



## ▶ Dimitrios E. Damalas

Postdoctoral Research Fellow at the University of Athens

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### Education

**B.Sc. in Chemistry (2009-2013)**, University of Athens, Grade: 7.94/10

**M.Sc. in Chemical Analysis & Quality Control (2013-2015)**, University of Athens, Grade 9.1/10

**Ph.D. in Analytical Chemistry (2016-2022)**, University of Athens

### Research Topics

**Undergraduate Thesis:** "Monitoring of contaminants of emerging concern by the use of low resolution mass spectrometry techniques", Laboratory of Analytical Chemistry, Chemistry department, University of Athens, Greece (2012-2013).

**Master Thesis:** "Application of HILIC/RPLC Quadrupole-Time-of-Flight Mass Spectrometry to assess the metabolism and effects of benzotriazoles in zebrafish (*Danio rerio*) larvae", Laboratory of Analytical Chemistry, Chemistry department, University of Athens, Greece (2014-2015).

**Ph.D. Thesis:** "Assessment of the toxicity of xenobiotics in aquatic organisms through targeted and un-targeted metabolomics analysis, by the use of high resolution mass spectrometry techniques", Laboratory of Analytical Chemistry, Chemistry department, University of Athens, Greece (2016-2022).

**Post Doctoral Research project:** "Development of MALDI HRMS Imaging workflows combined with TIMS, to assess the spatial distribution and concentration changes of the xeno- and endo-metabolome of whole zebrafish larvae exposed to xenobiotics". Laboratory of Analytical Chemistry, Chemistry department, University of Athens, Greece (2023-2025).

### Research Interests

**General research interests:** Metabolomics, Environmental Analytical Chemistry, High Resolution Mass Spectrometry, Analytical method development (LC-MS/MS, GC-MS/MS, LC-ESI-QTOF, GC-APCI-QTOF, MALDI-TOF, TIMS-QTOF), Biotransformation of xenobiotics in zebrafish embryos and larvae, Determination of emerging contaminants in environmental samples, Suspect and Non target Screening

#### Projects:

1. 2022 – 2025: **MALDI4Health**, "Novel polymer- based MALDI matrices and next generation analytical platforms for the investigation of biologically relevant low molecular weight compounds", 2nd Call for H.F.R.I.'s Research Projects to Support Faculty Members & Researchers.

2. 08/2019 – 09/2020: **EMBLAS-PLUS**, EU/UNDP Project: Improving Environmental Monitoring in the Black Sea – Selected measures.
3. 2018-2022: **LIFE APEX**: Systematic use of contaminant data from apex predators and their prey in chemicals management, LIFE17 ENV/SK/000355, <https://lifeapex.eu/>
4. 2018-2021: “**A&M in PHION**” - Analytics and Modelling within the UBA project *Sauer ist nicht immer lustig – Effekte des pH auf die Toxizität und Bioakkumulation ionischer Stoffe* (funding Eberhard Karls Universität Tübingen).
5. 2017-2019: **1<sup>st</sup> Hellenic Foundation for Research and Innovation (HFRI) Announcement for doctoral candidates**, “Toxicity assessment of xenobiotics in aquatic organisms through targeted and untargeted metabolomics analysis by high resolution mass spectrometry techniques” (funding HFRI and the General Secretariat for Research and Technology (GSRT)).
6. 2016-2018: **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.
7. 2014 –2015: **WATERMICROPOL Project**, THALIS, Ministry of Education: Investigation of organic micropollutants' fate in wastewater treatment and study of their behavior during wastewater disposal to the aquatic environment.
8. 2014 –2015: **TREMEPOL Project**, ARISTEIA, Ministry of Education: Transformation Products of Emerging Pollutants in the aquatic environment.

