

CURRICULUM VITAE

PERSONAL DATA

Surname: Beteinakis

First Name: Stavros

Academic Position: Post-Doctoral
Researcher

Date of Birth: December 14th, 1992

Place of Birth: Chania, Greece

Professional Address: Division of
Pharmacognosy & Natural Products
Chemistry, School of Pharmacy, NKUA,
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EDUCATIONAL QUALIFICATIONS

- December 2020: **PhD in Pharmaceutical Sciences**, NKUA. Thesis Title (Division of Pharmacognosy and Natural Products Chemistry): "Quality assessment of Extra Virgin Olive Oil (EVOO) and Edible Olive Drupes using NMR spectroscopy and Mass Spectrometry (MS) metabolic profiling approaches. Quantification studies and identification of biomarker compounds."
- September 2015: **Degree/MSc in Pharmacy**, NKUA. Thesis Title (Division of Pharmacognosy and Natural Products Chemistry): "Nutritive Value of Greek Edible Greens: Phytochemical Analysis of the Plant *Crithmum maritimum* L."

WORK EXPERIENCE

- October 2021 – January 2022: Experienced researcher at FoodQS GmbH NMR Competence Center through the "Olive-Net" project (H2020 – MSCA – RISE – 2016, Project ID: 734899), Bayreuth, Germany
- March 2021 – September 2021: Research collaborator for the Division of Pharmacognosy and Natural Products Chemistry of NKUA at research program "Design and development of novel compounds based on bioactive metabolites of the Olive tree (*Olea europaea*) with anti-inflammatory and anti-cancer activity" (K.E. 16901)
- November 2020: Research collaborator for the Division of Pharmacognosy and Natural Products Chemistry of NKUA at research program "Bioactive compounds from *Olea europaea*: research and application in the food, cosmetics and pharmaceutical industries" (K.E. 16780)
- August 2020 – March 2021: Research collaborator for the Division of Pharmacognosy and Natural Products Chemistry of NKUA at research program "Dairy products enriched with natural constituents from Epirus" (K.E. 15434) – Development and application of analytical methods for the determination of the composition of natural products from Epirus
- February 2020 – July 2020: Research collaborator for the Division of Pharmacognosy and Natural Products Chemistry of NKUA at research program "Quality and authentication of final olive drupe and oil products, and health claim – Improvement of final products" (K.E. 15438) – Development and application of metabolomics methods using NMR spectroscopy for the mapping of Greek olive oils and edible olives
- December 2019 – January 2020: Early-stage researcher at SERGAS, IDIS - NEIRID Lab through the "Olive-Net" project (H2020 – MSCA – RISE – 2016, Project ID: 734899), Santiago de Compostela, Spain

- July 2018 – September 2018: Early-stage researcher at ALNuMed GmbH through the “Olive-Net” project (H2020 – MSCA – RISE – 2016, Project ID: 734899), Bayreuth, Germany
- 2017 – 2018: Demonstrator for Pharmacognosy Laboratories (NKUA) for undergraduate students
- 2015: Practice as a pharmacist at open-to-the-public pharmacy, Athens, Greece (6 months)
- 2014: Practice as a pharmacist at “Sotiria” Hospital, Athens, Greece (6 months)

RESEARCH INTERESTS

Development and application of **NMR & LC-HRMS-based metabolomics** approaches on food commodities and plants for **authenticity** and **quality control** purposes through the discovery of related **biomarkers**.

Development and application of **quantitative** and **qualitative** methodologies for the analysis of extra virgin olive oils (EVOO) and other foods using HPLC-DAD, LC-HRMS and NMR.

Separation and isolation of natural products using chromatographic techniques (HPLC, VLC). **Structure elucidation** of natural products via spectroscopic methods (LC-HRMS & HRMS/MS, UV-Vis, 1&2D NMR).

investigation of the role of nutrition on metabolic disorders and the discovery of related biomarkers.

PARTICIPATION IN CONFERENCES

1. **9th Panhellenic Conference of the Greek Lipid Forum (GLF) – Virtual, October 22, 2021.** Beteinakis, S; Papachristodoulou, A; Mikros, E; Halabalaki, M: *“Comparison of NMR and LC-HRMS Platforms in the Metabolic Profiling of Greek Table Olives”*
2. **69th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA), Bonn, Germany – Virtual, September 5-8, 2021.** Tzimas, PS; Petrakis, EA; Papadimitriou, A; Beteinakis, S; Halabalaki, M; Skaltsounis, AL: *“Analytical and chemometric approaches for quality characterization of Cannabis sativa L. with focus on cannabinoids”*
3. **69th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA), Bonn, Germany – Virtual, September 5-8, 2021.** Anagnostou, C; Papachristodoulou, A; Beteinakis, S; Dionysopoulou, M; Dimou, S; Diallinas, G; Halabalaki, M: *“Phytochemical investigation, characterization and antimicrobial evaluation of the extracts and isolated compounds of Pistachia lentiscus var Chia leaves”*
4. **69th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA), Bonn, Germany – Virtual, September 5-8, 2021.** Lemus Ringele, GB; Beteinakis, S; Gkiouvetidis, P; Axiotis, E; Papachristodoulou, A; Mikros, E; Halabalaki, M: *“NMR-based metabolite profiling and application of STOCSY in honey quality control”*
5. **69th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA), Bonn, Germany – Virtual, September 5-8, 2021.** Beteinakis, S; Iliou, A; Papachristodoulou, A; Benaki, D; Mikros, E; Halabalaki, M: *“Integrated NMR and LC-MS metabolite profiling data for the quality control of table olives”*
6. **17th Annual Conference of the Metabolomics Society, METABOLOMICS 2021 – Virtual, June 22-24, 2021.** Beteinakis, S; Lemus Ringele, GB; Papachristodoulou, A; Mikros, E; Halabalaki, M: *“NMR metabolic profiling in the quality control of food commodities – Exploitation of the STOCSY statistical tool for markers’ identification”*
7. **18th Hellenic Symposium on Medicinal Chemistry (HSMC), Athens, Greece – Virtual, February 25-27, 2021.** Beteinakis, S; Papachristodoulou, A; Gogou, G; Katsikis, S; Mikros, E; Halabalaki, M: *“NMR-based Metabolic Profiling of Extra Virgin Olive Oil (EVOO) and Table Olives – Exploitation of the STOCSY Tool for Biomarker Identification”*

