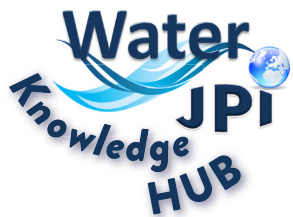


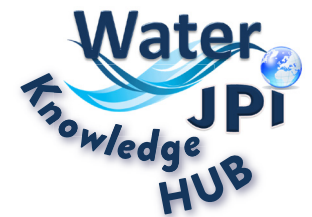
Knowledge Hub on Contaminants
of Emerging Concern

Who's Who



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Water JPI Knowledge Hub

The purpose of the Water JPI Knowledge Hub is to share knowledge that can be used by regulatory authorities, environmental scientists and that allow professionals to make informed decisions.

The Water JPI Knowledge Hub brings together experts from several research areas to collaborate and communicate across different scientific disciplines and with decision makers.

This is a short presentation of the experts gathered in the Water JPI Knowledge Hub on Contaminants of Emerging Concern:

Adrian Covaci



Adrian Covaci is a professor of Environmental Toxicology and Chemistry at the University of Antwerp, Belgium. His research focuses on the analytical, environmental, biomonitoring aspects and risk assessment of emerging organic contaminants and elucidation of exposure pathways to humans for organic contaminants. His focus is also estimation of fate, occurrence, and consumption of illicit drugs and pharmaceuticals via wastewater analysis.

He is an Associate Editor of Science of the Total Environment and Food and Chemical Toxicology, as well as member of the Editorial Board of Environment International.

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Andrew Johnson

Andrew Johnson is a professor at the Centre for Ecology and Hydrology at Brunel University in UK. He has developed considerable expertise in the fate and risks of chemicals in the environment such as the fate of pesticides in soils and groundwater. His focus is also the fate of endocrine disrupting chemicals together with pharmaceuticals in rivers and the fate of nanoparticles in soils and rivers.

Andrew Johnson has developed studies in risk assessment of endocrine disrupting chemicals, including the development of a model to predict oestrogen concentrations in sewage effluent.

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Serge Chiron

Chiron Serge is a Researcher Director in environmental chemistry at Institut de Recherche pour le Développement at Montpellier University in France. He is involved in Aware - Assessing the fate of pesticides and wastewater-borne contaminants in agricultural crops and their environmental risks. He is also involved in and IMAP - Metabolomic approaches for the determination of markers of exposure and effect to pharmaceuticals in aquatic organisms.

Previously he worked as a Permanent Lecturer at Marseille University. He contributed to a Research chair at Veolia/Montpellier University working on Risk analysis relating to emerging contaminants in water bodies. He was also involved in PEP-SEA - Transformation and transfer of PPCP:s and their metabolites.

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Corinne Le Gal La Salle

Corinne Le Gal La Salle is a Professor at the Nîmes University, France and a member of the CHROME research group focusing on the Detection, Evaluation and Management of chronic and emerging risks. She coordinated the Water JPI 2013 project "PERSIST", investigating the fate and persistence of emerging contaminants and multiresistant bacteria in surface water. She also drove several projects investigating the fate of pesticides, pharmaceuticals and personal care products or radionuclides in the environments. Since 2018 she act as an expert for the National Research Programme on Environmental and Occupational Health for the ANSES. Previous positions include a lecturership at the Flinders University in South Australia.

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Damià Barceló

Damià Barceló is a professor at the Catalan Institute for Water Research, Girona (ICRA) in Spain to solve different environmental problems in the field of water quality.

His contributions have been made particularly in the development of methods for controlling organic pollution by emerging pollutants in waste and natural water. During the last ten years his research group has obtained key results that have provided better monitoring data for risk assessment of surface waters, waste waters and ground waters as



well as provided results on risk and remediation studies for emerging pollutants.

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Don Pierson

Don Pierson is a Senior Research Scientist at the Department of Limnology and Erken Laboratory, Uppsala University, Sweden. He is responsible for developing the Erken Laboratory's automated monitoring and data sharing capabilities and stimulating Erken's participation in scientific research networks.

His past experience includes Section Chief of Water Quality Modelling Program at New York City Department of Environmental Protection. In this position he was responsible for a modelling program which developed and applied hydrodynamic and water quality models for all New York City drinking water reservoirs. He also led a comprehensive assessment of the effects of Climate change on the New York City Water Supply.

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Elzbieta Plaza

Elzbieta Plaza is a professor in Water and Wastewater Technology at the Royal Institute of Technology (KTH) in Sweden. She is the Principal Investigator of WP4 on main stream N removal and also involved in WP2 on main stream organic matter removal from municipal wastewater in the on-going project "Pioneer_STP" funded by Water JPI.