## Publications in journals

1. Heinz R. Kohler; Thomas Gräff; Mona Schweizer; Jasmin Blumhardt; Jasmin Burkhardt; Lisa Ehmann; Janine Hebel; Christoph Heid; Lone Kundy; Julia Kuttler; Miroslava Malusova; Friederike-Marie Moroff; Anne-Frida Schlöisinger; Pia Schulze-Berge; Eleni Panagopoulou; **Dimitrios E. Damalas**; Nikolaos S. Thomaidis; Rita Triebkorn; Dirk Maletzki; Ute Kühnen; Peter C. von der Ohe “LogD-based modelling and ΔlogD as a proxy for pH-dependent action of ionizable chemicals reveal the relevance of both neutral and ionic species for fish embryotoxicity and possess great potential for practical application in the regulation of chemicals”, *Water Res.* 2023; 235. (doi: [10.1016/j.watres.2023.119864](https://doi.org/10.1016/j.watres.2023.119864))
2. Anastasia S. Kritikou; Reza Aalizadeh; **Dimitrios E. Damalas**; Ioanna V. Barla; Carsten Baessmann; Nikolaos S. Thomaidis “MALDI-TOF-MS integrated workflow for food authenticity investigations: An untargeted protein-based approach for rapid detection of PDO feta cheese adulteration”, *Food Chem.* 2022; 370. (doi: <https://doi.org/10.1016/j.foodchem.2021.131057>)
3. Sofia K. Drakopoulou,.; **Dimitrios E. Damalas**; Carsten Baessmann; Nikolaos S. Thomaidis, “ Trapped Ion Mobility Incorporated in LC-HRMS Workflows as an Integral Analytical Platform of High Sensitivity: Targeted and Untargeted 4D-Metabolomics in Extra Virgin Olive Oil”, *J Agric Food Chem.* 2021; 69, 51: 15728–15737. (doi: <https://doi.org/10.1021/acs.jafc.1c04789>)
4. Rob Stierum; Emma L. Schymanski; Chris T. Evelo; Reza Aalizadeh; Hristo Aladjov; Kasia Arturi; Karine Audouze; Pavel Babica; Karel Berka; Jos Bessems; Ludek Blaha; Evan E. Bolton; Montserrat Cases; **Dimitrios E. Damalas**; Kirtan Dave; Marco Dilger; Thomas Exner; Daan P. Geerke; Roland Grafström; Alasdair Gray; John M. Hancock; Henner Hollert; Nina Jeliaskova; Danyel Jennen; Fabien Jourdan; Pascal Kahlem; Jana Klanova; Jos Kleinjans; Todor Kondic; Boi Kone; Iseult Lynch; Uko Maran; Sergio Martinez Cuesta; Hervé Ménager; Steffen Neumann; Penny Nymark; Herbert Oberacher; Noelia Ramirez; Sylvie Remy; Philippe Rocca-Serra; Reza M. Salek; Brett Sallach; Susanna-Assunta Sansone; Ferran Sanz; Haralambos Sarimveis; Sirarat Sarntivijai; Tobias Schulze; Jaroslav Slobodnik; Ola Spjuth; Jonathan Tedds; Nikolaos Thomaidis; Ralf J.M. Weber; Gerard J.P. van Westen; Craig E. Wheelock; Antony J. Williams; Hilda Witters; Barbara Zdrzil; Anže Županič; Egon L. Willighagen “ELIXIR and Toxicology: a community in development”, *F1000Research* 2021; 10(ELIXIR):1129. (doi: <https://doi.org/10.12688/f1000research.74502.1>)

5. Mona Schweizer; Peter C. von der Ohe; Thomas Gräff; Ute Kühnen; Janine Hebel; Christoph Heid; Lone Kundy; Julia Kuttler; Friederike-Marie Moroff; Anne-Frida Schlösinger; Pia Schulze-Berge; Rita Triebkorn; Elena Panagopoulou; **Dimitrios E. Damalas**; Nikolaos S. Thomaidis; Heinz-R. Köhler, "Heart rate as an early warning parameter and proxy for subsequent mortality in *Danio rerio* embryos exposed to ionisable substances", *Sci. Total Environ*, 2021; 818. (doi: <https://doi.org/10.1016/j.scitotenv.2021.151744>)
6. Nikolaos I. Rousis ; Maria Denardou; Nikiforos Alygizakis; Aikaterini Galani; Anna A. Bletsou; **Dimitrios E. Damalas**, Niki C. Maragou; Kevin V. Thomas; Nikolaos S. Thomaidis, "Assessment of Environmental Pollution and Human Exposure to Pesticides by Wastewater Analysis in a Seven-Year Study in Athens, Greece", *Toxics*. 2021; 9(10), 260. (doi: <https://doi.org/10.3390/toxics9100260>)
7. Leonis, G. ; Christodoulou, E. ; Ntountaniotis, D. ; Chatziathanasiadou, M. V. ; Mavromoustakos, T. ; Naziris, N. ; Chountoulesi, M. ; Demetzos, C. ; Valsami, G. ; **Damalas, D. E.**, "Antihypertensive Activity And Molecular Interactions Of Irbesartan In Complex With 2-Hydroxypropyl- $\beta$ -Cyclodextrin", *Chem Biol Drug Des*. 2020; 96: 668– 683. (doi: <https://doi.org/10.1111/cbdd.13664>)
8. Pablo Gago-Ferrero, Anna A. Bletsou, **Dimitrios E. Damalas**, Reza Aalizadeh, Nikiforos A. Alygizakis, Heinz P. Singer, Juliane Hollender, Nikolaos S. Thomaidis, "Wide-scope target screening of >2000 emerging contaminants in wastewater samples with UPLC-Q-ToF-HRMS/MS and smart evaluation of its performance through the validation of 195 selected representative analytes", *Journal of Hazardous Materials*, **2019**, 387 (doi: 10.1016/j.jhazmat.2019.121712)
9. Maria Papastergiou, Despoina Chriti, **Dimitrios E. Damalas**, Grigorios Raptopoulos, Patrina Paraskevopoulou "Poly(urethane-acrylate) aerogels from the isocyanurate trimer of isophorone diisocyanate", *Journal of Supercritical Fluids*, **2019**, 148, 42-54 (doi: 10.1016/j.supflu.2019.02.020)
10. Dimitrios Ntountaniotis, Ioannis Andreadelis, Tahsin F. Kellici, Vlasios Karageorgos, Georgios Leonis, Eirini Christodoulou, Sofia Kiriakidi, Johanna Becker-Baldus, Evgenios K. Stylos, Maria V. Chatziathanasiadou, Christos M. Chatzigiannis, **Dimitrios E. Damalas**, Busecan Aksoydan, Uros Javornik, Georgia Valsami, Clemens Glaubitz, Serdar Durdagi, Nikolaos S. Thomaidis, Antonios Kolocouris, Janez Plavec, Andreas G. Tzakos, George Liapakis, Thomas Mavromoustakos, "Host-guest interactions between candesartan and its prodrug candesartan cilexetil in complex with 2-hydroxypropyl- $\beta$ -cyclodextrin: on the biological potency for Angiotensin II antagonism", *Molecular Pharmaceutics*, **2019**, 148, 42-54 (doi: 10.1021/acs.molpharmaceut.8b01212)
11. **Dimitrios E. Damalas**, Anna A. Bletsou, Adamadia Agalou, Dimitris Beis, Nikolaos S. Thomaidis "Assessment of the Acute Toxicity, Uptake and Biotransformation potential of Benzotriazoles in Zebrafish (*Danio rerio*) Larvae Combining HILIC- with RPLC-HRMS for High-Throughput Identification", *Environmental Science and Technology*, **2018**, 52, 6023-6031 (doi: 10.1021/acs.est.8b01327)
12. Evangelia I Iatrou, Georgia Gatidou, **Dimitrios Damalas**, Nikolaos S Thomaidis, Athanasios Stasinakis "Fate of antimicrobials in duckweed Lemna minor wastewater treatment systems", *Journal of Hazardous Materials*, **2017**, 330 (doi: 10.1016/j.jhazmat.2017.02.005).

