

Scientific Program

5th International Conference on Risk Assessment of PHarmaceuticals in Environment

24 June 2024

8:15	<i>Registration</i>
	Welcome and Introduction
9:00	Giuliana Bianco - <i>President of Divisione di Spettrometria di Massa - SCI</i> Damia Barcelò - <i>University of Almeria, Spain</i>
	Presentation of Prince Sultan Bin Abdulaziz International Prize for Water (PSIPW)
	Session 1: Exposure assessment - Chairs: Marco Gaspari, Paola Verlicchi
9:25	PL01 - Nontarget screening approaches by HRMS and applications on the pharmaceuticals detection in environmental samples Nikolaos S. Thomaidis - <i>National and Kapodistrian University of Athens, Greece</i>
10:15	OR01 - Occurrence of pharmaceuticals in surface water sources and drinking water of the Romagna area (Italy). Marilin Profita - <i>University of Bologna, Italy</i>
10:35	OR02 - Presence of Pharmaceuticals and Other Emerging Contaminants in Biogenic Matrices Used in Agriculture as Fertilizer Sara Castiglioni - <i>Istituto di Ricerche Farmacologiche Mario Negri, Italy</i>
10:55	OR03 - Retrospective Data Mining for the Estimation of Public and Environmental Exposure to Household and Industrial Chemicals Eva Hawkins - <i>University of Bath, United Kingdom</i>
11:15	<i>Poster Session & Coffee Break</i>
	Session 2: Wastewater-Based Epidemiology (monitoring) for Public Health - Ecological and Health Effects, Hazards and Risks - Chairs: Fulvio Magni, Sara Castiglioni
12:15	KN01 - Pharmaceuticals and emerging contaminants in the environment: estimating environmental and public health risks using water-based epidemiology Barbara Kasprzyk-Hordern - <i>University of Bath, United Kingdom</i>
12:50	OR04 - Untargeted nLC-MS/MS proteomic biomarkers characterization on population, health, environment and lifestyle status of three different neighbourhoods of Barcelona Carmen Tesoro - <i>University of Basilicata, Italy</i>
13:10	OR05 - Wastewater-based epidemiology as tool to monitor health and lifestyle of communities in near-real time Nicola Ceolotto - <i>University of Bath, United Kingdom</i>
13:30	OR06 - A first evaluation of presence of Polyfluoroalkyl Substances in stranded dolphins, sea turtles and sharks (Tuscany Coast) Michele Mazzetti – <i>Agenzia Regionale per la Prevenzione e Protezione Ambientale della Toscana, Italy</i>
13:50	<i>Poster Session & Buffet Luch</i>

Session 3: Degradation and Innovative Remediation Technologies part I - Chairs: Sabino Bufo, Emanuela Gregori

15:00	KN02 – The impact of using reclaimed waters for greenhouse crop irrigation: microplastics, pesticides and emerging contaminants <i>Amadeo R. Fernández Alba - University of Almeria, Spain</i>
15:35	OR07 - Using a flow mode tubular reactor under natural solar irradiation for antibiotics' removal from water <i>Diana Lima - Health & Technology Research Center, Polytechnic University of Coimbra, Portugal</i>
15:55	OR08 - Biochar Derived from Forest Residues: A Sustainable Solution for Venlafaxine Removal, Promoting Waste Valorization and Water Reuse <i>Oussama Baaloudj - University of Basilicata, Italy</i>
16:15	OR09 - Sustainable photocatalysts for the treatment of antibiotic-polluted waters: A central composite design for optimizing the synergistic roles of TiO₂, Carbon Quantum Dots, and Magnetic Nanoparticles <i>Valentina Silva - University of Aveiro, Portugal</i>
16:35	INSTRUMENTATION PILL: Innovative solutions to analyze trace pollutants in environmental samples <i>Giuseppe Federico Labella - Bruker Italia Srl</i>
16:45	<i>Poster session & Welcome Party</i>
19:30	<i>Dinner at restaurant "Da Gelsomina", Anacapri</i>

25 June 2024

Session 4: Degradation and Innovative Remediation Technologies part II - Chairs: Filomena Lelario, Amadeo R. Fernandez Alba

