

The EU Sewage Sentinel System for SARS-CoV-2 (EU4S)

Wastewater-based surveillances – looking into the blue mirror

8th TOWN HALL Meeting

WEBEX Meeting

14th of November, 2022; 14:00-17:30 CET

15th of March, 2022; 09:00-12:30 CET

Chaired jointly by

Bernd Manfred GAWLIK (EC JRC)

Surpriya KUMAR (Bill & Melinda Gates Foundation)

Ahmed SAATCI (World Water Council)

DAY 1 – 14 November

- 14:00 **Opening of the 8th TOWN HALL**
Alessandra ZAMPIERI
Director for Sustainable Resources
European Commission, JRC
Italy
- 14:10 **Welcome from the Bill and Melinda Gates Foundation**
Surpriya KUMAR
Bill & Melinda Gates Foundation
United States of America
- 14:20 **Welcome from the World Water Council**
Ahmed SAATCI
World Water Council
France
- 14:30 **Wastewater-based surveillance for Public Health at the UN Environment Programme**
Riccardo ZENNARO, UN Environment Programme, Kenia
Avantika SINGH, UN Environment Programme, Kenia
- 14:40 **Current involvement of ISO in Waste-water-based epidemiology**
Koh FURATE, Urayasu Warakuen Clinic, Japan
- 14:50 **Beyond SARS-CoV-2: what waste water can teach us about human pathogens**
Emanuel WYLER, Max Delbrück Center for Molecular Medicine, Berlin, Germany
Markus LANDTHALER Max Delbrück Center for Molecular Medicine, Berlin, Germany

- 15:00 **A protocol to strengthen the interpretability and epidemiological usefulness of wastewater-based epidemiological levels for viral, vaccine-preventable diseases**
*Kerrigan McCarthy, National Institute for Communicable Diseases (NICD)
City of Johannesburg, Gauteng, South Africa*
- 15:10 **Transfer of SARS-Cov2 wastewater monitoring to the EU Eastern Partner countries**
*Alexander Zinke, Umweltbundesamt, Vienna Austria
Norbert Kreuzinger, Technical University of Vienna, Austria
Philipp Hohenblum, Alexander Zinke, Umweltbundesamt, Vienna Austria
Heike SCHMITT, National Institute for Public Health and the Environment*
- 15:20 **SARS-CoV-2 wastewater surveillance in Ukraine. First steps**
*Roman RODYNA, PATH, Ukraine
Bogdana SHCHERBAK-VERLAN, PATH, Ukraine
Daria PONOMARENKO, PATH consultant, Ukraine*
- 15:30 **WastPan goes Beyond COVID-19**
*Tarja PITKÄNEN, The Finnish Institute for Health and Welfare (THL) and
University of Helsinki, Finland*
- 15:40 **Wastewater-based epidemiology for monitoring drug use in Finland: over 10 years of experience**
Teemu GUNNAR, The Finnish Institute for Health and Welfare (THL), Finland
- 15:50 **ResistApp - a digital platform for monitoring antibiotic resistance and pathogens in wastewater**
Windi MUZIASARI, Resistomap, Finland
- 16:00 **Time to stand – time to stretch**
- 16:10 **The Dutch wastewater surveillance – beyond COVID ?**
*Willemijn LODDER, Dutch National Institute for Public Health and the Environment -RIVM,
Janneke VERHEIJEN Dutch National Institute for Public Health and the Environment -RIVM,
The Netherlands*
- 16:20 **Development of a wastewater-based surveillance evaluation framework**
*Douglas MANUEL, University of Ottawa/CoVaRR-Net, Canada
Carol BENNETT, uOttawa, Canada*
- 16:30 **Municipal and neighbourhood level wastewater surveillance and subtyping of an influenza virus outbreak**
*Robert DELLATOLLA, University of Ottawa, Canada
Elizabeth MERCIER, University of Ottawa, Canada
Shen WAN, University of Ottawa, Canada
Patrick D'AOUST University of Ottawa, Canada
Tyson GRABER, University of Ottawa, Canada*

- 16:40 **Wastewater Testing as part of Global Genomic Disease Surveillance**
Brian PLEW, Thermo Fisher Scientific, United States of America
Stephan BERENS, Thermo Fisher Scientific, United States of America
- 16:50 **Decentralized SARS-CoV-2 Testing**
Jim HARBRIDGE, Hach Company, United States of America
- 17:00 **SARS-CoV-2 variant monitoring in Swedish wastewaters**
Anna SZÉKELY, Swedish Environmental Epidemiology Center (SEEC), Sweden
- 17:10 **Wastewater-based surveillance of antibiotic resistant bacteria - the Dutch experience**
Heike SCHMITT, National Institute for Public Health and the Environment (RIVM), Netherlands
Ana Maria DE RODA HUSMAN, National Institute for Public Health and the Environment (RIVM), Netherlands
Hetty BLAAK, National Institute for Public Health and the Environment (RIVM), Netherlands
- 17:20 **The detection of a Delta variant in wastewater in the Netherlands in the midst of the Omicron wave**
Willemijn LODDER, Dutch National Institute for Public Health and the Environment -RIVM,
Auke HAVER Dutch National Institute for Public Health and the Environment -RIVM, The Netherlands
- 17:30 **End of Day I**