## Conferences Presentations

1. G. Gkotsis, **D.E. Damalas**, C. Baessmann, B. Galvin, and N.S. Thomaidis "Uncovering the PFAS Complexity: A powerful LC-VIP HESI(-)-TIMS-QToF MS Workflow for Biota Analysis combining targeted and untargeted approaches", 18<sup>th</sup> International Conference on Chemistry and the Environment, Venice, Italy, 11-15 June, 2023 (oral presentation)
2. K.S. Diamanti, **D.E. Damalas**, G.O. Gkotsis, C. Baessmann, B. Galvin, and N.S. Thomaidis "Towards a comprehensive 4D-targeted workflow suitable for environmental and human biomonitoring of xenobiotics leveraging LC-VIP HESI-TIMS-HRMS.", International Conference on Environmental & Food Monitoring (ISEAC-41), Amsterdam, the Netherlands, 20-24 November, 2023 (poster presentation)
3. E.I. Panagopoulou, **D.E. Damalas**, E.Aleiferi, V.Tzepkinli, C. Baessmann, and N.S. Thomaidis "Investigation of the potential biotransformation of different pharmaceuticals in zebrafish (*Danio rerio*) embryos, utilizing LC-TIMS-HRMS combined with suspect and no-target screening workflows",

International Conference on Environmental & Food Monitoring (ISEAC-41), Amsterdam, the Netherlands, 20-24 November, 2023 (poster presentation)