8. **67th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA), Innsbruck, Austria, September 1-5, 2019.** [Beteinakis, S](#); Katsikis, S; Cicarevic, D; Kolb, P; Schwarzinger, S; Mikros, E; Skaltsounis, AL; Halabalaki, M; *“Integrated NMR-based Profiling and HPLC-DAD analysis for Extra Virgin Olive Oil (EVOO) Authentication Assessment”*
9. **30th International Symposium on the Chemistry of Natural Products & the 10th International Congress on Biodiversity (ISCNP30 & ICOB10), Athens, Greece, November 25-29, 2018.** [Beteinakis, S](#); Katsikis, S; Mikros, E; Skaltsounis, AL; Halabalaki, M; *“Olive Oil’s Biophenols Quantitative Study Using NMR, LC-HRMS & MS/MS Methods”*
10. **3rd International Conference on Natural Products Utilization (ICNPU), Bansko, Bulgaria, October 18-21, 2017.** [Beteinakis, S](#); Stathopoulos, P; Michailidis, D; Angelis, A; Argyropoulou, A; Halabalaki, M; Bonn, G; Skaltsounis, AL; *“Comparative quantitative and qualitative studies of extra virgin olive oil using HPTLC, HPLC-DAD, NMR, LC-HRMS & MS/MS methods”*
11. **65th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA), Basel, Switzerland, September 3-7, 2017.** [Beteinakis, S](#); Stathopoulos, P; Michailidis, D; [Angelis, A](#); Argyropoulou, A; Halabalaki, M; Bonn, G; Skaltsounis, AL; *“Comparative quantitative and qualitative studies of extra virgin olive oil using HPTLC, HPLC-DAD, NMR, LC-HRMS & MS/MS methods”*
12. **1st International Multidisciplinary Conference on Nutraceuticals and Functional Foods, Kalamata, Greece, July 7-9, 2016.** Vougianniopoulou, K; Brieudes, V; Sklirou, AD; Angelis, A; [Beteinakis, S](#); Mikropoulou, E; Mitakou, S; Trougakos, IP; Halabalaki, M; Skaltsounis, AL; *“Cooked edible greens of Greece: “chórta” and their decoctions as sources of valuable water-soluble phytonutrients”*
13. **10th International Symposium on Chromatography of Natural Products, Lublin, Poland, June 6-9, 2016.** [Stathopoulos, P](#); Sarikaki, G; Lalioti, M; [Beteinakis, S](#); Triantopoulou, A; Gikas, E; Halabalaki, M; Jakschitz, T; Corradini, D; Bonn, G; Skaltsounis, AL; *“Development and application of analytical approaches for Extra Virgin Olive Oil (EVOO) Biophenols determination. Mapping of Greek EVOOs”*
14. **7th International Symposium on Recent Advances in food analysis. Prague, Czech Republic, November 3-6, 2015.** [Vougianniopoulou, K](#); Brieudes, V; Sklirou, AD; Angelis, A; [Beteinakis, S](#); Mikropoulou, E; Mitakou, S; Trougakos, IP; Halabalaki, M; Skaltsounis, AL; *“Cooked edible greens of Greece: “chórta” and their decoctions as sources of valuable water-soluble phytonutrients”*

LANGUAGES

- Greek (mother tongue)
- English (C2)
- German (B1)

PUBLICATIONS

1. [Beteinakis, S](#); Papachristodoulou, A; Mikros, E; Halabalaki, M. From sample preparation to NMR-based metabolic profiling in food commodities: The case of table olives. *Phytochemical Analysis*, **2021**, 1-11. DOI: 10.1002/pca.3070
2. Zervas, A; Lelovas, P; Galanos, A; Galanis, D; Makropoulou, M; [Beteinakis, S](#); Kourkoulis, S; Triantafyllou, A; Chronopoulos, E; Skaltsounis, AL; Dontas, I. The effect of table olive wastewater extract administration on the adult ovariectomised rat model of osteoporosis. *British Journal of Nutrition*, **2021**, 1-10. DOI: 10.1017/S0007114521000465

3. Beteinakis, S; Papachristodoulou, A; Gogou, G; Katsikis, S; Mikros, E; Halabalaki, M. NMR-Based Metabolic Profiling of Edible Olives—Determination of Quality Parameters. *Molecules*, **2020**, *25*, 3339. DOI: 10.3390/molecules25153339

ACHIEVEMENTS

Scholarship for PhD studies, 2016, **State Scholarships Foundation**

MEMBERSHIPS

Society for Medicinal Plant and Natural Product Research (GA)