

## CURRICULUM VITAE

### Sevasti – Kiriaki Zervou

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### Education

**Sep. 2004 - Mar. 2009: B.Sc. in Chemistry**

Department of Chemistry, National and Kapodistrian University of Athens - *B.Sc. Dissertation: "Method development and validation for determination of pesticides in water with SPE, HPLC-UV and comparison with ELISA technique"*

**Oct. 2009 – Nov. 2011: M.Sc. in Analytical Chemistry – Quality Control**

Department of Chemistry, National and Kapodistrian University of Athens in collaboration with NCSR "Demokritos" - *M.Sc. Dissertation: "Determination of Pesticides and Cyanotoxins in water with solid phase extraction and liquid chromatography – tandem mass spectrometry techniques (SPE, LC-MS/MS)"*

**Dec. 2011 – Jul. 2018: Ph. D. in Chemistry**

Department of Chemistry, National and Kapodistrian University of Athens in collaboration with NCSR "Demokritos" - *Ph.D. Dissertation: "Method development for the determination of Cyanotoxins and Organic Pollutants in water with liquid chromatography – tandem mass spectrometry"*

### Positions

**Apr. 2022 – present:** Postdoctoral Researcher, Laboratory of Photo-Catalytic Processes and Environmental Chemistry, Institute of Nanoscience and Nanotechnology, NCSR Demokritos, Greece

**Oct. 2021 – Mar. 2022:** Postdoctoral Researcher, CyanoLab, School of Biology, Aristotle University of Thessaloniki, Greece

**Jul. 2018 – Sep. 2021:** Postdoctoral Researcher, Laboratory of Photo-Catalytic Processes and Environmental Chemistry, Institute of Nanoscience and Nanotechnology, NCSR Demokritos, Greece

**Sep. 2012 – present:** Senior Analytical Chemist – ISO 17025 accreditation, Laboratory of Environmental Analysis "LEAD", Institute of Nanoscience and Nanotechnology, NCSR Demokritos, Greece (accredited for the analysis of Explosives, Cyanotoxins and Polycyclic Aromatic Hydrocarbons)

### Research Expertise

- ♦ High Resolution Mass Spectrometry (LC-HRMS) untargeted analysis and data processing with AI tools and computational platforms for compounds annotation, identification, molecular networking – annotation propagation, structure elucidation, *in silico* fragmentation, statistical analysis and construction of MS2 spectral libraries
- ♦ Environmental Chemistry – method development for the detection of naturally occurring and anthropogenic compounds in environmental matrices

- ◆ Explosive compounds analysis – development and optimization of analytical methods for the detection and determination of primary and secondary explosives, with safety protocols for handling explosive compounds
- ◆ Cyanobacterial Toxins and peptides - development of advanced analytical methods for their determination with tandem MS-MS and HRMS
- ◆ Natural compounds isolation and purification with flush chromatography and Mass Spectrometry guided fractionation
- ◆ Bioactivity studies – enzymes inhibition and antioxidant activity
- ◆ Extensive experience in the application of ISO 17025 standards for laboratory quality management and analytical processes

## Mobility

**Jun. 2023 – Jul. 2023:** Short Term Scientific Mission (STSM) - Project title: “Taste & Odor compounds (T&Os) and metabolomic profile of *Microcystis aeruginosa* PCC7806” in collaboration with Prof. Christine Edwards and Prof. Linda Lawton. Granted by WaterTOP COST Action CA18225. CyanoSol research group, School of Pharmacy and Life Science, Robert Gordon University, Aberdeen, UK

**Jul. 2022:** Transnational Access (TA) expert - in the frame of Action titled “AQUACOSM-plus EU network of mesocosm facilities and joint research initiatives” - Project “Mesocosm Taste and Odour experiment”. UK Center for Ecology and Hydrology, Lancaster, UK

**Jul. 2021:** Visiting Researcher - Project “Investigation for the presence of marine toxins in the mucilage event from Aegean Sea using LTQ-Orbitrap XL FTMS (LC-HRMS)” in collaboration with Prof. Carmela Dell’Aversano and Prof. Luciana Tartaglione. Department of Pharmacy, University of Naples Federico II, Napoli, Italy

