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Education

B.Sc. in Chemistry (2001-2006), University of Athens, Grade: 6.8/10

M.Sc. in Chemical Analysis & Quality Control (2006-2008), University of Athens

Ph.D. in Analytical Chemistry (2009-2015), University of Athens

Research Topic:

Undergraduate Thesis: "Validation of the simultaneous determination of 10 sulfonamides in fish tissue with HPLC-UV, according to Commission Decision 657/2002/EC", Laboratory of Analytical Chemistry, Chemistry department, University of Athens, Greece (2006)

Master Thesis: "Development and validation of methods for the determination of sulfonamides in fish tissue by liquid chromatography and UV (LC-UV) and tandem mass spectrometric detection (LC-MS/MS)", Laboratory of Analytical Chemistry, Chemistry department, University of Athens, Greece (2006-2008)

Ph.D. Thesis: "Development of methods for the determination of veterinary drugs in food matrices by Liquid Chromatography – Mass Spectrometry", Laboratory of Analytical Chemistry, Chemistry department, University of Athens, Greece (2009-2015)

Post-Doctoral Research: "Identification of environmental and food contaminants using LC-MS/MS and LC-HRMS"

Research Interests

General research interests: Mass Spectrometric Detection, Development of LC-MS/MS methods, High Resolution Mass Spectrometry (HRMS), Food And Environmental Analysis

Projects: 2011 –2015: Heracleitus II. Investing in knowledge society through the European Social Fund

Publications in journals

1. Pablo Gago Ferrero, Viola Borova, Marilena Dasenaki, Nikolaos S. Thomaidis, Simultaneous determination of 148 pharmaceuticals and illicit drugs in sewage sludge based on ultrasound assisted extraction and liquid chromatography-tandem mass spectrometry, *Analytical and Bioanalytical Chemistry*, **2015**, accepted
2. Marilena E. Dasenaki, Anna A. Bletsou, Nikolaos S. Thomaidis "ANTIBACTERIALS" (chapter 38) in "Handbook of Food Analysis, Third Edition" by Leo M.L. Nollet and Fidel Toldra (Eds), CRC Press, Boca Raton, FL, **2014**, in press.

3. Akinranti Ajibola, Pablo Gago-Ferrero, Viola L. Borova, Marilena E. Dasenaki, Anna A. Bletsou and Nikolaos S. Thomaidis "Benzosulfonamides in wastewater: method development, occurrence and removal efficiencies" *Chemosphere*, **2014**, in press (doi: 10.1016/j.chemosphere.2014.04.003)
4. Olga S. Arvaniti, Alexandros G. Asimakopoulos, Marilena E. Dasenaki, Elpida I. Ventouri, Athanasios S. Stasinakis, Nikolaos S. Thomaidis "Simultaneous determination of eighteen perfluorinated compounds in dissolved and particulate phases of wastewater, and in sewage sludge by liquid chromatography - tandem mass spectrometry" *Analytical Methods*, **2014**, 6, 1341-1349 (doi:10.1039/C3AY42015A)
5. Anna A. Bletsou, Ahmad H. Hanafi, Marilena E. Dasenaki, and Nikolaos S. Thomaidis "Development of specific LC-ESI-MS/MS methods to determine bifenthrin, lufenuron and iprodione residue levels in green beans, peas and chili peppers under Egyptian field conditions", *Food Analytical Methods*, **2013**, 6, 1099-1112 (doi: 10.1007/s12161-012-9515-2)
6. M.E. Dasenaki, N.S. Thomaidis "Multi-residue determination of seventeen sulfonamides and five tetracyclines in fish tissue using a multi-stage LC-ESI-MS/MS approach based on advanced mass spectrometric techniques" *Analytica Chimica Acta*, **2010**, 672, 93-102 (doi: 10.1016/j.aca.2010.04.034)
7. S. Drivelos, M.E. Dasenaki, N.S. Thomaidis "Determination of isoascorbic acid in fish tissue by hydrophilic interaction liquid chromatography – ultraviolet detection" *Analytical & Bioanalytical Chemistry*, **2010**, 397, 2199-2210 (doi: 10.1007/s00216-010-3665-0)