4. G. Gkotsis, **D.E. Damalas**, C. Baessmann, I. Nordborn, B. Galvin, and N.S. Thomaidis “Towards a combined targeted and untargeted workflow for the systematic monitoring of thousands PFAS in biota, utilizing LC-VIP HESI(-)-TIMS-QTOF MS”, International Conference on Non-Target Screening (ICNTS) 2023, Erding, Germany, 16-19 October, 2023 (oral presentation)
5. E. Aleiferi, M. Tsakanika, **D.E. Damalas**, A. Kritikou, G. Sakelariou, and N.S. Thomaidis “Exploring the ionization potential of low molecular weight compounds by novel polymer-based MALDI matrices, utilizing MALDI-HRMS analytical platforms and workflows.”, 18<sup>th</sup> International Conference on Environmental Science and Technology, 30/08-02/09, 2023, Athens, Greece (poster presentation)
6. K. Diamanti, R. Aalizadeh, **D.E. Damalas**, G. Gkotsis, C. Baessmann, B. Galvin, and N.S. Thomaidis “Wide-scope target screening by LC-HRMS combined with fast ion mobility – The answer to environmental and human biomonitoring challenges”, 18<sup>th</sup> International Conference on Chemistry and the Environment, Venice, Italy, 11-15 June, 2023 (poster presentation)
7. G. Gkotsis, **D.E. Damalas**, C. Baessmann, B. Galvin, and N.S. Thomaidis “Unveiling the chemical universe of PFAS in biota using a combined targeted and untargeted workflow, utilizing LC-VIP HESI(-)-TIMS-QToF MS”, 18<sup>th</sup> International Conference on Chemistry and the Environment, Venice, Italy, 11-15 June, 2023 (poster presentation)
8. K. Diamanti, **D.E. Damalas**, G. Gkotsis, C. Baessmann, B. Galvin, and N.S. Thomaidis “CCS-aware wide-scope target screening utilizing LC-TIMS-HRMS and a new heated ESI source – The answer to environmental and human biomonitoring challenges”, 71<sup>st</sup> ASMS Conference on Mass Spectrometry and Allied Topics, Houston, 4-8 June, 2023 (poster presentation)
9. G. Gkotsis, **D.E. Damalas**, M.C. Nika, C. Baessmann, B. Galvin, and N.S. Thomaidis “Comprehensive 4D workflow for the targeted and untargeted screening of PFAS in organisms from different trophic levels utilizing LC-VIP HESI(-)-TIMS-QToF MS”, 71<sup>st</sup> ASMS Conference on Mass Spectrometry and Allied Topics, Houston, 4-8 June, 2023 (poster presentation)
10. E. Panagopoulou, **D.E. Damalas**, E. Aleiferi, V.A. Tzepkinli, and N.S. Thomaidis “Assessment of the potential biotransformation of pharmaceuticals in zebrafish embryos, utilizing LC-HRMS techniques”, SETAC EUROPE 33<sup>rd</sup> ANNUAL MEETING, 30/04-04/05/2023, Dublin, Ireland (poster presentation)
11. E. Panagopoulou, **D.E. Damalas**, E. Aleiferi, V.A. Tzepkinli, M. Schweizer, L. Kundy H.R. Köhler, P.v.d. Ohé, R. Triebkorn and N.S. Thomaidis “Investigating the role of biotransformation in the toxicity of ionizable organic compounds, using LC-HRMS – Zebrafish embryos exposed to Ibuprofen as a case study”, SETAC EUROPE 33<sup>rd</sup> ANNUAL MEETING, 30/04-04/05/2023, Dublin, Ireland (poster presentation)
12. **D.E. Damalas**, E. Panagopoulou, M. Agalou, D. Beis and N.S. Thomaidis “Answering environmental toxicology questions through LC-TIMS-HRMS based toxicometabolomics of zebrafish exposed to xenobiotics – Lipid metabolism under the spotlight”, SETAC EUROPE 33<sup>rd</sup> ANNUAL MEETING, 30/04-04/05/2023, Dublin, Ireland (poster presentation)
13. **D.E. Damalas**, E. Panagopoulou, M. Agalou, D. Beis, C. Baessmann and N.S. Thomaidis “LC-TIMS-HRMS combined with advanced data processing tools - A powerful 4-D workflow for the identification of biotransformation products of zebrafish exposed to xenobiotics”, SETAC EUROPE 33<sup>rd</sup> ANNUAL MEETING, 30/04-04/05/2023, Dublin, Ireland (oral presentation)
14. K. Diamanti, **D.E. Damalas**, G. Gkotsis, E.I. Panagopoulou, M.C. Nika, C. Baessmann, B. Galvin, and N.S. Thomaidis “Development of a LC-ESI-TIMS-QTOFMS database to enhance the performance of wide-scope target screening in environmental (bio)monitoring studies”, 24<sup>th</sup> International Mass Spectrometry Conference (IMSC 2022), MN, USA, Aug 27- Sept 2, 2022 (oral presentation)
15. K. Diamanti, **D.E. Damalas**, G. Gkotsis, E.I. Panagopoulou, M.C. Nika, C. Baessmann, B. Galvin, and N.S. Thomaidis “Enhanced performance of 4D wide-scope target screening in environmental (bio)monitoring studies utilizing LC-ESI-TIMS-QTOF-MS and a comprehensive database”, 70<sup>th</sup> ASMS