**Jan. 2021 – Feb. 2021:** Visiting Researcher - Project “Study of cyanotoxins profile in lake Karaoun, Lebanon using Orbitrap Fusion Lumos Tribid MS (LC-HRMS)” in collaboration with Prof. Ryszard Lobinski & Prof. Joanna Szpunar. Institute of Analytical Sciences and Physico-Chemistry for Environment and Materials (IPREM), E2S UPPA, CNRS, Pau, France

**Sep. 2019 – Nov. 2019:** Visiting Researcher - Project “Application of bioassays ELISA and PPIA, qPCR analysis and GC-MS/MS analysis for the detection of cyanobacterial metabolites and their genes in water samples” in collaboration with Dr. Triantafyllos Kaloudis. Laboratory of Organic Micropollutants – Water Quality Control Department, Athens Water Supply and Sewerage Company - EYDAP SA, Greece

**Jan. 2016 – Feb. 2016:** Short Term Scientific Mission (STSM) - Project title: “Analysis of cyanobacterial metabolites and their correlation with the cyanobacterial species” in collaboration with Prof. Hanna Mazur-Marzec. Granted by CYANOCOST COST Action ES1105. Department of Marine Biotechnology, Institute of Oceanography, University of Gdansk, Gdynia, Poland

## Research Projects

### A. Principal Investigator

- ◆ “Identification of bioactive cyanopeptides from Greek lakes”. Post-doctoral fellowship by State Scholarships Foundation (IKY), Greece. Duration: 11/2019 – 11/2021.

**B. Research Team Member - Post-doctoral researcher**

- ♦ “Evaluation of hazardous substances released in the air during 3D-printing of orthodontic aligners”. Research project funded by the University of Zurich (Prof. T. Eliades). Duration: 11/2024 –10/2025. Project Coordinator: A. Hiskia.
- ♦ “Support for the upgrading of the operation of the National Network for Climate Change – Climact II” - Research topic title “Investigation of harmful algal blooms (HABs) history in Greek seawaters and their correlation with climate change”. Research project funded by the National Development Program 2021-2025, Ministry of Development, General Secretariat for Research and Innovation. Duration: 03/2023 – 12/2025. NCSR-D Project Coordinator: K. Eleftheriadis.
- ♦ “Photocatalytic reactors for water and liquid waste purification with immobilized photocatalysts on micro/nanopatterned surfaces – PhoRTnano - ATTP4-0321281 / MIS 5185074”. Research project co-funded by the European Union and Greek national funds through the Operational Program of the Regional Operational Programme "Attica 2014-2020". Duration: 08/2022 - 12/2023. NCSR-D Project Coordinator: T. Triantis.
- ♦ “Assessment of BPA release and surface alterations of orthodontic aligners in the presence of resin composite attachments: An in-vitro study”, Research project funded by the European Orthodontic Society (EOS). Duration: 01/2023 - 12/2024. Project Supervisor: T. Eliades. Role: Research team member.
- ♦ «Bioconversion of CO<sub>2</sub> into High-added Value Bioproducts through Sustainable Microalgae Cultivation Processes - CO<sub>2</sub>-BioProducts». Research project co-funded by the European Union and Greek national funds through the Operational Program Competitiveness, Entrepreneurship and Innovation (NSRF 2014-2020), under the call RESEARCH – CREATE - INNOVATE (project code: T1EAK-02681). Duration: 07/2018 – 06/2022. NCSR-D Project Coordinator: T. Triantis.
- ♦ “Support to DG Environment: Water quality assessment and pollution control through the assessment and control of episodes of toxic cyanobacterial blooms”, Programme contract between the Ministry of Environment and Energy and the NCSR “DEMOKRITOS” for scientific and technical support to the General Secretariat of the Natural Environment of the Ministry of the Environment and Energy on issues related to environmental degradation of surface of drinking and surface water, in particular in cases of emergency, by carrying out the determination of cyanotoxins and the fulfilment of specific EU obligations of the country related to the monitoring of the levels of metals concentrations in the urban environment. Duration: 2021-2024. Project Coordinator: A. Hiskia.
- ♦ “Investigation of microorganism diversity in the water column of Lake Koronia with emphasis on toxic/harmful species and the determination of the toxins produced”. Research project funded by Lakes Volvi-Koronia Management Body. Duration: 10/2020 – 04/2022. Project Coordinator: S. Gkelis.
- ♦ “National Network on Climate Change and its Impacts—Climact” implemented under the sub-project 3 of the project “Infrastructure of national research networks in the fields of Precision Medicine, Quantum Technology and Climate Change”, funded by the Public Investment Program of Greece, General Secretary of Research and Technology/Ministry of Development and Investments. Duration: 10/2019 – 02/2023. NCSR-D Project Coordinator: K. Eleftheriadis.

