



## JUNIOR WATER JUMP

# 3rd Water JPI Conference

## „FROM RESEARCH TO PRACTICE: POLLUTANTS, PATHOGENS AND ANTIMICROBIAL RESISTANCES IN THE WATER CYCLE“

How can research and practice cooperate on „pollutants, pathogens and antimicrobial resistances in the water cycle“?

## JUNIOR WATER JUMP

June 2021 marked the start of the first-ever JUNIOR WATER JUMP, a water-related start-up competition as part of the 3rd Water JPI Conference.

The JUNIOR WATER JUMP is focusing on solutions with initial evidence to assess, to reduce and/or to avoid pollutants, pathogens and antimicrobial resistant bacteria in the water cycle. Therefore, the competition is aimed at innovators and startup companies with “Marketable and efficient solutions for the control of pollutants, pathogens and antimicrobial resistances in the water cycle”.

An experienced international and interdisciplinary jury selects the winner. The winners will present their solutions in a short video pitch and will be awarded at the Conference with a prize of 13.000€.

The JUNIOR WATER JUMP is organized by RWW Rheinisch-Westfälische Wasserwerksgesellschaft mbH.

**November 17th 2021**

Hybrid-Event: presence and in the form of an online transmission.

### Venue:

Stadthalle Mülheim an der Ruhr

Am Schloß Broich 2-4

45479 Mülheim an der Ruhr

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## Contact

If you have any questions please contact our event management.

**Janine Rosen / Event Manager**

**IWW Water Centre**

E-Mail: [info@waterjpi-conference-muelheim.com](mailto:info@waterjpi-conference-muelheim.com)

Phone: +49 (0)208 40303- 378

**Conference Fee: 60,00€**

**Registration online: [waterjpi-conference-muelheim.com](http://waterjpi-conference-muelheim.com)**

### COVID-19 pandemic:

We as organizers obey all applicable local, state, tribal, and territorial laws, regulations and rules. Due to the worldwide COVID-19 pandemic we reserve the right to taking our event fully online if necessary.

### Requirements for participation in person:

- » Be fully vaccinated (2 doses when so required by the vaccine) for more than two weeks
- » Be in possession of a negative PCR test carried out no more than 48 hours prior to the day of attendance at the event
- » Be in possession of a certificate of recovery from Covid-19. The certificate of recovery is valid 10 days after the positive PCR test and has a duration of 6 months (180 days)

**Wearing masks, physical distancing, hand hygiene, and respiratory etiquette are mandatory on event premises.**

The 3rd Water JPI Conference is hosted by the German Federal Ministry of Education and Research (BMBF) and organized by IWW Water Centre.

## 3rd Water JPI Conference

on November 17, 2021 in Mülheim/Ruhr and online

The occurrence of pathogens and contaminants of emerging concern in water resources are one of the most serious risks in our environment. As a matter of fact, the aquatic environment and the security of supply for people with drinking water are equally threatened. Therefore, science, water management, politics and civil society must not lose any time in meeting this challenge in a collaborative and interdisciplinary manner.

The 3rd Water JPI Conference on November 17, 2021 in Mülheim/Ruhr therefore has the topic: **“FROM RESEARCH TO PRACTICE: POLLUTANTS, PATHOGENS AND ANTIMICROBIAL RESISTANCES IN THE WATER CYCLE”**. European and international experts will meet and discuss common challenges and share their recent experiences and knowledge.

At the conference, the challenges and results from the perspectives of research and practice will be presented by international speakers in **two parallel sessions** on the topics **“Chemicals”** and **“Pathogens and Antimicrobial Resistances (AMR)”**.

The conference is an important component of the transnational research and development project on the subject of water pollutants. As part of the ERA-Net Cofund “AquaticPollutants” call, eighteen projects were selected for 20M€ funding in response to the joint call on risks posed to human health and the environment by pollutants and pathogens present in the water resources.