- Conference on Mass Spectrometry and Allied Topics, Minneapolis, MN, USA, June 5-9, **2022** (poster presentation)
16. A.S. Kritikou, **D.E. Damalas**, C. Baessmann, B. Galvin, P.C. Mbarushimana, and N.S. Thomaidis "Potential of polymer-based MALDI matrices for the detection of food-relevant low molecular weight compounds: Application to crucial authenticity issues", 70<sup>th</sup> ASMS Conference on Mass Spectrometry and Allied Topics, Minneapolis, MN, USA, June 5-9, **2022** (poster presentation)
  17. **D.E. Damalas**, E. Panagopoulou, M. Agalou, D. Beis, and N.S. Thomaidis "From biotransformation products to altered metabolites & lipids – LC-TIMS-HRMS combined with a sophisticated annotation workflow for xeno- and endo-metabolome coverage of zebrafish exposed to xenobiotics", 18<sup>th</sup> Annual Conference of the Metabolomics Society – METABOLOMICS 2022, 19-23/06/**2022**, Valencia, Spain (poster presentation)
  18. **D.E. Damalas**, E. Panagopoulou, M. Agalou, D. Beis, and N.S. Thomaidis "From biotransformation products to altered metabolites & lipids – LC-TIMS-HRMS combined with a sophisticated annotation workflow for xeno- and endo-metabolome coverage of zebrafish exposed to xenobiotics", SETAC Focused Topic Meeting, Nontarget Analysis for Environmental Risk Assessment, 22-26/05/**2022**, Durham, NC, USA + online (poster presentation)
  19. **D.E. Damalas**, E. Panagopoulou, M. Agalou, D. Beis, and N.S. Thomaidis "From biotransformation products to altered metabolites & lipids – LC-TIMS-HRMS combined with a sophisticated annotation workflow for xeno- and endo-metabolome coverage of zebrafish exposed to xenobiotics", SETAC EUROPE 32<sup>nd</sup> ANNUAL MEETING, 15-19/05/**2022**, Copenhagen, Denmark (poster presentation)
  20. K. Diamanti, **D.E. Damalas**, G. Gkotsis, E.I. Panagopoulou, M.C. Nika, C. Baessmann, B. Galvin, and N.S. Thomaidis "Collision Cross Section (CCS) value as an additional identification point for chemical characterization: Development of a LC-ESI-TIMS-QTOFMS database for environmental (bio)monitoring studies", SETAC EUROPE 32<sup>nd</sup> ANNUAL MEETING, 15-19/05/**2022**, Copenhagen, Denmark (poster presentation)
  21. E. Panagopoulou, V.A. Tzepkinli, **D.E. Damalas**, R. Aalizadeh, M. Schweizer, J. Hebel, H.R. Köhler, P.v.d. Ohé, R. Triebkorn and N.S. Thomaidis "Investigation of the pH-effect on the toxicity, uptake & biotransformation of the Metoprolol in zebrafish (*Danio rerio*) embryos, utilizing LC-ESI-QTOFMS", SETAC EUROPE 32<sup>nd</sup> ANNUAL MEETING, 15-19/05/**2022**, Copenhagen, Denmark (poster presentation)
  22. **D.E. Damalas**, E. Panagopoulou, A. Agalou, D. Beis, C. Baessman, and N.S. Thomaidis "Holistic platform for xenometabolome coverage of zebrafish embryos exposed to triclosan utilizing timsTOFpro and a biotransformation-oriented data processing workflow.", 69<sup>th</sup> ASMS Conference on Mass Spectrometry and Allied Topics, Philadelphia, October 31-November 4, **2021** (poster presentation)
  23. N.S. Thomaidis, **D.E. Damalas**, S. Drakopoulou "Holistic targeted and untargeted workflows in food and environmental studies – LC-TIMS-HRMS providing additional insights", 17<sup>th</sup> Annual Workshop on Emerging High Resolution Mass Spectrometry (HRMS) and LC MS/MS Applications in Environmental Analysis and Food Safety, Ottawa, Canada, 14-15, **2021** (oral presentation)
  24. **D.E. Damalas**, E. Panagopoulou, E. Aleiferi, V.A. Tzepkinli, R. Aalizadeh, M. Schweizer, J. Kuttler, H.R. Köhler, P.v.d. Ohé, R. Triebkorn and N.S. Thomaidis "Toxicity, uptake, and biotransformation assessment of zebrafish embryos exposed to tetracaine, under different pH values, utilizing embryotoxicity and LC-HRMS", 17<sup>th</sup> International Conference on Environmental Science and Technology, 1-4/09/**2021**, Athens, Greece (poster presentation).
  25. E. Panagopoulou, V.A. Tzepkinli, **D.E. Damalas**, R. Aalizadeh, M. Schweizer, H.R. Köhler, P.v.d. Ohé, R. Triebkorn and N.S. Thomaidis "Assessment of the pH-effect on the toxicity, uptake & biotransformation of Fluoxetine in Zebrafish (*Danio rerio*) embryos by LC-ESI-QTOFMS", 17<sup>th</sup> International Conference on Environmental Science and Technology, 1-4/09/**2021**, Athens, Greece (poster presentation).
  26. V.A. Tzepkinli, E. Panagopoulou, **D.E. Damalas**, R. Aalizadeh, M. Schweizer, H.R. Köhler, P.v.d. Ohé, R. Triebkorn and N.S. Thomaidis "Investigation of the influence of environmentally relevant pH values in the toxicity of the b-blocker Metoprolol in zebrafish (*Danio Rerio*) embryos through toxicokinetic approaches (uptake, bioaccumulation, and biotransformation)", 17<sup>th</sup> International Conference on Environmental Science and Technology, 1-4/09/**2021**, Athens, Greece (oral presentation).



