



4th INTERNATIONAL CONFERENCE ON RISK ASSESSMENT OF PHARMACEUTICALS IN THE ENVIRONMENT

Barcelona, 9-10 October 2023

OBJECTIVES AND TOPICS

The Fourth International conference on Risk Assessment of Pharmaceuticals in the Environment (ICRAPHE) will take place in Barcelona, Spain, next October 9 and 10, 2023. This is a follow up of the First ICRAPHE international conference organized in Paris, September 8-9, 2016, the Second one in Barcelona, 28-29 November 2019 and the Third one (virtual) in Hangzhou, China, 14 October 2022.

The following themes have been selected:

- Environmental Monitoring including Non Target Analysis, Bioanalytical tools, Sensors and Bioinformatics of Pharma residues and Antibiotic Resistance Genes in the Water Cycle (session 1)
- Wastewater-Based Epidemiology for Public Health (session 2)
- Ecological and Health Effects, Hazards and Risks (session 3)
- Microplastics as vectors of Pharma Residues in the environment (session 4)
- Degradation and Innovative Remediation Technologies (session 5)

This conference aims to capture outstanding examples of active research in this field and to draw the attention to future research needs.

For those interested to submit a full manuscript, it is expected that a Virtual Special Issue will be planned in one of the Elsevier journals.

SCIENTIFIC COMMITTEE

Damià Barcelo

ICRA and IDAEA-CSIC, Girona and Barcelona, Spain, **Chair**

Yves Levi

Univ. Paris Sud and Faculty of Pharmacy, Catenay-Malabry, France and Academie Nationale de Pharmacie, Paris, France, **Co-Chair**

Antoni Ginebreda

IDAEA-CSIC, Barcelona, Spain

Alistair Boxall

University of York, UK

Miquel Salgot de Marçay

Faculty of Pharmacy and Royal Academy of Pharmacy of Catalonia, Barcelona, Spain

Maria Luisa Marina

University of Alcala and Group of Science and (Bio)Analytical Technologies (RSEQ), Spain

Dion Dionysiou

University of Cincinnati, US

Haibo Zhang

Zhejiang A & F University, Hangzhou, China

Qian Sui

East China University of Science & Technology, Shanghai, China

Organized by:



VENUE:

Residència d'Investigadors
C/Hospital, 64 - 08001 Barcelona

Activa Congressos

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PLENARY LECTURE

Alistair Boxall, University of York, UK

PHARMACEUTICAL POLLUTION: GENERAL PROBLEMS, CHALLENGES AND SOLUTIONS

KEYNOTE LECTURES

SESSION 1

Laura Lechuga

NanoBiosensors and Bioanalytical Applications Group (ICN29/ CSIC, BIST and CIBER-BBN, Bellaterra, Spain

NEW PORTABLE SENSOR TECHNOLOGY FOR THE DETECTION OF PHARMACEUTICAL RESIDUES IN THE AQUATIC ENVIRONMENT

Martin Elsner

Technical University of Munich, Germany

COMPOUND SPECIFIC ISOTOPE ANALYSIS (CSIA) TO TRACE SOURCES AND TRANSFORMATION OF PHARMACEUTICALS IN THE ENVIRONMENT

Giuliana Bianco

Department of Sciences, University of Basilicata, Potenza, Italy

DETERMINATION OF PHARMACEUTICAL RESIDUES IN INFLUENT AND EFFLUENT WASTEWATER SAMPLES FROM TREATMENT PLANTS BY A THREE-PHASE SOLVENT SYSTEM LC-MS METHOD

SESSION 2

Nikolaos S. Thomaidis

University of Athens, Greece

WBE OF PHARMACEUTICALS DURING COVID-19 USING TARGETED AND NON-TARGETED APPROACHES

Barbara Kasprzyk-Hordern

University of Bath, UK

POPULATION DRIVEN BIOCHEMICAL BURDEN IN A MULTI-CITY STUDY: ANTIBIOTICS, ARGS AND IMPLICATIONS FOR ONE HEALTH ACTIONS

SESSION 3

Yolanda Pico

University of Valencia, Spain

OPTIONS FOR A STRATEGIC APPROACH TO ESTABLISH THE PATTERN AND RISK OF PHARMACEUTICALS IN THE ENVIRONMENT: THE CASE STUDY OF SAUDI ARABIA

Lyudmyla Symochko

Uzhhorod National University, Uzhhorod, Ukraine; Institute of Agroecology and Environmental Management NAAS, Kyiv, Ukraine

ANTIBIOTICS IN AGRICULTURE: RISK ASSESSMENT FOR THE ENVIRONMENT AND HUMAN HEALTH

SESSION 4

Teresa Rocha-Santos

University of Aveiro, Portugal

PHYSICOCHEMICAL INTERACTIONS OF MICROPLASTICS AND PHARMACEUTICAL RESIDUES

Lucia H. Santos,

ICRA-CERCA, Girona, Spain

SORPTION AND RISK ASSESSMENT OF PHARMACEUTICALS RESIDUES ATTACHED TO MICROPLASTICS

Amadeo R. Fernandez-Alba

University of Almeria

RISK ASSESSMENT OF PHARMACEUTICALS AND MICROPLASTICS IN IRRIGATED CROPS WITH RECLAIMED WATER IN ALMERIA, SOUTH EAST OF SPAIN

Javier Hernández Borges

University of La Laguna

MARINE MICROPLASTICS AND PHARMACEUTICALS: WHAT DO WE KNOW?

SESSION 5

Dionysios (Dion) D. Dionysiou

University of Cincinnati, Cincinnati, OH, USA

DEGRADATION OF PHARMACEUTICALS BY ADVANCED TECHNOLOGIES AND NEW INSIGHTS ON THE DEGRADATION PATHWAYS

Paola Verlicchi

University of Ferrara, Italy

RECLAIMED WASTEWATER: TREATMENTS AND RISK ASSESSMENT

IMPORTANT DATES

ABSTRACT SUBMISSION

Abstract for oral or poster presentation should be submitted through the on-line system in the conference website.

Oral presentations

From 1st December 2022 to 1st May 2023

Poster presentations

From 1st December 2022 to 1st September 2023

REGISTRATION

Fees (VAT 21% included)

	Early (until 1st June 2023)	Late (from 2nd June 2023)
General	375,00 €	425,00 €
Ph. D. Student	175,00 €	225,00 €

The registration fee includes the attendance to all sessions, the conference banquet, a copy of the proceedings (USB), daily lunches, coffee breaks and certificate of attendance.

Registration should be submitted through the on-line form in the conference website.

With the scientific support of:



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