Conferences Presentations

1. Marilena E. Dasenaki, Anna A. Bletsou, Nikolaos S. Thomaidis, Tony Drury, Quantitative multi-residue method for 150 veterinary drugs and pharmaceuticals in meat using liquid chromatography quadrupole-time-of-flight mass spectrometry (LC-QToF-MS), 248th ACS National Meeting & Exposition, 2014, San Francisco
2. Anna A. Bletsou, Marilena E. Dasenaki, Nikolaos S. Thomaidis, Emmanouil I. Dasenakis, Tony Drury, Petra Decker "Screening of pesticides residues and their metabolites in environmental samples using liquid chromatography quadrupole-time-of-flight mass spectrometry with an accurate-mass database", 13th IUPAC International Congress of Pesticide Chemistry, 2014, San Francisco
3. Christina S. Michali, Marilena E. Dasenaki, Nikolaos S. Thomaidis, "Ionization study and chromatographic separation of aminoglycosides with HILIC-MS/MS", 8th International Conference on Instrumental Methods of Analysis Modern Trends and Applications, Thessaloniki, 2013
4. M. G. Kostakis, M. E. Dasenaki, C. E. Efstathiou and N. S. Thomaidis, "Determination of biogenic and volatile amines in fish by Hydrophilic Interaction Liquid Chromatography - Tandem Mass Spectrometry", 8th International Conference on Instrumental Methods of Analysis Modern Trends and Applications, Thessaloniki, 2013.
5. V.L. Borova, M.E. Dasenaki, N.C. Maragkou, A.S. Stasinakis N.S. Thomaidis "Trends in discharge of 160 pharmaceuticals, controlled psychoactive and illicit drugs and their metabolites into the sewage treatment plant of Athens, Greece" IWA 2013, Micropol & Eco hazard 2013, the 8th IWA Specialist Conference on Assessment and Control of Micropollutants /Hazardous Substances in Water method, 2013, Zurich, Switzerland
6. Marilena E. Dasenaki, Christina S. Michali, Nikolaos S. Thomaidis, "Determination of polar veterinary drugs and pharmaceuticals in food samples of animal origin by Hydrophilic Interaction Liquid Chromatography - Tandem Mass Spectrometry (HILIC-MS/MS)", 6th Int. Symp. On Recent Advances in Food Analysis, 2013, Prague
7. Maria Mastrogiannopoulou, Anna Bletsou, Marilena Dasenaki, Nikolaos Thomaidis, "Simultaneous Determination of water-soluble vitamins in baby food by LC-ESI-MS/MS", 6th Int. Symp. On Recent Advances in Food Analysis, 2013, Prague.
8. V. Borova, M. Dasenaki, N. Thomaidis "Determination of 171 Pharmaceuticals, Controlled Psychoactive and Illicit Drugs and their Metabolites in wastewater and sludge by liquid chromatography – tandem mass spectrometry" 8th Aegean Analytical Chemistry Days (AACD 2012), 2012, Izmir. TR, p.66 (P1-24) (Best Poster Presentation Award).
9. M.E. Dasenaki and N.S. Thomaidis "Multi residue determination of veterinary drugs and pharmaceutical residues in dairy products and egg using liquid chromatography - tandem mass spectrometry", 5th Int.

- Symp. On Recent Advances in Food Analysis, 2011, Prague (Agilent Best poster award).
10. Anna Bletsou, Ahmad Hanafi, Marilena Dasenaki, Nikolaos Thomaidis, "Development of specific LC-ESI-MS/MS methods for the determination of Spinosad, Thiacloprid and Pyridalyl and study of the degradation rates and the pre harvest intervals in spring onions", 5th Int. Symp. On Recent Advances in Food Analysis, 2011, Prague.
 11. Anna Bletsou, Ahmad Hanafi, Marilena E. Dasenaki, Nikolaos S. Thomaidis "Development of specific LC-ESI-MS/MS methods to study the degradation rates and the Pre Harvest Intervals (PHI) of bifenthrin, lufenuron and iprodione in green beans and peas under the Egyptian field conditions" International Symposium on New Trends in Food Analyses - From LC MS Technologies to UPLC, AFSILAB – AOAC Int., 2009, Paris.
 12. M.E. Dasenaki and N.S. Thomaidis "Multi-residue determination of seventeen sulfonamides and five tetracyclines in fish tissue using a multi-stage LC-ESI-MS/MS approach based on advanced mass spectrometric techniques" 4th Int. Symp. On Recent Advances in Food Analysis, 2009, Prague, (CAMO best poster award)
 13. Spyros A. Drivelos, Marilena E. Dasenaki, Nikolaos S. Thomaidis, "Determination of isoascorbic acid in fish tissue by Hydrophilic Interaction Liquid Chromatography (HILIC) – Ultraviolet And Tandem Mass Spectrometric detection", Proceedings of the 6th International Conference of Analysis Modern Trends and Applications, Athens 2009.
 14. Marilena E. Dasenaki, Niki C. Maragou and Nikolaos S. Thomaidis, "Multi-residue determination of eighteen sulfonamides in fish tissues by liquid chromatography. Comparison of ultraviolet and tandem mass spectrometric detection", Proceedings of the 6th Aegean Analytical Chemistry Days, 2008
 15. Marilena E. Dasenaki, Maria V. Papatzani, Niki C. Maragou, Nikolaos S. Thomaidis, Dimitrios Skafidas, Development and validation according to the decision 2002/657/EC of an HPLC - UV method for the determination of 10 sulfonamides in fish tissue, Proceedings of the 5th Aegean Analytical Chemistry Days, 2006.

Awards and Honors

1. Scholarship from the State Scholarships Foundation (IKY) (1st position in admitting Chemistry Department, 2001)
2. CAMO Best Poster Award, poster presentation at the 4th Int. Symposium On Recent Advances in Food Analysis, 2009, Prague
3. PhD Research Scholarship: This research was been co-financed by the European Union (European Social Fund – ESF) and Greek national funds through the Operational Program "Education and Lifelong Learning" of the National Strategic Reference Framework (NSRF) - Research Funding Program: Heracleitus II. Investing in knowledge society through the European Social Fund, 2011
4. Agilent Best Poster Award, poster presentation at the 5th Int. Symposium On Recent Advances in Food Analysis, 2011, Prague

Professional Affiliations

Association of Greek Chemists, 2008-Present
Hellenic Mass Spectrometry Society, 2012-Present

Contact information

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