

PARIS BRAIN INSTITUTE
NOVEMBER 12, 2024

INTERNATIONAL CONFERENCE

WASTEWATER-BASED SURVEILLANCE
OF INFECTIOUS DISEASES:
TOWARDS A GLOBAL PERSPECTIVE



PROGRAMME



Wastewater-based epidemiology (WBE) is a macro-epidemiological approach that aims to provide a comprehensive assessment of population exposure to infectious agents, and biological and chemical contaminants, through the analysis of wastewater. WBE experienced a remarkable upsurge on a global scale during the COVID-19 epidemic.

The combination of multidisciplinary approaches has enabled the development of new epidemiological indicators providing an excellent approximation of the dynamics of the epidemic and the nature of the SARS-CoV-2 variants. The potential of this approach is considerable: detection and monitoring of emerging infections (including respiratory viral infections, arboviruses, monkeypox...), sexually transmitted infections, antibiotic resistance among others, all indicators which would provide governments with an integrated picture of health risks and disparities in access to care.

CONFERENCE PROGRAMME

SESSION 1

9:00 – 12:30

WBE – SCIENTIFIC APPROACHES AND PROOF OF CONCEPT

9:00	Opening and welcome by Sorbonne University President
9:15	TOPIC 1: WASTEWATER-BASED EPIDEMIOLOGY FOR PATHOGENS MONITORING Chair: <ul style="list-style-type: none">Bilge ALPASLAN, Turkish Water Institute (SUEN) Speakers: <ul style="list-style-type: none">Vincent MARECHAL, GIS ObépineMilena BUSOVA, Prague UniversityNicholas GRASSLY, Imperial College LondonAlfonso ZECCONI, Milan UniversityLaïla TORO, Santé Publique France
10:15	TOPIC 2: WASTEWATER SURVEILLANCE FOR PUBLIC HEALTH Chair: <ul style="list-style-type: none">Yvon MADAY, Sorbonne University Keynote: <ul style="list-style-type: none">Ana Maria de RODA HUSMAN, RIVM
11:00	Coffee break
11:30	TOPIC 3: ADAPTING WASTEWATER SURVEILLANCE FOR DIVERSE SANITATION INFRASTRUCTURES Chair: <ul style="list-style-type: none">Maria de Lourdes AGUIAR OLIVEIRA, Fiocruz Speakers: <ul style="list-style-type: none">Renée STREET, SAMRCPierre ROQUES, Pasteur Institute of GuineaPilar HERNANDEZ, SORMASFrank AARESTRUP, Technical University of DenmarkLeila ANES-BOULAHBAL, Pasteur Institute of Algeria
12:30	Lunch Break

The conference will feature scientific presentations, highlighting the current state of knowledge and perspectives. It also proposes to consider how this approach can be integrated into national and international monitoring plans, through the interventions of European and international experts involved in the implementation of plans for monitoring and preventing future infectious epidemics. The conference will present examples of ongoing projects in several countries.

With the support and participation of



SESSION 2

14:30 – 17:30

WBE – FROM RESEARCH TO POLICY

14:30 **PANEL 1: WASTEWATER-BASED MONITORING – ETHICAL & LEGAL CONSIDERATIONS**

Chair:

- Simon PORCHER,
Panthéon Assas University

Speakers:

- Natalie RAM, University of Maryland
- Jean-Baptiste GUYONNET,
Panthéon Assas University
- Talia GLICKMAN, Canadian Water Network

15:30 Coffee break

16:00 **PANEL 2: HOW TO MAKE WASTEWATER SURVEILLANCE SUSTAINABLE IN A GLOBAL PERSPECTIVE?**

Chair:

- Antoine FLAHAULT,
Geneva Institute of Global Health

Keynote:

- Chikwe IHEKWEAZU, WHO
“Wastewater Surveillance: A Global Perspective”

Speakers:

- Ece OZCELIK, OECD
- Maria de Lourdes AGUIAR OLIVEIRA, Fiocruz
- Wolfgang PHILIPP, Hera, European Commission

17:30 **CLOSING**



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