**C. Research Team Member - Doctoral researcher**

- ♦ “New bioactive compounds with anticancer/antioxidant potential from sponge-associated cyanobacteria” (MIS 5004698). Research project co-funded by the Operational Program “Human Resources Development,

Education and Lifelong Learning” and by the European Union (European Social Fund) and Greek national funds. Duration: 06/2018 – 09/2019. Project Coordinator: S. Gkelis.

- ♦ “CYANOWATER- Cyanotoxins in Fresh Waters, Advances in Analysis, Occurrence and Treatment” Project No:2455. Research project funded by General Secretariat for Research and Technology (GSRT) - Greek Ministry of Education, Action “EXCELLENCE” (ARISTEIA I). Duration: 09/2012 - 09/2015. Project Coordinator: A. Hiskia.

## Industrial Research Projects

- ♦ “Study of explosive material decomposition in soil and water using the reducing reagent Munirem” (E-12807). Research project funded by Polyeco S.A. Project Coordinator: A. Hiskia. Duration: 02/2025 – 02/2028. Role: Research team member.
- ♦ “Study of control and decontamination - remediation of explosive residues in former facilities of the company Hellenic Defense Systems S.A. (EAS) in Elefsina” (E-12727). Research project funded by Polyeco S.A. Project Coordinator: A. Hiskia. Duration: 02/2024 – 02/2027. Role: Research team member.
- ♦ “Evaluation of the elution of hazardous substances from Detax orthodontic aligners.” Research project funded by Smart Orthodontic Solutions GmbH. Duration: 09/2024 - 12/2024. Project Coordinator: T. Eliades. Role: Research team member.
- ♦ “Soil decontamination study of part of the Hellenic Defense Systems S.A. (EAS) installations in Lavrion” (E-12676). Research project funded by Hellenic Defense Systems S.A. Project Coordinator: A. Hiskia. Duration: 10/2023 – 10/2024. Role: Research team member.
- ♦ “Bioactive compounds from microalgae with application in the agro-food-pharma-cosmetic industries” (E-12621). Research project funded by Solmeya SA. Project Coordinator: A. Hiskia. Duration 12/2022 - 12/2027. Role: Research team member.
- ♦ “Development of a multi-residue method for the determination of pesticides in water by LC-MS/MS. Determination of cyanotoxins and pesticides in drinking and surface water”, Research project funded by EYDAP S.A. Contract No 08081049-3. Duration 2008 - 2010. Project Coordinator: A. Hiskia. Role: Research team member.

## Contracted Services Projects

- ♦ “Analysis of electronic cigarette fillers and aromatic compounds. Contract with Alter Ego. Duration: 05/2016 - present. Coordinator: A. Hiskia.
- ♦ “Stability testing of pure PAHs CRMs BCR-092, BCR-093R, BCR-094, BCR-095, BCR-096, BCR-156R, BCR-160R, BCR-177R”. Contract with European Commission Directorate General Joint Research Centre (JRC), Directorate F – Health, Consumers and Reference Materials Reference Materials Unit. Duration: 04/2025 – 07/2025. Coordinator: A. Hiskia.
- ♦ “Stability testing of pure PAHs CRMs BCR-136R, BCR-152, BCR-155, BCR-157, BCR-158, BCR-270, BCR-337, BCR-340, BCR-341, BCR-342”. Contract with European Commission Directorate General Joint Research Centre (JRC), Directorate F – Health, Consumers and Reference Materials Reference Materials Unit. Duration: 07/2023 – 12/2023. Coordinator: A. Hiskia.
- ♦ “Stability testing of pure PAHs CRMs BCR-052, BCR-077R, BCR-078R, BCR-091, BCR-097, BCR-134, BCR-138, BCR-265, BCR-267, BCR-271”. Contract with European Commission Directorate General Joint Research

Centre (JRC), Directorate F – Health, Consumers and Reference Materials Reference Materials Unit. Duration: 05/2023 – 09/2023. Coordinator: A. Hiskia.