DAY 2 – 15 November

- 09:00 **Opening of Day 2**
Bernd Manfred GAWLIK, European Commission, JRC
Surpriya KUMAR, Bill & Melinda Gates Foundation, United States of America
Ahmed SAATCI, World Water Council, France
- 09:05 **European Commission Info Point**
Bernd Manfred GAWLIK, European Commission, JRC
Ana BURGOS, European Commission, HERA
Yoline KUIPERS, European Commission, SANTE
Michel SPONAR, European Commission, ENV
- 09:15 **New analytical tools for the detection of current and future SARS-CoV-2 variants**
Antonio MARCHINI, European Commission, JRC
Philippe CORBISIER, European Commission, JRC
- 09:25 **Guidance Development: Content of the Cookbook**
moderated by:
Stephanie Rinck-Pfeiffer, Global Water Research Coalition, Australia
Bernd Manfred GAWLIK, European Commission JRC
Dan DEERE, Water Futures Proprietary Limited, Australia
Gertjan MEDEMA, KWR, Netherlands

With contributions of all contributors
- 09:50 **Health authorities' inclusion in Turkey's nationwide wastewater-based surveillance project: Towards digitalization**
Bilge ALPASLAN KOCAMEMI, Turkish Water Institute (SUEN) - Marmara University, Turkey
- 10:00 **Experience with designing an Interlab quality assessment programme for wastewater detection of SARS-CoV-2 in a multi-laboratory wastewater surveillance**
Said RACHIDA, National Institute for Communicable Diseases (NICD) City of Johannesburg, Gauteng, South Africa
- 10:10 **Impact of COVID-19 pandemic on the prevalence of influenza A and RS viruses elucidated by wastewater-based epidemiology**
Masaaki KITAJIMA, Hokkaido University, Japan
Hiroki ANDO, Hokkaido University, Japan
- 10:20 **Development of a highly sensitive and high-throughput detection method for multiple pathogens in wastewater**
Tomohiro KUROITA, AdvanSentinel Inc., Japan
Yuka KATAYAMA, SHIONOGI & CO., LTD., Japan
- 10:30 **Rollout of a national wastewater surveillance in Germany**
Ines PEREA, Bundesministerium für Gesundheit, Berlin, Germany
Maria HELMRICH, Robert-Koch-Institut, Berlin, Germany

- 10:40 **Wastewater-based SARS-CoV-2 surveillance in Austria - updates on the national monitoring program and its impact for pandemic management**
Herbert OBERACHER, Medical University of Innsbruck, Austria
Martin STEINLECHNER, Medical University of Innsbruck, Austria
- 10:50 **Disruption and recovery of river planktonic community during and after the COVID-19 outbreak in Wuhan, China**
Yaohui BAI, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences. China
- 11:00 **Time to stand – time to stretch**
- 11:10 **Building for Sustainability: Community Impact from WBE**
Andrew ENGELI, Kando, United Kingdom
- 11:20 **From poo to policy: SARS-CoV-2 variant monitoring and insights from the Welsh National Wastewater Monitoring Programme (WEWASH)**
William PERRY, Cardiff University, United Kingdom
- 11:30 **The use of ddPCR to detect pathogens beyond SARS-CoV-2 in WBE**
Eddy VAN COLLENBURG, Bio-Rad Laboratories, Netherlands
David SPINA, Bio-Rad Laboratories, Netherlands
Abiodun BODUNRIN, Bio-Rad Laboratories, Netherlands
- 11:40 **Specialized environmental surveillance in the Netherlands: poliovirus and beyond**
Erwin DUIZER, NPL & Global Specialized Laboratory for polio, RIVM, Netherlands
- 11:50 **Wastewater-based surveillance of poliovirus**
Susana GUIX, University of Barcelona, Spain
Albert BOSCH, University of Barcelona, Spain
- 12:00 **New primer sets to detect recent human adenovirus F41 variants in wastewater: Is it linked to the new acute hepatitis?**
Mariel PEREZ-ZABALETA, KTH Royal Institute of Technology, Sweden
Zeynep CETECIOGLU, KTH Royal Institute of Technology, Sweden
Cecilia WILLIAMS, KTH Royal Institute of Technology, Sweden
- 12:10 **Combined longitudinal filtering of concentrations data of SARS CoV2 virus and variants**
Yvon MADAY, Sorbonne Université / Obépine, France
- 12:20 **Concluding remarks and closure**
Bernd Manfred GAWLIK, European Commission Joint Research Centre
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- 12:30 **End of Meeting**

CONNECTION DETAILS

can be accessed at the

EU4S DIGITAL EUROPEAN EXCHANGE PLATFORM

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