### What participants of 3rd Water JPI Conference can expect:

- » Information about and access to new developments in Water JPI activities, projects, achievements and further planned measures in the field of water pollution
- » Link and access to European water research communities and networks
- » Support for the transfer of knowledge and best practices to European politicians
- » New technologies, innovations and projects of young start-up companies
- » Opportunities to connect and network with SMEs, utilities and the water sector
- » Networking and exchange with the German Academic Exchange Service (DAAD) in the field of water research

## TWO PARALLEL SESSIONS

### Pathogens and AMR

08:00	09:00	Registration & Coffee
<b>Introduction</b>		
09:00	09:20	Welcome notes   Helmut Löwe, German Federal Ministry of Education and Research (BMBF) Giuseppina Monacelli, Water JPI Chair Marc Buchholz, Mayor, Mülheim an der Ruhr
09:20	09:35	Presentation of AquaticPollutants Projects and Transfer Project Thomas Track, Dechema
<b>Session 1 – AMR sources and management</b>		
09:35	10:00	The contribution of WWTPs to AMR in Europe Célia M. Manaia – Universidade Católica Portuguesa
10:00	10:25	The health sector and its impact on AMR in the aquatic environment Nasreen Hassoun-kheir – Rambam Health Care Campus, Israel
10:25	10:35	Junior Water Jump – Video pitch #1
10:35	11:05	<b>Coffee &amp; Snacks</b>
<b>Session 2 – AMR risk assessment</b>		
11:05	11:35	Antibiotic Resistances in Aquatic Ecosystems Claudia Stange, Lara Stelmazyk, Johannes Ho, Andreas Tiehm, TZW: DVGW-Technologiezentrum Wasser
11:35	12:00	AMR in drinking water and risk assessment Carlos Bezuidenhout – North West University South Africa
<b>Session 3 – AMR risk assessment and pathogens</b>		
12:00	12:25	Risk management and regulation of AMR Gertjan Medema – KWR, Delft University
12:25	12:50	Pathogens in drinking water and other water resources Tarja Pitkänen – The Finnish Institute for Health and Welfare, Helsinki University
12:50	13:00	Junior Water Jump – Video pitch #2
13:00	14:15	<b>Lunch</b>
<b>Session 4 – CoVid monitoring</b>		
14:20	14:45	Advances in aquatic CoVid monitoring Rosina Gironés – Barcelona University
14:45	15:10	A wastewater – based CoVid early warning system Ismahane Remonnay / Adele Lazuka – Veolia France
15:10	15:40	<b>Coffee &amp; Cake</b>
15:40	16:00	Award Ceremony Junior Water Jump
16:00	16:30	Panel Discussion
16:30	16:40	Conclusions & Summary

### Chemicals

08:00	09:00	Registration & Coffee
<b>Introduction</b>		
09:00	09:20	Welcome notes   Helmut Löwe, German Federal Ministry of Education and Research (BMBF) Giuseppina Monacelli, Water JPI Chair Marc Buchholz, Mayor, Mülheim an der Ruhr
09:20	09:35	Presentation of AquaticPollutants Projects and Transfer Project Thomas Track, Dechema
<b>Session 1 – New challenges</b>		
09:35	10:00	PMT chemicals in the aquatic environment Prof. Dr. Thorsten Reemtsma – Helmholtz Centre for Environmental Research GmbH – UFZ
10:00	10:25	Organic pollutants in drinking water resources – a case study from Berlin Regina Gnirß – Berlin Water Utilities
10:25	10:35	Junior Water Jump – Video pitch #1
10:35	11:05	<b>Coffee &amp; Snacks</b>
<b>Session 2 – Groundwater pollution</b>		
11:05	11:35	Managed aquifer recharge – risks and benefits Jens Aamand – Geological Survey of Denmark
11:35	12:00	Long-term evaluation of MAR application for drinking water Emmanuel Van Houtte – IWVA Belgium
<b>Session 3 – Water re-use</b>		
12:00	12:25	Fate of pollutants Paola Verlicchi – University of Ferrara, Italy
12:25	12:50	Best practice examples Frank Rogalla – Aqualia Spain
12:50	13:00	Junior Water Jump – Video pitch #2
13:00	14:15	<b>Lunch</b>
<b>Session 4 – Mitigation</b>		
14:20	14:45	Policy options for regulation of chemicals of concern Christoph Schulte – German Environment Agency
14:45	15:10	How EU research and innovation is tackling contaminants of concern Avelino Gonzalez Gonzalez – European Commission, DG Research and Innovation
15:10	15:40	<b>Coffee &amp; Cake</b>
15:40	15:55	Award Ceremony Junior Water Jump
15:55	16:30	Panel Discussion
16:30	16:40	Conclusions & Summary