9:00	KN03 Recent advances in the degradation of pharmaceuticals residues in macroscale and microscale photoreactors <i>Gianluca Li Puma - University of Palermo, Italy</i>
9:35	OR10 - Photodegradation behaviour of antibiotics in environmental matrices under simulated solar radiation <i>Carla Patrícia Silva - Health & Technology Research Center, Polytechnic University of Coimbra, Portugal</i>
9:50	OR11 - Enzyme-functionalized biochar for the enhanced removal of the anti-inflammatory pharmaceutical diclofenac from water <i>Hugo F. Rocha - University of Aveiro, Portugal</i>
10:10	OR12 - Innovative methods to remove phosphodiesterase 5 inhibitors from polluted water <i>Angelica Rebecca Zizzamia - University of Basilicata, Italy</i>
10:30	OR13 - Optimization of functionalized biomass-based materials for the removal of antibiotics from wastewater <i>Vânia Calisto - University of Aveiro, Portugal</i>
10:50	<i>Poster session & Coffee Break</i>

Session 5: Risk assessment - Chairs: Cecilia Bergamini, Fabiana Piscitelli

11:30 **OR14 - Combating antimicrobial resistance through wastewater “fingerprinting”:
Surveillance and environmental risk assessment of antimicrobial usage in Welsh hospitals
and communities**

Neil Byrnes - *University of Bath, United Kingdom*

11:50 **OR15 - Overlooked Metabolic Pathways: The Impact of Phase II Metabolism of
Pharmaceuticals on a One Health Assessment**

Harry Elliss - *University of Bath, United Kingdom*

12:10 **OR16 - Tailoring Prioritization Strategies for Risk Assessment and Identification of
Indicator Substances of Emerging Concern**

Mira Celic - *Catalan Institute for Water Research, Spain*

12:30 **O17 - Pharmaceuticals in Water, a struggle that we can fight with mainly a single
stationary phase**

Emanuele Ceccon - *Restek, Italy*

12:50 **INSTRUMENTATION PILL: Exploring the Environmental Impact: Shimadzu's Analysis
of Toxic Substances Adsorbed on Microplastics**

Domingo Pastran - *Shimadzu Italia*

13:00 *Presentation of the next ICRAPHE conference in Aveiro from Vania Calisto*

13:20 *Awards & Closing Ceremony*

13:30 *Buffet Lunch*

POSTER LIST

**PO01-Effects of environmental metformin and its main metabolite guanyurea on the marine mussel
Mytilus galloprovincialis, at adult and early life stages**

Paola Valbonesi, *University of Bologna, Italy*

PO02-PFAS presence in Antarctic drinking waters

YolandaValcarcel Rivera, *Rey Juan Carlos University, Spain*

PO03-Degradation of estrogenic hormones using UV-Visible Spectroscopy

Ana Paula Fonseca, *Polytechnic University, - Coimbra Health School, Portugal*

PO04-Degradation of estrogenic hormones using Capillary Electrophoresis

Ana Paula Fonseca, *Polytechnic University- Coimbra Health School, Portugal*

PO05-Wastewater Based Epidemiology: Exposure to chemicals via household contaminants

Ben Faill, *University of Bath, United Kingdom*

PO06-Evaluation of pharmaceuticals in water after the flood occurred in Emilia-Romagna in 2023: a focus on Ravenna area

Cristina Luccarini, *University of Bologna, Italy*

PO07-Quantification of nanoplastic uptake and distribution in the root, stem and leaves of the edible herb *Lepidum sativum*

María Dolores Hernando Guil, *Consejo Superior de Investigaciones Científicas, Spain*

PO08-Assessment of Microplastic Release from Reclaimed Water to Agricultural Soil

Amadeo Rodriguez Fernandez-Alba, *University of Almeria, Spain*

PO09-Colorimetric and visual detection of ciprofloxacin using silver nanoparticles

Goreti Pereira, *University of Aveiro, Portugal*

PO10-Exploring enzymatic biotransformation of pharmaceutical drugs for water treatment

Ângela Augusta Almeida Soares de, *University of Aveiro, Portugal*

PO11-PFAS distribution in drinking water, surface and groundwater in Basilicata region in 2023

Grazia Accoto, *Agenzia Regionale per la Prevenzione e Protezione Ambientale della Basilicata, Italy*

PO12-Determination of heavy metals carried out by applying the ICP-MS technique in surface waters intended for drinking water production and in drinking water - ARPA Basilicata controls

Claudia Mancusi, *Agenzia Regionale per la Prevenzione e Protezione Ambientale della Basilicata, Italy*

PO13-Distribution of pharmaceuticals in coastal water of the Iberian Peninsula

YolandaValcarcel Rivera, *Rey Juan Carlos University, Spain*

PO14- Biochar Fixed-bed Column:reducing water turbidity and contaminants from surface water

Simona Panariello, *Acquedotto Lucano Spa, Italy*
