



Gialouris Panagiotis-Loukas

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Education

B.Sc. in Chemistry (2015-2019), National and Kapodistrian University of Athens, Grade: 7.46/10

M.Sc. in Chemical Analysis & Quality Control (2019-21), National and Kapodistrian University of Athens

Ph.D. in Food Chemistry (2021-present), National and Kapodistrian University of Athens

Research Topics:

Undergraduate Thesis: "Development of a targeted screening methodology, using Liquid Chromatography combined with a High-Resolution Mass Spectrometry (LC-ESI-QToF-MS), aiming to detect the adulteration of olive oil (2019)

Master Thesis: "Study of static Headspace and Headspace Solid Phase MicroExtraction (HS-SPME) as a tool for Greek honey characterization and authenticity assessment (2021)

Ph.D. Thesis: "Study and promotion of Greek foods and beverages of national priority- Determination of their volatile composition and bioactive content with cutting- edge mass spectrometry techniques

Research Interests

- ❖ General research interests: Food Authenticity, Food Metabolomics, Food Volatomics, High Resolution Mass Spectrometry (HRMS), Gas Chromatography (GC), Liquid Chromatography (LC), Chemometrics
- ❖ Expert-knowledge in HRMS
- ❖ Extended experience in the development and application of metabolomics and volatomics methodologies following target, suspect and non-target screening workflows
- ❖ Food Authenticity, Food Characterization, Food Metabolomics, Food Volatomics, Detailed food characterization- Determination of potential authenticity markers in food products, Mass Spectrometry, Liquid Chromatography, Gas Chromatography
- ❖ Developing of innovative analytical methods following optimization and validation approaches

Publications - Conferences Presentations

1. Georgios A. Koulis, Aristeidis S. Tsagkaris, Panagiota A. Katsianou, **Panagiotis-Loukas P. Gialouris**, Ioannis Martakos, Fotis Stergiou, Alberto Fiore, Eleni I. Panagopoulou, Sofia Karabournioti, Carsten Baessmann, Noud van der Borg, Marilena E. Dasenaki, Charalampos Proestos and Nikolaos S. Thomaidis, Thorough Investigation of the Phenolic Profile of Reputable Greek Honey Varieties: Varietal Discrimination and Floral Markers Identification Using Liquid Chromatography–High-Resolution Mass Spectrometry, *Molecules*, 2022
2. **Panagiotis-Loukas Gialouris**, Marilena Dasenaki, Nikolaos Thomaidis and Charalampos Proestos, A detailed characterization of Greek wines in terms of their phenolic composition, volatiles and mineral content, ACAC 2022 (poster presentation)
3. Marilena Dasenaki, Georgios Koulis, **Panagiotis-Loukas Gialouris**, Charalampos Proestos and Nikolaos Thomaidis, Greek honey authenticity and characterization– studying the gold of nature, ACAC 2022 (oral presentation)
4. Maria-Anthi Priakou, Marios Kostakis, Erklaylle Gabriely Custodio da Silva, Maria Karvouni, **Panagiotis-Loukas Gialouris**, Carolina Santos Silva, Nikolaos Thomaidis and Marilena Dasenaki, Elemental profile monitoring and variety discrimination of Greek honeys, ACAC 2022 (poster presentation)
5. **Panagiotis-Loukas P. Gialouris**, Georgios A. Koulis, Marilena E. Dasenaki and Nikolaos S. Thomaidis, Volatile-compound fingerprinting by both Headspace-SPME(HS-SPME) and static Headspace as a tool for the assessment of honey’s authenticity, 12th International Conference on Instrumental Methods of Analysis, IMA 2021, 20-23 Sept 2021 (poster presentation)
6. Georgios A. Koulis, Panagiota A. Katsianou, Ioannis Martakos, **Panagiotis-Loukas Gialouris**, Aalizadeh Reza, Marilena E. Dasenaki, Charalampos Proestos, Nikolaos S. Thomaidis and Carsten Baessman, Botanical type discrimination of well-known Greek honey varieties by targeted and untargeted metabolomics making use of UPLC-QToF MS, ASMS 2021 (poster presentation)

Professional Affiliations

Association of Greek Chemists, 2021-Present

Contact information

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