupole-Orbitrap Mass Spectrometry (UHPLC-HRMS) Metabolomics Reveals Propolis Markers of Greek and Chinese Origin. Molecules; 26(2): 456, 2021. https://doi.org/10.3390/molecules26020456
26. Tsiokanos, E., Tsafantakis, N., Termentzi, A., Aligiannis, N., Skaltsounis, L.A., Fokialakis, N. Phytochemical characteristics of bergamot oranges from the Ionian islands of Greece: A multi-

analytical approach with emphasis in the distribution of neohesperidose flavanones. Food Chemistry; 343: 128400, 2021. https://www.sciencedirect.com/science/article/pii/S0308814620322627?via%3Dihub
27. Sarri E., Termentzi A., Abraham E.M., Papadopoulos G.K., Baira E., Machera K., Loukas V., Komaitis F., Tani E. Salinity stress alters the secondary metabolic profile of *M. sativa*, *M. arborea* and their hybrid (Alborea). International Journal of Molecular Sciences; 22: 4882, 2021. https://doi.org/10.3390/ijms22094882
28. Cartabia A., Tsiokanos E., Tsafantakis N., Lalaymia I., Termentzi A., Miguel M., Fokialakis N., Declerck S. The arbuscular mycorrhizal fungus *Rhizophagus irregularis* MUCL 41833 modulates metabolites production of *Anchusa officinalis* L. under semi-hydroponic cultivation. Frontiers in Plant Science; 121: Article nb 724352, 2021. https://doi.org/10.3389/fpls.2021.724352
29. Zerva A., Pentari C., Termentzi A., America A., Zouraris D., Bhattacharya S, Karantonis A., Zervakis G., Topakas E. Discovery of two novel laccase-like multicopper oxidases from *Pleurotus citrinopileatus* and their application in phenolic oligomer synthesis. Biotechnology for Biofuels; 14(1):83, 2021. https://doi.org/10.1186/s13068-021-01937-7
30. Fernandez J., Termentzi A., Mandova T., Hammad K., Machera K., Magiatis P., Michel S., Zucolotto S., Grougnet R. Detection, isolation and NMR quantitation of the nitrile glucoside sarmentosin from *Bryophyllum pinnatum* hydroethanolic extract. Journal of Agricultural and Food Chemistry; 69: 8081 – 8089, 2021. https://doi.org/10.1021/acs.jafc.1c01414
31. Margaritopoulou T., Kotopoulis D, Papadakis I., Anagnostopoulos C., Baira E, Termentzi A, Vichou A-E, Leifert C, Kizis D., and Markellou E. Enriched HeK4me3 signatures at SABP2 and YDA Pm-0 genes prime courgette SAR responses against powdery mildew. Plant Physiology, 00:1-17, 2022. https://doi.org/10.1093/plphys/kiab453
32. Chasiotis V., Tsakirakis A., Termentzi A. Machera K., Filios A. Drying and quality characteristics of *Cannabis sativa* L. inflorescences under constant and time-varying convective drying temperature schemes. Thermal Science and Engineering Progress, 28: 101076, 2022. https://doi.org/10.1016/j.tsep.2021.101076
33. Tsiokanos E., Cartabia A., Tsafantakis N., Lalaymia I., Termentzi A., Miguel M., Declerck S., Fokialakis N. The metabolic profile of *Anchusa officinalis* L. differs according to its associated arbuscular mycorrhizal fungi. Metabolites. 2022; 12(7):573. https://doi.org/10.3390/metabo12070573
34. Theologidis I., Makridakis M., Termentzi A., Baira E, Zoidakis J, Kizis D, Proteome profiling of Cucurbita pepo phylosphere after infection by Podosphaera xanthii and application of Reynoutria sachalinensis extract. Appl. Sci. 2024, 14(21), 10061; https://doi.org/10.3390/app142110061.
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