Agenda

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

Solutions and Science for Support

5th Town Hall Meeting

7 July 2021

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

Solutions and Science for Support

5th TOWN HALL Meeting

WEBEX Meeting – 7th of July, 2021; 13:30-18:30 CET

Chaired by Bernd Manfred GAWLIK (EC JRC), Ismahane REMONNAY (VEOLIA) and Andrea RUBINI (Water Europe)

Agenda of the Meeting

13:30	**Launch of the e-Exhibition** **"Solutions and Science for SARS-CoV-2 Sewage Surveillance"**

European Dimension

14:00	**Welcome and Opening of the 5th TOWN HALL** *Giovanni DE SANTI, European Commission, JRC*
14:10	**Wastewater-based surveillance as part of the EC pandemic measures** *Peter WAGNER, European Commission, SG*
14:20	**The HERA Incubator and the EC Recommendation on SARS-CoV-2 Sewer Surveillance – Status update** *Yoline KUIPERS, European Commission, DG SANTE* *Michel SPONAR, European Commission, DG ENV*
14:25	**Wastewater-based epidemiology – A critical view from the metrological perspective** *Guy VAN DEN EEDE, Robert KÖBER, European Commission, JRC*
14:35	**VEO case study SARS-COV-2: "Estimating the infection pyramid to prepare for silent epidemics"** *Marion KOOPMANS and Miranda DE GRAAF, Erasmus Medical Centre, Rotterdam, the Netherlands*
14:45	**Hunting for Mutations of SARS-CoV-2 in Wastewater - A pan-European study under the EU Sewage Sentinel System** *Susanne LACKNER, Technical University of Darmstadt, Germany*
14:55	**The UK Wastewater Surveillance Programme - An insight into variants detection and bioinformatics at the NHS Joint Biosecurity Centre** *Mathew BROWN, Joint Biosecurity Centre, a part of NHS Test & Trace, London, United Kingdom*

15:05	**SARS-CoV-2 surveillance in Switzerland: interpreting our data for public health actors and the general public** *Tamar KOHN, Swiss Federal Institute of Technology Lausanne, Switzerland*
15:15	**The Austrian wastewater-based Corona dashboard** *Hans Peter STÜGER, Austrian Agency for Health and Food Safety, Graz, Austria*
15:25	**Detection of SARS-CoV-2 in wastewater and importance of population size assessment in smaller cities: an exploratory case study from Latvia** *David FRIDMANIS, Technical University Riga, Latvia*
15:35	**Epidemiological surveillance of SARS-CoV-2 in Spain** *Pilar DOMINGO-CALAP RAMÓN Y CAJAL, Environmental and Biomedical Viruses Lab Institute for Integrative Systems Biology (I2SysBio), University of Valencia, Spain*
15:45	**COVIDETECT: Latest modelling results and genomic surveillance of SARS-CoV-2 in wastewater, Portugal** *Mónica CUNHA, Faculty of Sciences, Lisbon University, Portugal*
15:55	***Chronology of a nation-wide monitoring - The Slovenian case*** *Denis KUTNJAK, National Institute of Biology, Slovenia*
16:05	**Monitoring SARS-CoV-2 variants alterations in Nice neighborhoods by wastewater nanopore sequencing** *Pascal BARBRY, CNRS and Adèle Lazuka, VEOLIA, France*
16:15	**SPACE TO BREATHE - SPACE TO ASK**

International dimension

16:25	**SUEZ Spain solutions for population health management based on wastewater-based epidemiology** *Angel VILLANUEVA, Raquel MURIENTE, SUEZ, Spain*
16:35	**Quantitative and Qualitative Assessment from a state-wide network for SARS-CoV-2 Wastewater Monitoring** *Nichole BRINKMAN, Scott KEELY, Maitreyi NAGARKAR, Michael JAHNE, US EPA, Office of Research and Development, USA*
16:45	***Wastewater SARS Public Health Environmental REsponse (W-SPHERE) Global Data Center*** *Joan B. ROSE, Gertjan MEDEMA, Vajra ALLAN, Panagis KATSIVELLIS, Doug MORRIS, Krystin KADONSKY, Colleen C. NAUGHTON, KWR, The Netherlands*
16:55	**Current state-of-play in Nationwide Wastewater-Based COVID-19. Surveillance of Turkey: City-based live distribution maps, Variants and Real-time government dashboard for public** *Bilge ALPASLAN KOCAMEMI, Marmara University - Turkish Water Institute (SUEN), Turkey*

17:05	**Collecting, quality-ensuring and transferring SARS-CoV-2 data for decision-making by public health authorities – The Québec experience** *Peter VANROLLEGHEM, CentrEau, Canada*
17:15	**Integration of SARS-CoV-2 wastewater surveillance into public health strategies for protecting environments welcoming homeless and marginalized populations** *Dr Slim HADDAD, Direction de Santé Public, Centre intégré universitaire de santé et de services sociaux de la Capitale-Nationale, Québec City, QC, Canada*
17:25	**SPACE TO BREATHE – SPACE TO ASK**