- ◆ “Stability testing of pure PAHs CRMs BCR-133, BCR-140, BCR-159, BCR-269, BCR-306, BCR-307, BCR-308, BCR-309, BCR-311”. Contract with European Commission Directorate General Joint Research Centre (JRC), Directorate F – Health, Consumers and Reference Materials Reference Materials Unit. Duration: 02/2022 – 10/2022. Coordinator: A. Hiskia.
- ◆ “Determination of cyanotoxins in water samples”. Contract with Decentralised Administration of Epirus-Western Macedonia. Duration: 2019 - 2023. Coordinator: A. Hiskia.
- ◆ “Determination of Cyanotoxins (12 MCs, NOD, CYN, ANA) in water, biomass and fish samples, pesticides (more than 200 compounds) and N, P in water samples from Lake Karla”. Contract with the Hellenic Ministry of Environment and Energy / Natural Environment and Climate Change Agency (NECCA), National Centre for Environment and Sustainable Development. Duration: 2017-2018. Coordinator: A. Hiskia
- ◆ “Determination of cyanotoxins in water and fish samples”. Contract with Decentralised Administration of Epirus-Western Macedonia. Duration: 08/2018 – 12/2018. Coordinator: A. Hiskia.
- ◆ “Determination of PAHs, pesticides and cyanotoxins in water”. Contract with EYDAP SA. Duration: 2013-2014. Coordinator: A. Hiskia.
- ◆ “Determination of taste and odor compounds in water”. Contract with EYDAP SA. Duration: 2009-2010. Coordinator: A. Hiskia.

## Grants – Awards

- ◆ **YRI Grant by CYANOACTION COST Action CA23160** for the participation to SETAC Europe 36<sup>th</sup> Annual Meeting, 17–21 May 2026 in Maastricht, the Netherlands and the presentation of the study entitled Chemodiversity of Microginins and Aeruginosins in Greek Freshwater Bodies: Elucidation of Novel Linear Peptides
- ◆ **YRI Grant by CYANOACTION COST Action CA23160** for the participation to 21<sup>st</sup> International Conference on Harmful Algae (ICHA2025), 19-24 October 2025 at Punta Arenas Chile and the presentation of the study entitled “Non-Targeted Mass Spectrometry-Based Metabolomics for Comprehensive Annotation of Cyanobacterial Metabolites in Greek Lakes”
- ◆ **Grant by WaterTOP COST Action CA18225** for the attendance of the Training School “*Risk assessment approaches for water T&O*” organized by the Istituto Superiore di Sanità- Rome (ISS), 16-18 October 2023, Rome, Italy
- ◆ **Grant by WaterTOP COST Action CA18225** for the attendance of the Training School “*Advanced GC-MS techniques for the analysis of water Taste & Odor*” organized by the Leibniz Institute for Food Systems Biology at the Technical Univ. of Munich (LSB), 3-5 May 2022, Freising, Germany
- ◆ **Grant by WaterTOP COST Action CA18225** for Short Term Scientific Mission (STSM) entitled “*Taste & Odor compounds (T&Os) and metabolomic profile of Microcystis aeruginosa PCC7806*” at the School of Pharmacy and Life Science, Robert Gordon University, Aberdeen, UK, 5 June – 21 July, 2023 in collaboration with Prof. Christine Edwards and Prof. Linda Lawton
- ◆ **Editor's Choice Article Toxins (Cover Vol. 13, Issue 6)** the article S.-K. Zervou *et al* “*Cyanobacterial Toxins and Peptides in Lake Vegoritis, Greece*” Toxins (2021) Vol. 13, Article number 394 <https://doi.org/10.3390/toxins13060394>