Her previous experiences include development of new treatment technologies and methods of wastewater and sludge characterization. During the last years most of her research projects has been conducted at Hammarby Sjöstadsvverk research facility. She was also actively engaged in network building between Sweden and the Universities in the Baltic Sea Region.

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Enda Cummins

Enda Cummins is an Associate Professor in the UCD School of Biosystems and Food Engineering at University College Dublin, Ireland. He is currently school Head of Research and Innovation and Chair of the schools Research Committee. His main research area is risk assessment and predictive modelling, with a particular focus on implications for human health and environmental contamination.

He has developed his research area to encompass exposure and risk/benefit assessment from chemicals and microbials/protozoa in different media. He is partner in the TRACE Water JPI project with responsibility for assessing human exposure to selected Antimicrobial Resistant Organisms from surface water use.

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Eunice Ubomba-Jaswa

Eunice Ubomba-Jaswa is currently a Research Manager for Water Resources Quality at the Water Research Commission (WRC) in South Africa. The emerging contaminants (EC) programme in the WRC is guided and managed by her. The focus of the EC programme is to identify current and long-term water quality challenges for complex chemical and microbial pollutants of national relevance, and to identify opportunities to reduce water quality risks and vulnerabilities. The focus is also to develop solutions for addressing water quality challenges in order to enhance water sector resilience and sustain development.



Her previous posts include Senior Microbiologist at the Council of Scientific and Industrial Research in the Water Resources Competency Area where she was technical lead on a number of EU and national parliamentary grant funded projects.

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Fiona Walsh

Fiona Walsh is a lecturer and research group leader for the Antimicrobial Resistance and Microbiomes research group at Maynooth University, Ireland. Her group focuses on AR mechanisms, particularly mobile mechanisms, present and capable of moving in animal, environmental, plant and human microbiomes. They also analyse the changes in the microbiome compositions of these samples to study the effects of changes in the host environment on the microbiomes.



Following her BSc, she studied for her PhD at Edinburgh University: investigating how human pathogens develops resistance to a novel antibiotic. This research continued with a Health Research Board Fellowship at Trinity College Dublin and later she moved to the Department of Agriculture in Switzerland.

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Henning Sørum

Henning Sørum is a Professor at the Norwegian University of Life Sciences, Department of Food Safety and Infection Biology.

His Previous experiences include teaching and research within veterinary microbiology with focus on antibiotic resistance of bacterial fish pathogens and antibiotic resistance occurrence in sewage systems. He has been involved in different research projects on EU and Norwegian levels, such as StARE: Analysing the occurrence of antibiotic resistance in European sewage and the effect of the sewage plant function for the drug resistance development. He has also been involved in ABAWARE: Utilization of the sediments from RAS fish farms in freshwater in Europe, coordinator.

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Ignasi Rodriguez-Roda

Ignasi Rodriguez-Roda is Full Professor at the Chemical Engineering Department of the University of Girona, Spain. He is also the Head of Technologies and Evaluation at the Catalan Institute for Water Research. He is currently the coordinator of the Water JPI, WaterWorks2014 project WATINTECH: smart decentralized water management through a dynamic integration of technologies. His main research expertise is in the field of water and wastewater treatment.

He has been involved in more than 50 public/private R+D+i and transfer of technology projects both at national and European level, including the revision of the water strategic programme of the Girona Town Hall.

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Javier Marugan

Javier Marugan is a Full Professor of Chemical Engineering and Director of the Wastewater Treatment Plant and Water Analytical Laboratory at Universidad Rey Juan Carlos in Spain.

He has been working in photochemical processes for water treatment for 20 years, being the leader investigator of URJC in the European Projects PCATDES and WATERSPOUTT and as coordinator of the Water JPI European Project "Integrated Processes for Monitoring and Treatment of Emerging Contaminants for Water Reuse". His scientific outcome has been published in books, more than 70 articles in peer-reviewed jour-



nals and more than 150 contributions to international congresses.
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Karin Wiberg

Karin Wiberg is a Professor at the Department of Aquatic Sciences and Assessment, Swedish University of Agricultural Sciences (SLU). Her research interests are organic environmental chemistry, method development for target, suspect and non-target analysis of persistent pollutants in aquatic environments and contaminants of emerging concerns.

Prior to this position, Karin Wiberg worked as guest professor at SLU and as senior lecturer at Umeå University.

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Kevin Jewell

Kevin Jewell is a research assistant at the Federal Institute of Hydrology in Germany. He recently obtained his PhD in the same research group in the area of CECs and transformation products in wastewater treatment. He was involved in the Water JPI project FRAME in assisting the coordination of the project and in the area of CEC analysis in wastewater, groundwater and surface waters.