27. **D.E. Damalas**, E. Panagopoulou, E. Aleiferi, R. Aalizadeh, M. Schweizer, J. Kuttler, H.R. Köhler, P.v.d. Ohé, R. Triebskorn and N.S. Thomaidis “Zebrafish toxicity, uptake and biotransformation assessment of tetracaine exposure under different pH values, utilizing embryotoxicity and LC-HRMS”, SETAC Europe2021 - SETAC EUROPE 31st ANNUAL MEETING, 3-6/05/2021, Online (Virtual Conference) (poster presentation)
28. **D.E. Damalas**, E.I. Panagopoulou, M. Agalou, D. Beis, C. Baessman, A. Filipenko, N.S. Thomaidis “Holistic approach for comprehensive xeno-metabolome coverage of Zebrafish embryos exposed to benzotriazoles, combining orthogonal chromatographic modes and Trapped-Ion-Mobility-QTOF”, 68th ASMS Conference on Mass Spectrometry and Allied Topics, Online Meeting, June 1-12, 2020 (poster presentation)
29. S. Drakopoulou, **D.E. Damalas**, N.S. Thomaidis, C. Baessman “Potential of trapped-ion-mobility UHPLC-QTOF in food authenticity studies: characterization of co-eluting secoiridoids isomers found in Greek extra virgin olive oil”, 68th ASMS Conference on Mass Spectrometry and Allied Topics, Online Meeting, June 1-12, 2020 (poster presentation)
30. A.S. Kritikou, **D.E. Damalas**, I.V. Barla, R. Aalizadeh, V. Sauerland, B. Galvin, C. Baessman, N.S. Thomaidis “Rapid MALDITOF based Proteomics approach for fast and reliable detection of Feta cheese adulteration”, 68th ASMS Conference on Mass Spectrometry and Allied Topics, Online Meeting, June 1-12, 2020 (poster presentation)
31. **D.E. Damalas**, E.I. Panagopoulou, M. Agalou, D. Beis, N.S. Thomaidis “Holistic approach for comprehensive xeno-metabolome coverage of Zebrafish embryos exposed to Benzotriazoles, combining orthogonal chromatographic modes, trapped ion mobility and HRMS”, SETAC SciCon - SETAC EUROPE 30th ANNUAL MEETING, 3-7/05/2020, Online (Virtual Conference) (oral presentation)
32. E. Aleiferi, E.I. Panagopoulou, **D.E. Damalas**, R. Aalizadeh, M. Schweizer, J. Kuttler, H.R. Köhler, P.v.d. Ohé, R. Triebskorn and N.S. Thomaidis “Assessment of the pH effect on toxicity & biotransformation of the anti-inflammatory drug Diclofenac using the zebrafish, (Danio rerio) toxicity test” SETAC SciCon - SETAC EUROPE 30th ANNUAL MEETING, 3-7/05/2020, Online (Virtual Conference) (poster presentation)
33. E.I. Panagopoulou, **D.E. Damalas**, E. Aleiferi, R. Aalizadeh, M. Schweizer, J. Kuttler, H.R. Köhler, P.v.d. Ohé, R. Triebskorn and N.S. Thomaidis “Investigation of the influence of pH on the toxicity, uptake and biotransformation of Ibuprofen in zebrafish (Danio rerio) embryos” SETAC SciCon - SETAC EUROPE 30th ANNUAL MEETING, 3-7/05/2020, Online (Virtual Conference) (poster presentation)
34. N.S. Thomaidis, S. Drakopoulou, **D.E. Damalas**, C. Baessmann, “Unraveling the Mystery of Isomeric Compounds Crucial in Food Authenticity Studies Utilizing Trapped Ion Mobility Combined With LC-HRMS – Secoiridoids in Extra Virgin Olive Oil as a Case Study”, 9th International Symposium on Recent Advances in Food Analysis (RAFA 2019) 5—8 November 2019, Prague, Czech Republic (oral presentation).
35. S. Drakopoulou, **D.E. Damalas**, C. Baessmann, N.S. Thomaidis “Potential of Trapped Ion Mobility combined with LC-HRMS in Food Authenticity Studies: Identification and Characterization of Secoiridoids Isomers found in Greek Extra Virgin Olive Oil”, 9th International Symposium on Recent Advances in Food Analysis (RAFA 2019) 5—8 November 2019, Prague, Czech Republic (poster presentation).
36. A.S. Kritikou, **D.E. Damalas**, I.V. Barla, V. Sauerland, C. Baessmann, R. Aalizadeh, N.S. Thomaidis “Rapid MALDI-TOF-MS-based proteomics approach for reliable detection of PDO FETA cheese adulteration”, 9th International Symposium on Recent Advances in Food Analysis (RAFA 2019) 5—8 November 2019, Prague, Czech Republic (poster presentation).
37. A.S. Kritikou, **D.E. Damalas**, I.V. Barla, V. Sauerland, C. Baessmann, N.S. Thomaidis “NOVEL MALDI-TOFMS-BASED methodology for rapid detection of PDO FETA cheese adulteration”, IMA-2019: 11th International Conference on Instrumental Methods of Analysis, 26-29/09/2019, Ioannina, Epirus, Greece (poster presentation).
38. E.I. Panagopoulou, M.-C. Nika, G. Koulis, **D.E. Damalas** and N.S. Thomaidis “Development of a novel GC-APCI-QTOFMS methodology for the determination of more than 300 organic compounds in Asopos