- ♦ **Toxins 2020 Best Paper Award** for the article E. Mantzouki *et al* “*Temperature Effects Explain Continental Scale Distribution of Cyanobacterial Toxins*” *Toxins* (2018) Vol. 10(4), Article number 156 <https://doi.org/10.3390/toxins10040156>
- ♦ **Fellowship by State Scholarships Foundation (IKY), Greece** for Post-doctoral research “Identification of bioactive cyanopeptides from Greek lakes”
- ♦ **Best Presentation Award by Hellenic Mass Spectrometry Society (HMSS)** for the presentation “*Optimization of Solid Phase Extraction (SPE) and LC-ESI-MS/MS for the Determination of Cyclic Peptide Cyanotoxins (CPCs) in Water*”, S.-K. Zervou, T. Triantis, T. Kaloudis, A. Hiskia at the 8th International Conference of Instrumental Methods of Analysis - Modern Trends and Applications (IMA 2013), 15 - 19 September, 2013, Thessaloniki, Greece
- ♦ **Grant by NETLAKE (ESSEM) COST Action ES1201** for the attendance of “*Training School for Analysis of High Frequency Data from Lake Monitoring Systems*” of NETLAKE COST Action, 1- 4 June, 2015, Rannu parish, Tartu County, Estonia
- ♦ **Best Presentation Award by Hellenic Mass Spectrometry Society (HMSS)** for the presentation “*Development of a multi-class analytical method for the determination of cyanotoxins in water using SPE, LC-ESI-MS/MS*”, S.-K. Zervou, C. Christophoridis, T. Kaloudis, T. Triantis, A. Hiskia at the 3rd Mediterranean Sea Region Countries Mass Spectrometry (MEDMS III) Workshop, 28 June – 2 July, 2015, Athens, Greece
- ♦ **Grant by CYANOCOST COST Action ES1105** for Sort Term Scientific Mission (STSM) “*Analysis of cyanobacterial metabolites and their correlation with the cyanobacterial species*” at the University of Gdansk, Poland, 11 January - 19 February, 2016 supervised by Prof. Hanna Mazur-Marzec
- ♦ **Grant by International Mass Spectrometry Foundation (IMSF)** for the attendance of “*3rd International Mass Spectrometry School & 11<sup>th</sup> Mass Spectrometry in Biotechnology & Medicine Summer School*” of International Mass Spectrometry Foundation (IMSF) and Nederlandse Vereniging voor Massaspectrometrie (NVMS) at the Centre for Advanced Academic Studies (CAAS), 2-8 July, 2017, Dubrovnik, Croatia

## Seminars – Training Schools

- ♦ Training School “Risk assessment approaches for water T&O” organized by the Istituto Superiore di Sanità-Rome (ISS), 16-18 October 2023, Rome, Italy – **Funded as a Trainee by WaterTOP COST Action**
- ♦ Training School “Advanced GC-MS techniques for the analysis of water Taste & Odor” organized by the Leibniz Institute for Food Systems Biology at the Technical Univ. of Munich (LSB), 3-5 May 2022, Freising, Germany - **Funded as a Trainee by WaterTOP COST Action**
- ♦ “BRUKER ESI-QTOF, Target Screener Training”, Bruker, 15 – 17 February 2022, online
- ♦ “3<sup>rd</sup> International Mass Spectrometry School & 11<sup>th</sup> Mass Spectrometry in Biotechnology & Medicine Summer School” of International Mass Spectrometry Foundation (IMSF) and Nederlandse Vereniging voor Mass Spectrometrie (NVMS) at the Centre for Advanced Academic Studies (CAAS), 2-8 July 2017, Dubrovnik, Croatia – **Funded as a Trainee by International Mass Spectrometry Foundation**
- ♦ “International Summer School - Resource Recovery from water and waste: appropriate Solutions in Low and Middle Income Countries” of CeTAmb LAB – University of Brescia, 4-8 July 2016, Brescia, Italy - **Funded as a Trainee by CeTAmb LAB**
- ♦ “Training School for Analysis of High Frequency Data from Lake Monitoring Systems” of NETLAKE COST Action, 1- 4 June 2015, Rannu parish, Tartu County, Estonia – **Funded as a Trainee by NETLAKE COST Action**

- ◆ “Specific topics of ISO/IEC 17025: Validation-Verification, Uncertainty, Calibrations, Internal Quality Control”, Priority, 8 - 9 November 2012, Athens
- ◆ “Laboratory Information Management Systems (LIMS)”, Thermo Fisher Scientific, 12 May 2011, Athens
- ◆ “Analytical techniques of High Performance Liquid Chromatography (HPLC)”, Rigas Labs S.A., 12 October 2010, Athens

