

18TH ANNUAL WORKSHOP ON EMERGING HIGH-RESOLUTION MASS SPECTROMETRY (HRMS) AND LC-MS/MS APPLICATIONS IN ENVIRONMENTAL ANALYSIS AND FOOD SAFETY

BARCELONA,
10-11 OCTOBER 2022

ORGANIZED BY



<https://lcmsms.activacongresos.com/>





ANNOUNCEMENT AND CALL FOR PAPERS

Following the success of previous 17 International workshops on LC-MS/MS in environmental analysis and food safety (Barcelona 2005, Barcelona 2006, Guelph, Ontario 2007, Barcelona 2008, Toronto 2009, Barcelona 2010, Buffalo 2011, Barcelona 2012, Torto 2013, Barcelona 2014, Burlington, 2015, Barcelona 2014, Buffalo 2017, Barcelona 2018, Miami Beach 2019, Barcelona 2020-virtual and Ottawa-2021 virtual) we are presenting here the 18th International workshop on emerging high-resolution mass spectrometry (HRMS), as well as on LC-MS/MS applications in environmental analysis and food safety. The conference is planned to be IN PERSON. The main objectives of the workshop is to evaluate practical aspects of the usefulness of high resolution mass spectrometry and tandem mass spectrometric techniques for screening and quantitation of organic contaminants in the environmental and food samples. The following practical aspects and state of the art applications will be discussed:

- Advances in HRMS instrumentation and their applicability in environmental analysis and food authenticity

Susan Richardson, *Department of Chemistry & Biochemistry, University of South Carolina, Columbia, SC, USA*

HRMS uncovers missing chemical disinfection by-products in drinking water

Encarna Moyano, *University of Barcelona*
Ion mobility-mass spectrometry in the field of environmental and food analysis

Juan Francisco Reyes, *University of Jaen*
Unravelling the profile of phenolic compounds from virgin olive oil using different LC-HRMS approaches

Mike Thurman, *University of Colorado, Boulder, CO*
US Electrons Lead and Protons Follow--Accurate Mass and MS-MS Fragmentation of Small Molecules with Quantum Mechanical Considerations

- Non Target Analysis (NTA) and Bioinformatics applied to environmental and food samples

Juliane Hollander, *EAWAG, Switzerland*
Nontarget screening of persistent and mobile pollutants in groundwater" fit?

Roma Tauler, *IDAEA-CSIC*
ROIMCR chemometrics for HRMS environmental applications

- Advanced Wastewater Based Epidemiology (WBE) for public health

Diana Aga, *University of Buffalo, NY, US*
Pharmaceutical Monitoring Paired with RNA Detection in Wastewater for Early-Warning of Community Viral Outbreaks

Barbara Kasprzyk-Hordern, *University of Bath, UK*
Wastewater Based Epidemiology and One Health

Montserrat Carrascal, *Biological and Environmental Proteomics, I (IIBB-CSIC/IDIBAPS), Barcelona*
Environmental proteomics in wastewater-based epidemiology (EP-WBE). Determination of large biomolecules as biomarkers of population health and activities

- Green Analytical Chemistry using HRMS and/or LC/MS-MS applied to environmental and food analysis

Janusz Pawliszyn, *University of Waterloo, Canada*
Mass spectrometry green analytical chemistry solutions using optimized sample preparation strategies

- Large number of applications in environmental analysis and food authenticity such as water and soil/ sediment, biota and food, like fruits and vegetables, juices and meat

Yolanda Pico, *University of Valencia*
High resolution mass spectrometry based techniques at the crossroads of the analysis of contaminants and metabolites in plants: The case study of Saudi Arabia

Imma Ferrer, *University of Colorado, Boulder, CO, US*
Emerging contaminants in surface water after wildfire events--Identification by LC/Q-TOF-MS

Stephane Bayen, *McGill University, Canada*
LC-MS based fingerprinting as a tool for the integrated assessment of food quality, food safety and food authenticity: honey as a case-study

Amadeo R. Fernandez-Alba, *University of Almeria*
Mass Spectro Mass Spectrometry for Pesticide Residues in Food within European Green Deal. Quo Vadis

ORGANIZATION

This workshop is intended to be an informal venue that encourages an exchange of the latest information and ideas among scientists from academia, governmental agencies and industry. In a similar way as last years the workshop is jointly organized by IDAEA- CSIC (Barcelona, Spain) and ICRA – Catalan Institute for Water Research (Girona, Spain) , in collaboration with the Spanish Society for Mass Spectrometry (SEEM).

A virtual special issue (VSI) in Methods Elsevier) is planned. Authors interested to submit a contribution to this VSI please contact the conference chair. Deadline for submission of papers is December 1, 2022.

SCIENTIFIC COMMITTEE

Diana Aga, Buffalo, US

Andrzej Wnorowski, ECCC, Government of Canada

Robert Letcher, ECCC, Government of Canada

Ewa Dabek-Zlotorzynsk, ECCC, Government of Canada

Stephane Bayen, McGill University, Canada

Antoni Ginebreda, IDAEA-CSIC

Mira Petrovic, ICRA-CERCA

Damià Barceló, **Chair**, ICRA-CERCA and IDAEA-CSIC

ABSTRACT SUBMISSIONS DEADLINE: 22nd July 2022

REGISTRATION FEE

Fees (VAT 21% included)

	Early (until 22nd July)	Regular (from 23rd July)
General	325,00 €	375,00 €
Ph. D. Student*	125,00 €	175,00 €

* Student registration. Student registration is available for Phd students ONLY.

The student rate is not available to post-doctorates

VENUE

Residència d'Investigadors

Carrer Hospital, 64
Barcelona

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