- river water samples", 16th International Conference on Environmental Science and Technology, 4-7/09/2019, Rhodes, Greece (oral presentation).
39. **D.E. Damalas**, E. Panagopoulou, R. Aalizadeh, M. Schweizer, C. Heid, H.R. Köhler, P.v.d. Ohé, R. Triebkorn and N.S. Thomaidis "Influence of pH on the toxicity, uptake and biotransformation potential of citalopram in zebrafish (*Danio rerio*) embryos", 16th International Conference on Environmental Science and Technology, 4-7/09/2019, Rhodes, Greece (poster presentation).
  40. E.I. Panagopoulou, M.-C. Nika, G. Koulis, **D.E. Damalas** and N.S. Thomaidis "Development of a novel methodology for the determination of priority pollutants and emerging contaminants in Asopos river water samples by GC-EI-MS/MS and GC-APCI-QTOFMS", 17th International Conference on Chemistry and the Environment, 16-20/07/2019, Thessaloniki, Greece (poster presentation), (**Best poster award**).
  41. **D.E. Damalas**, E. Panagopoulou, M. Agalou, D. Beis, M.H. Lamoree, P.E.G. Leonards, N.S. Thomaidis "Combining acute toxicity, toxicokinetics and metabolomics approaches for comprehensive toxicity assessment of xenobiotics in aquatic organisms - Zebrafish embryos exposed to triclosan as a case study", 15th Annual Conference of the Metabolomics Society – METABOLOMICS 2019, 23-27/06/2019, The Hague, The Netherlands (poster presentation).
  42. **D.E. Damalas**, R. Aalizadeh, M. Schweizer, C. Heid, H.R. Köhler, P.v.d. Ohé, R. Triebkorn and N.S. Thomaidis "Evaluation of the acute toxicity, uptake and biotransformation potential of citalopram in zebrafish (*Danio rerio*) embryos at three environmentally relevant pHs", SETAC EUROPE 29th ANNUAL MEETING, 26-30/05/2019, Helsinki, Finland (poster presentation).
  43. **D.E. Damalas**, M. Agalou, D. Beis, M.H. Lamoree, P.E.G. Leonards, N.S. Thomaidis "Zebrafish embryos exposed to Triclosan - Combining acute toxicity, toxicokinetics and metabolomics approaches for a comprehensive toxicity assessment strategy", Fish and amphibian embryos as alternative models in toxicology and teratology - 5th international symposium and workshop, 29-30/11/2018, Paris, France (oral presentation).
  44. Nika M.C., Damalas D.E., Koulis G., Alygizakis N., Nikolopoulou V., Drakopoulou S., Psoma A., Kostakis M., Aalizadeh R., Oswald P., Slobodnik J. and Thomaidis N. S. "EXTENDED MONITORING OF LEGACY POLLUTANTS AND EMERGING CONTAMINANTS IN THE MARINE ENVIRONMENT OF BLACK SEA", 11<sup>th</sup> Aegean Analytical Chemistry Days, 25-29/09/2018, Chania, Greece (poster presentation), (**Best poster award**).
  45. S.E. Kokolakis, **D.E. Damalas**, C. Baessmann, N.S. Thomaidis "GC-APCI-QTOF as an alternative to GC-MS/MS for the wide-scope screening of pesticides in oranges", 11<sup>th</sup> Aegean Analytical Chemistry Days, 25-29/09/2018, Chania, Greece (poster presentation).
  46. **D.E. Damalas**, M. Agalou, D. Beis, M.H. Lamoree, P.E.G. Leonards, N.S. Thomaidis " Combining acute toxicity, toxicokinetics and targeted metabolomics approaches to assess the effects of triclosan in zebrafish embryos ", 11<sup>th</sup> Aegean Analytical Chemistry Days, 25-29/09/2018, Chania, Greece (oral presentation).
  47. **D.E. Damalas**, M. Agalou, D. Beis, M.H. Lamoree, P.E.G. Leonards, N.S. Thomaidis " Combining acute toxicity, toxicokinetics and metabolomics approaches to assess the effects of triclosan in zebrafish embryos", SETAC Europe 28<sup>th</sup> Annual Meeting 2018, 13-17/05/2018, Rome, Italy (poster presentation).
  48. **D.E. Damalas**, M. Agalou, D. Beis, M.H. Lamoree, P.E.G. Leonards, N.S. Thomaidis "'From toxicity assay to metabolomics analysis" - An integrated approach to assess the toxicity of three Benzotriazoles in zebrafish (*Danio rerio*) embryos ", CEST 2017, 30/09-02/10/2017, Rodos Palace, Rhodes, Greece (oral presentation).
  49. M.C. Nika, G. Koulis, **D.E. Damalas**, K. Diamanti, A. Bletsou, A. Psoma, S. Attiti, R. Aalizadeh, N. Alygizakis, M. Dasenaki, K. Kasiotis, P. Oswald, J. Slobodnik and **N.S. Thomaidis**, "Determination of legacy pollutants and emerging contaminants in the marine environment of Black Sea", CEST 2017, 30/09-02/10/2017, Rodos Palace, Rhodes, Greece (oral presentation).
  50. **D.E. Damalas**, M. Agalou, D. Beis, M.H. Lamoree, P.E.G. Leonards, N.S. Thomaidis "'From toxicity assay to metabolomics analysis" - An integrated approach to assess the toxicity of three Benzotriazoles in