Applications and Solutions

17:35	**Novel commercial solutions for sequencing low-concentration mixtures of synthetic SARS-CoV-2 variants in wastewater** *Terry BURKE, Sheffield University, UK*
17.45	**Molecular tools for Sewage Surveillance to Track COVID-19** *Brigitta SAUL, Subhanjan MONDAL, Nathan FEIRER, Promega Corporation*
17:55	**The use of ddPCR to Detect and Quantify SARS-Cov-2 Variants in wastewater samples using ultra-sensitive mutation detection markers** *Eddy VAN COLLENBURG, BIORAD*
18:05	**Monitoring for SARS-CoV-2 in WW** *James HARBRIDGE, Aaron ANSON, HACH*
18:15	**Wastewater – a reflection of society** *Magnus BERGLUND, SGS*
18:25	**SARS-CoV-2 RNA in urban wastewater samples to monitor the COVID-19 epidemic in Lombardy, Italy** *Sara CASTIGLIONI, Silvia SCHIAREA, Laura PELLEGRINI, Valeria PRIMACHE, Cristina GALLI, Laura BUBBA, Federica MANCINELLI, Marilisa MARINELLI, Danilo CEREDA, Emanuela AMMONI, Elena PARIANI, Ettore ZUCCATO, Sandro BINDA, Istituto Mario Negri, Milan, Italy*
18:35	**seqCOVIDBENS: Following SARS-CoV-2 variants in A Coruña, Spain,** *Margarita POZA DOMINGUEZ, Instituto de Investigación Biomédica (INIBIC) – Complexo Hospitalario Universitario (CHUAC), A Coruña, Spain*
18:45	**The way forward** *Bernd Manfred GAWLIK, European Commission, JRC, Italy* *Ismahane REMONNAY, VEOLIA* *Andrea RUBINI, Water Europe*
19:00	**End of Meeting**

List of e-Posters

CASE STUDIES

Cristina González Ruano (P-TH5-1)
National Wastewater Surveillance System for early detection of SARS-CoV-2 in Spain. VATar COVID-19 Project

Pascal Barbry (P-TH5-3)
MicroEpidemiology Strategy of SARS COV2 in Nice City by using wastewater nanopore sequencing

Herbert Oberacher (P-TH5-7)
Lessons learned from regular monitoring of 64 sampling sites in western Austria

Marcos Quintela Baluja (P-TH5-11)
FINAL TITLE PENDING

Lopez Martin, Andrea (P-TH5-12)
Wastewater-based surveillance of SARS-CoV-2 in the region of Navarra

Margarita Poza (P-TH5-31)
seqCOVIDBENS: Following SARS-CoV-2 variants in A Coruña, Spain

Tamar Kohn (P-TH5-32)
Sewage reveals SARS-CoV2 spread in Ticino (Switzerland) during the onset of the pandemic

BUSINESS SOLUTIONS

Pierre Mongeon (P-TH5-2)
The CETo application

Núria Zamorano-López (P-TH5-5)
TRACKER: an innovative tracking and predictive geographic information system (GIS) tool for environmental surveillance

Luca Fagiuoli (P-TH5-6)
Wastewater - a reflection of society

Brigitta SAUL (P-TH5-8)
Molecular tools for Sewage Surveillance to Track COVID-19

Adela Fernandez-Ayela (P-TH5-14)
Rapid on-site SARS-CoV-2 wastewater testing solutions

Aaron Hanson (P-TH5-18)
Monitoring for SARS-CoV-2 in wastewater

Sami Oikarinen (P-TH5-29)
Greenseq Ltd., Finland. QCWC – Quality Control for Coronavirus (SARS-CoV-2) monitoring in Wastewater

SCIENCE ADVANCES

Remonnay, Ismahane (P-TH5-4)
Journey to a Sustainable Future for Water Cycle-based epidemiology Surveillance : A Conversation Across the Early Detection and Early Warning for the Next Pandemics

Adela Fernandez-Ayela (P-TH5-15)
The use of metagenomics as complementary tool in the study of SARS-CoV-2 in wastewater samples

Karin Yaniv (P-TH5-16)
SARS-CoV-2 improved primers and probes and RT-qPCR detection assay for variants of concern B.1.1.7, B.1.351, P.1 and B.1.617

Gertjan Medema (P-TH5-22)
Droplet Digital RT-PCR to detect SARS-CoV-2 signature mutations of variants of concern in wastewater

Susanne Lackner (P-TH5-24)
Hunting for Mutations of SARS-CoV-2 in Wastewater - A pan-European study under the EU Sewage Sentinel System

Olivera Maksimović Carvalho Ferreira (P-TH5-3)
Screening and comparison of concentration methods for monitoring of SARS-CoV-2 in wastewater

DECISION SUPPORT

Giuseppina La Rosa (P-TH5-9)
The SARI Project - Rolling out wastewater surveillance of SARS-CoV in Italy (TITLE tbc)

Laura Guerrero (P-TH5-10)
What's beyond the network ?- Catalan Surveillance Network

Niels Nicolaï (P-TH5-13)
Data pipeline and open data model for collecting, quality-ensuring and sharing SARS-CoV-2 data and meta-data

Bilge Alpaslan Kocamemi (P-TH5-19)
Nationwide Wastewater-Based Covid-19 Surveillance of Turkey

Simona Tavazzi (P-TH5-20)
The EU Sewage Sentinel System for SARS-CoV-2

Kirsi-Maarit Lehto (P-TH5-28)
Wastewater-based surveillance tool for SARS-CoV-2, influenza and MDR bacteria – WastPan – portal

Colleen C. Naughton (P-TH5-33)
Global Data Center for Wastewater and SARS-CoV-2