## Collaborating laboratories and researchers

- ◆ Organic Pollutants Laboratory – AquOmixLab, EYDAP S.A., Dr. Triantafyllos Kaloudis
- ◆ Clinic of Orthodontics and Paediatric Dentistry, Center for Dental Medicine, University of Zurich (UZH), Prof. Theodore Eliades
- ◆ Division of Marine Biotechnology, Institute of Oceanography, University of Gdansk, Gdynia, Poland, Prof. Hanna Mazur-Marzec
- ◆ CyanoSol, School of Pharmacy and Life Science, Robert Gordon University, Aberdeen, UK, Prof. Christine Edwards and Prof. Linda Lawton
- ◆ Université de Pau, CNRS, E2S UPPA, Institute of Analytical and Physical Chemistry for the Environment and Materials (IPREM-UMR 5254), France, Prof. Ryszard Lobinski (Institute Director) and Prof. Joanna Szpunar
- ◆ Department of Sustainable Agriculture, University of Patras, Agrinio, Greece, Associate Prof. Maria Antonopoulou
- ◆ Department of Botany, School of Biology, Aristotle University of Thessaloniki, Thessaloniki, Greece, Associate Prof. Spyros Gkelis
- ◆ Key Laboratory of the Three Gorges Reservoir Region's Eco-Environment, College of Environment and Ecology, Chongqing University, Chongqing, China, Associate Prof. Zhongli Chen
- ◆ Department of Exposure Science, Helmholtz Centre for Environmental Research GmbH – UFZ, Leipzig, Germany, Prof. Annika Jahnke and Dr. Elisa Rojo Nieto
- ◆ Laboratory of Cell Proliferation and Ageing, Institute of Biosciences and Applications, National Centre for Scientific Research "Demokritos", Athens, Greece, Dr. Dimitris Kletsas (Institute Director) and Dr. Eleni Mavrogonatou
- ◆ Laboratory of Metabolomics, Faculty of Biochemistry Biophysics and Biotechnology, Jagiellonian University, Krakow, Poland, Dr. Ariel Kamiński
- ◆ Phycology Lab, Fort Lauderdale Research and Education Center, University of Florida/ IFAS, USA, Prof. Dail Laughinghouse IV and Dr. David Berthold
- ◆ School of Medicine and Surgery, Department of Pharmacy, University of Naples Federico II, Naples, Italy, Dr. Luciana Tartaglione
- ◆ Collaborative Microbial Metabolite Center (CMMC) at the University of California San Diego and University of California Riverside (USA), groups of Prof. Pieter Dorrestein and Prof. Daniel Petras

## Networks

- ◆ CYANOACTION COST Action CA23160 «Effective Lake management: reducing cyanobacteria by actions in the catchment» - Leadership position as **Grant Awarding Coordinator**
- ◆ WaterTOP COST Action CA18225 «Taste and Odor in early diagnosis of source and drinking Water Problems»
- ◆ CYANOCOST COST Action ES1105 «Cyanobacterial blooms and toxins in water resources: Occurrence, impacts and management»
- ◆ NETLAKE (ESSEM) COST Action ES1201 «Networking Lake Observatories in Europe»
- ◆ Virtual Multi-Omics Lab network, VMOL
- ◆ Hellenic Mass Spectrometry Society, HMSS – Member

- ◆ Latin American Metabolic Profiling Society, LAMPS – Member

## Evaluator of research proposals

- ◆ External reviewer of ANR – Agence Nationale de la Recherche, France

## Organizing committee of conferences

- ◆ 13<sup>th</sup> International Conference on Toxic Cyanobacteria (ICTC13), 4-8 May 2025, Chania, Greece  
<https://ictc13.gr/>

## Reviewer for scientific journals

- ◆ Marine and Freshwater Research (CSIRO Publishing)
- ◆ Toxins (MDPI)
- ◆ Toxicon (Elsevier)
- ◆ AWWA Water Science (Wiley)
- ◆ Frontiers in Ecology and Evolution (Frontiers) – serve as guest editor at the Research Topic "Aquatic Ecosystem Security and Environmental Health"

## Other Qualifications

- ◆ **LANGUAGES**  
Greek: Native  
English: Fluent, (ECPE) Proficiency of the University of Michigan
- ◆ **COMPUTING**  
CertiLab Core - Primary (Windows XP, Word XP, Excel XP, Access XP, Power Point XP, Internet-Outlook Exp. 6.0)