- zebrafish (*Danio rerio*) embryos ", NORMAN workshop - Integrated Exposure and Effects Assessment, 11-12/04/**2017**, Amsterdam, Netherlands (oral presentation).
51. **Konstantina Diamanti**, Anna A. Bletsou, Dimitrios E. Damalas, Nikolaos S. Thomaidis "Target screening of emerging contaminants in influent wastewater samples of Athens by LC-QTOF-MS", 22<sup>nd</sup> Hellenic Chemistry Conference, **2016**, Thessaloniki, Greece (poster presentation) (**EYCN Best poster award**)
  52. **Nikolaos S. Thomaidis**, Anna A. Bletsou, Dimitrios E. Damalas "Pesticides, their metabolites and transformation products in urban wastewater: a change of perspective using extensive target and suspect LC-HRMS screening", 11th European Pesticide Residue Workshop, **2016**, Limassol, Cyprus (oral presentation)
  53. Dimitrios E. Damalas, Anna Bletsou, Adamantia Agalou, Dimitris Beis, Nikolaos Thomaidis "A toxicokinetic approach to assess the effects on metabolism of triclosan and benzotriazoles in zebrafish (*Danio rerio*) embryos", CEST 2015, 03-05/09/**2015**, Rodos Palace, Rhodes, Greece (oral presentation)
  54. **Anna Bletsou**, Dimitrios Damalas, Pablo Gago Ferrero, Emma Schymanski, Heinz Singer, Juliane Hollender, Nikolaos Thomaidis "Wide-scope target screening of 2327 emerging pollutants during wastewater treatment by RP-LC-QTOF-HR-MS/MS with an accurate-mass database", CEST 2015, 03-05/09/**2015**, Rodos Palace, Rhodes, Greece. (oral presentation)
  55. Dimitrios E. Damalas, Anna A. Bletsou, Adamantia Agalou, Dimitris Beis and Nikolaos S. Thomaidis "Study of the metabolism of zebrafish (*danio rerio*) embryo exposed to triclosan and benzotriazoles by HILIC-TOF-MS", 1<sup>st</sup> NORMAN workshop on analysis of problematic compounds, 01-02/09/**2015**, Rodos Palace, Rhodes, Greece (oral presentation)
  56. Dimitrios Damalas, Anna Bletsou and Nikolaos S. Thomaidis "Screening of pesticides residues and their metabolites in wastewater samples using liquid chromatography quadrupole-time-of-flight mass spectrometry with an accurate-mass database", 9<sup>th</sup> Aegean Analytical Chemistry Days (AACD 2014), 29/09-03/10/**2014**, Homerion Cultural Centre, Chios Greece (poster presentation)
  57. **Anna. Bletsou**, Dimitrios Damalas, Alexandros Stouraitis, Mina Papanastasiou and Nikolaos S. Thomaidis "Screening of emerging pollutants in wastewater samples using low and high resolution mass spectrometry", 8<sup>th</sup> Instrumental Methods of Analysis – Modern Trends and Applications (IMA 2013), 15/09-19/09/**2013**, Thessaloniki, Greece (oral presentation)

## Awards and Honors

1. Poster Award, poster presentation at the 9th International Symposium on Recent Advances in Food Analysis, 5-8/11/**2019**, Prague, Czech Republic.
2. Poster Award, poster presentation at the 17th International Conference on Chemistry and the Environment, 16-20/07/**2019**, Thessaloniki, Greece.
3. Poster Award, poster presentation at the 11th Aegean Analytical Chemistry Days, , Chania, Greece **2018**.
4. Scholarship for Ph.D. studies, General Secretariat for Research and Technology (GSRT) - Hellenic Foundation for Research and Innovation Institute (HFRI), "**1<sup>st</sup> HFRI Announcement for doctoral candidates**" 2017-2019, (grant number 1244).
5. Poster Award, poster presentation at the 22<sup>nd</sup> Hellenic Chemistry Conference, European Young Chemists' Network, **2016**.

## Professional Affiliations

- Association of Greek Chemists, 2014-Present
- Hellenic Mass Spectrometry Society, 2014-Present
- NORMAN Network, 2015-Present
- International Metabolomics Society, 2017-Present
- Society of Environmental Toxicology and Chemistry (SETAC), 2018-Present
- American Society for Mass Spectrometry (ASMS), 2018-Present



- **Committee Member** of the Metabolomics Society **Early-career Members Network (EMN) committee** (2020-2022)

### Contact information

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