Currently he is working in a follow-on project establishing routine non-target analysis strategies for surface waters, looking both at sampling and data analysis strategies.

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Kirsti Loukola-Ruskeeniemi

Kirsti Loukola-Ruskeeniemi works in the Geological Survey of Finland (GTK) and she coordinates the Agri As Water JPI project on arsenic in agricultural soil and water.

Her previous posts include Director in the Ministry of Economic Affairs and Employment and Division Manager in the GTK with international projects in Europe and Africa. She has also been the Head of the Geoenvironmental Technology Section in the Helsinki University of Technology. Kirsti Loukola-Ruskeeniemi has acted as the international vice-leader of three UNESCO projects and she has been the member of a Research Council in the Academy of Finland providing a wide academic perspective.

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Kristof Demeestere

Kristof Demeestere is an Associate Professor at Ghent University, Belgium. He works at the Research Group EnVOC (Environmental Organic Chemistry and Technology), Department of Green Chemistry and Technology within the Faculty of Bioscience Engineering.

His research interests and activities deal with organic trace compounds in ecosystems with particular focus on high-resolution mass spectrometry based screening and (ultra-)trace analysis, new strategies for passive sampling and monitoring the occurrence, fate and behaviour of emerging organic micropollutants in the aquatic/marine environment, and ozone-



or catalyst-based advanced oxidation processes for their removal from (waste) water.

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Marko Virta

Marko Virta is a University Lecturer in Microbiology at University of Helsinki in Finland. He is involved in national as well as in international research projects involving antibiotic resistance genes in production animals and the environment such as WaterWorks 2015 ERA-NET Call; Antibiotic resistance in Indonesia, Stopping Antibiotic Resistance Evolution (StARE) and Water Joint Program Initiative (JPI) Pilot Call.

Marko Virta has published research within different areas of Antibiotic Resistance, Critical knowledge gaps and research needs related to the environmental dimensions of antibiotic resistance.

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Nonhlanhla Kalebaila

Nonhlanhla Kalebaila is an applied scientist with special interests in water and waste management. At the Water Research Commission, in South Africa. She manages a portfolio of research on drinking water quality, water supply, treatment and distribution.

Nonhlanhla Kalebaila has expertise in environmental microbiology and chemistry, engineering and geography disciplines. Nonhlanhla Kalebaila possesses a PhD in Chemical Technology, specializing



in Water Utilisation from the University of Pretoria. She also possesses an MSc degree in Biochemistry, a BlnstAgrar degree in Food Production and Processing and a BSc degree in Environmental Sciences and Biology. She has worked with environmental science, applied science, biochemistry, microbiology, nuclear technology and water and wastewater treatment.

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Norbert Kreuzinger

Norbert Kreuzinger is coordinating the Water JPI Knowledge Hub on Emerging Pollutants.

Since 2006 Norbert Kreuzinger is an Assistant Professor at TU Vienna, Austria. His main research topics are linked to the effects of treated wastewaters on the aquatic environment considering chemistry and microbiology of surface waters and wastewater. Fate assessment, risk management and technology development for contaminants of emerging concern related to wastewater and surface waters today are key focus.

His scientific work is focussing on reuse aspects of treated wastewater and full scale implementation of advanced wastewater treatment technologies for further removal of ECE:s from municipal wastewater considering toxicological requirements.

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Raf Dewil

Raf Dewil is a professor at the Faculty of Engineering Technology at KU Leuven in Belgium. He is also the Editor-in-Chief for the Journal of Environmental Management.

His research interests are within the area of Advanced biological and chemical wastewater treatment; Advanced Oxidation Processes; Sludge treatment and disposal; Anaerobic digestion processes and Production of renewable chemicals from biomass and waste.

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Titus A M Msagati

Titus A M Msagati is a Professor at the Research Unit of Nanotechnology and Water Sustainability at the University of South Africa. His research interests are Aquatic toxicology, method development for the analysis and technologies for the remediation of pollutants in aquatic environments and contaminants of emerging concerns.

Prior to his position, Titus A M Msagati worked at the University of Johannesburg, South Africa, at various levels from Senior research fellow, senior lecture and associate professor. He has also worked at the University of Kwazulu Natal as a lecturer in analytical chemistry.

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Valeria Dulio

Valeria Dulio is currently a manager of the program Emerging substances. She is involved in several expert groups in the field of emerging substances at European level and at national level in support of the French Ministry of Ecology.

She coordinates the NORMAN network, today established as a permanent network with more than 70 members from 20 countries. Previous work positions include Coordinator of EU-funded METROPOLIS, a project aimed at improving performance of environmental measurements and monitoring tools in support of EU policies and Seconded national expert at EC-JRC Seville, European Commission.

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