## Publications

### A. Peer reviewed papers

1. H. Mannocho-Russo, W. Gonçalves Nunes, S. Xing, F. de Oliveira, A. Caraballo-Rodriguez, P. Wender P. Gomes, V. Charron-Lamoureux, J. Agongo, N. Avalon, T. Bui, L. Cancelada, M. Chevrette, A. Cumsille, M. de Araújo Júnior, M. De Graeve, V. Deleray, M. Donia, M. Dzveta, Y. El Abiead, R. Ellis, D. Franklin, N. Garg, H. Gouda, C. Hamany Djande, A. Hiskia, B. Ho, C. Hughes, S. Hwang, S. Iliakopoulou, J. Iudicello, A. Jarmusch, T. Kaloudis, I. Koester, R. Konkel, H. Koolen, K. Kvitne, S. La Rosa, A. Lam, S. Lamichhane, M. Lephatsi, S. Letendre, S. Magyari, H. Mazur-Marzec, D. McDonald, I. Mohanty, M. Monge-Loría, D. Moore, T. Moura Veiga, M. Mulaudzi, L. Nephali, G. Nguyen, M. Orságh, A. Patan, T. Pluskal, P. Pope, L.S. de Medeiros, P. Stincone, A. Tekel, S. Thomas, R. Torres, S. Tsunoda, F. Tugizimana, M. van Faassen, F. Vasquez-Castro, G. Vitale, B. Wagner, C. Wang, S.-K. Zervou, H.N. Zhao, S. Zuffa, D. Petras, L.-I. McCall, R. Knight, M. Wang, P.C. Dorrestein «*Community Curation of Microbial Metabolites Enables Biological Insights of Metabolomics Data*» **under revision Nature Microbiology**

