

▶ Anastasia Kritikou

Ph.D. Candidate at University of Athens

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Education

B.Sc. in Chemistry (2012-2016), University of Patras, Grade: 7.92/10

M.Sc. in Analytical Chemistry (2016-2018), National and Kapodistrian University of Athens, Grade: 9.38/10

Ph.D. in Analytical Chemistry (2019-to date), National and Kapodistrian University of Athens

Research Topics:

Undergraduate Thesis: "Determination of DNA sequences by chemiluminescence", Laboratory of Analytical Chemistry, Chemistry Department, University of Patras, Greece (2015-2016).

Supervisor Professor: Th. Christopoulos

Master Thesis: "Development of a multi-residue methodology for the determination of thyreostats in food of animal origin by hydrophilic interaction liquid chromatography-tandem mass spectrometry (HILIC-MS/MS)", Laboratory of Analytical Chemistry, Chemistry department, University of Athens, Greece (2017-Present).
Supervisor Professor: N. Thomaidis

Ph.D. Thesis: "Development of advanced methodologies based on High Resolution Mass Spectrometry (MALDI-ToFMS) for food authenticity characterization.", Laboratory of Analytical Chemistry, Chemistry department, University of Athens, Greece (2019-to date)

Research Interests

General research interests: Food Authenticity, Food Metabolomics, Food Proteomics, High Resolution Mass Spectrometry (HRMS), Development of LC-MS/MS methods, Chromatographic techniques, Chemometric

Projects:

2018 –2021: Foodomics-GR – Molecular Characterization of Food (funding: EPANEK-NSFR)

2016-2017: EMBLAS II, EU/UNDP Project: Improving environmental monitoring in the Black Sea. Analysis of water framework priority substances and screening of black sea specific pollutants in water biota and sediment samples obtained during the National Pilot Monitoring Studies and Joint Open Sea Surveys and risk assessment of identified pollutants

Publications in journals and books

1. Anastasia Zerva, Athanasios Limnaios, **Anastasia S Kritikou**, Nikolaos S Thomaidis, Petros Taoukis, Evangelos Topakas, A novel thermophilic β -galactosidase from *Thermothielavioides terrestris* for the production of galactooligosaccharides from acid whey, Food Chemistry, 2019 (to be published)

Conferences Presentations

1. **Anastasia S. Kritikou**, Dimitrios E. Damalas, Ioanna V. Barla, Reza Aalizadeh, Volker Sauerland, Carsten Baessmann, Nikolaos S. Thomaidis, Novel MALDI-TOF-MS-based Methodology for Rapid Detection Of PDO Feta Cheese Adulteration, 11th International Conference on Instrumental Methods of Analysis, IMA 2019, Ioannina, Greece, 22-25 Sept 2019. (poster presentation)
2. Athanasia K. Christopoulou, **Anastasia S. Kritikou**, Marilena E. Dasenaki, Nikolaos S. Thomaidis, Development of a Multi-Residue Methodology for the Determination of Veterinary Drugs in Animal Feed By RP-HPLC-MS/MS, 11th International Conference on Instrumental Methods of Analysis, IMA 2019, Ioannina, Greece, 22-25 Sept 2019. (poster presentation)
3. **Anastasia S. Kritikou**, Marilena E. Dasenaki, Nikolaos S. Thomaidis, "Development Of A Multi-Residue Methodology For The Determination Of Thyreostats In Bovine Muscle Tissue By Hydrophilic Interaction Liquid Chromatography-Tandem Mass Spectrometry (HILIC-MS/MS)", 11th Aegean Analytical Chemistry Days , AACD 2018, Chania, Crete, Greece, 25-29 Sept 2018. (oral presentation)

Professional Affiliations

Association of Greek Chemists, 2016-Present

Hellenic Mass Spectrometry Society, 2018-Present

Contact information

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