Preprint <https://www.biorxiv.org/content/10.64898/2026.01.24.701521v1>

2. J. Wang, Y. Wen, Y. Shao, A. Schäffe, E. Rojo-Nieto, K. Schmitz, A. Jahnke, S.-K. Zervou, A. Hiskia, Z. Chen «*Emerging contaminants in sediments of a tributary to the Yangtze river in the Three Gorges Reservoir Area: Fate, ecological risk assessment, and prioritization for management*» **Journal of Hazardous Materials** (2026) Vol.502, Article number 140894 <https://doi.org/10.1016/j.jhazmat.2025.140894>
3. H. Mazur-Marzec, M. Grabski, R. Konkel, M. Cegłowska, Z. Cyske, L. Gaffke, Ł. Grabowski, A.Hiskia, M. Kajs, T. Kaloudis, A. Napiorkowska-Krzebietke, K. Pierzynowska, E. Rintz, S. Iliakopoulou, S. Walat, S.-K. Zervou, M. Zielenkiewicz, G. Węgrzyn «*Genetic, metabolic and toxicological diversity within *Prymnesium parvum* (Haptophyte) from Polish waterbodies*» **Water Research** (2025) Vol.282, Article number 123744 <https://doi.org/10.1016/j.watres.2025.123744>
4. L. Stocker, S.-K. Zervou, S.N. Papageorgiou, S. Karakousoglou, T. Triantis, A. Hiskia, G. Eliades, T. Eliades «*Salivary levels of eluents during Invisalign™ treatment with attachments: an in vivo investigation*» **Progress in Orthodontics** (2024) Vol. 25, Article number 22 <https://doi.org/10.1186/s40510-024-00522-6>
5. A. Iliadi, S.-K. Zervou, D. Koletsi, M. Schätzle, A. Hiskia, T. Eliades, G. Eliades «*Surface alterations and compound release from aligner attachments in vitro*» **European Journal of Orthodontics** (2024) Vol. 46(4), cjae026 <https://doi.org/10.1093/ejo/cjae026>
6. T. Giannakis, S.-K. Zervou, T.M. Triantis, C. Christophoridis, E. Bizani, S.V. Starinskiy, P. Koralli, G. Mousdis, A. Hiskia, M. Kandyła. «*Enhancing the Photocatalytic Activity of Immobilized TiO<sub>2</sub> Using Laser-Micropatterned Surfaces*» **Applied Sciences** (2024) Vol. 14(7), Article number 3033 <https://doi.org/10.3390/app14073033>
7. T. Piel, G. Sandrini., E.F.J. Weenink, H. Qin, M.J. van Herk, M.L. Morales-Grooters, M. Schuurmans, P.C. Slot, G. Wijn, J. Arntz, S.-K. Zervou, T. Kaloudis, A. Hiskia, J. Huisman, P.M. Visser «*Shifts in phytoplankton and zooplankton communities in three cyanobacteria-dominated lakes after treatment with hydrogen peroxide*» **Harmful Algae** (2024), Vol. 133, Article number 102585, <https://doi.org/10.1016/j.hal.2024.102585>
8. S.-K. Zervou, N. A. Hammoud, S. Godin, A. Hiskia, J. Szpunar, R. Lobinski «*Detection of secondary cyanobacterial metabolites using LC-HRMS in Lake Karaoun*» **Science of the Total Environment** (2023), Vol. 892, Article number 164725, <http://dx.doi.org/10.1016/j.scitotenv.2023.164725>
9. M. Antonopoulou, P. Bika, I. Papailias, S.-K. Zervou, A. Vrettou, I. Efthimiou, G. Mitrikas, N. Ioannidis, C. Trapalis, P. Dallas, D. Vlastos, A. Hiskia «*Photocatalytic degradation of organic micropollutants under UV-A and visible light irradiation by exfoliated g-C<sub>3</sub>N<sub>4</sub> catalysts*» **Science of the Total Environment** (2023), Vol. 892, Article number 164218, <http://dx.doi.org/10.1016/j.scitotenv.2023.164218>
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3. S. Iliakopoulou, S.-K. Zervou, A.-I. Gialleli, T. Triantis, A. Hiskia, T. Kaloudis *“Mass Spectrometry Query Language (MassQL) - Driven Pipeline for Comprehensive Detection of Structurally Diverse Cyanopeptides in Environmental Datasets”* SETAC Europe 36<sup>th</sup> Annual Meeting, 17-21 May 2026, Maastricht, the Netherlands
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6. S.-K. Zervou, T. Triantis, A. Hiskia *“Thermal and alkaline degradation of Tetrazene: Identification of decomposition products via mass- spectrometry analysis”* 8<sup>th</sup> International Conference on Industrial and Hazardous Waste Management (Cretes 2025), 27-31 May 2025, Chania, Greece
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16. S.-K. Zervou “*Cyanotoxins and cyanopeptides in freshwaters: identification, occurrence, bioactivity*” Symposium on Multidisciplinary Collaboration for One Health: Challenges and Opportunities, 24-26 Sep 2023, Chongqing, China - **Invited speaker**
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19. S.-K. Zervou “*Cyanotoxins, emerging contaminants of freshwater ecosystems*”, 2022 International Symposium on the Eco-Environment and Health, 13 December 2022, Chongqing, China (virtual event) – **Invited speaker**
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26. A. Aquino Cruz, D.-M. Torres Calderón, S.-K. Zervou, T. Kaloudis, A. Hiskia, C.-P. Rodríguez López, O. Nájera Medina, C.-M. Bulit Gámez «*Cianoprocariotas cocoides y su influencia en la cianotoxicidad en un lago hipereutrófico de la Ciudad de México durante el 2018*», V Congreso de la SOMEFAN, 23-24 September 2019, Puerto Vallarta, Mexico
27. S.-K. Zervou «*Cyanotoxins, Emerging pollutants of freshwater*», Sino-German Scientific Workshop, 18-21 September 2019, Chongqing, China – **Invited speaker**
28. D. Konstantinou, S.-K. Zervou, E. Mavrogonatou, P. Giannogonas, S. Gkelis «*A preliminary assessment of the potential of sponge - associated cyanobacteria to produce bioactive compounds*», 11th International Conference on Toxic Cyanobacteria (ICTC11), 5-10 May 2019, Krakow, Poland
29. L. Tartaglione, F. Varriale, C.O. Miles, S.-K. Zervou, H. Mazur-Marzec, T. Triantis, A. Hiskia, T. Kaloudis, C. Dell'Aversano «*LC-HRMS versus LC-TANDEM-MS: a comparative approach for the identification of cyanotoxins in cyanobacterial biomass*», 11th International Conference on Toxic Cyanobacteria (ICTC11), 5-10 May 2019, Krakow, Poland
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33. S.-K. Zervou «*An innovative method for the analysis of different classes of cyanotoxins in one run*», 1st Cyanobacteria Twitter Conference, 24 October 2018, Twitter
34. S.-K. Zervou, C. Christophoridis, T. Kaloudis, T. Triantis, A. Hiskia «*Analysis of cyanotoxins in cyanobacterial biomass using LC-MS/MS*», 11th Aegean Analytical Chemistry Days (AACD), 25-29 September 2018, Chania, Greece
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58. M. Antoniou, T. Fotiou, S.-K. Zervou, T. Triantis, T. Kaloudis, A. Hiskia «*Evaluation of the efficiency of Advanced Oxidation Processes (AOPs) for the removal of various microcystins (MCs) under realistic conditions*», 4rd CYANOCOST Meeting, 12-15 November 2013, Sofia, Bulgaria,
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