

## Dernières actualités

Analyse de risque liée aux variants émergents de SARS-CoV-2 MAJ au 11/03/2024 ([Santé Publique France, 11/03/24](#))

New Academy project uses wastewater surveillance to identify factors related to population health ([Tampere University, 31/01/24](#))

Le ratio entre le signal de SRAS-CoV-2 dans les eaux usées et les cas cliniques pourrait être complémentaire aux mesures individuelles du dénombrement des cas cliniques et des signaux dans les eaux usées ([COVID-19 Immunity Task Force, 26/02/24](#))

Comment les égouts nous aident à surveiller les épidémies ([BBC News Afrique, 02/03/24](#))

L'optimisation et la validation d'une méthode économique de détection du SRAS-CoV-2 dans les eaux usées ([Groupe de travail sur l'immunité face à la COVID-19, 26/02/24](#))

Testing environmental water to monitor COVID-19 spread in unsheltered encampments ([ScienceDaily, 03/04/24](#))

Novel SARS-CoV-2 mutations found in floodwaters near homeless communities ([News Medical Life Sciences, 04/04/24](#))

La rougeole détectée dans les eaux usées de Bruxelles, sept cas confirmés pour l'instant ([La Libre, 16/03/24](#))

## Dernières références bibliographiques

Monitoring viruses and beta-lactam resistance genes through wastewater surveillance during a COVID-19 surge in Suwon, South Korea. *Science of The Total Environment*, 922, 171223. [Abstract >>](#)

Wastewater-based reproduction numbers and projections of COVID-19 cases in three areas in Japan, November 2021 to December 2022. *Eurosurveillance*, 29:8, 2300277. [Abstract >>](#)

Real-Time On-Site Monitoring of Viruses in Wastewater Using Nanotrap® Particles and RICCA Technologies. *Biosensors*, 14:3. [Abstract >>](#)

Occupational exposure to severe acute respiratory syndrome coronavirus-2 in wastewater and its implications in the gulf region. *Advances in Biomedical and Health Sciences*, in press. [Abstract >>](#)

SARS-CoV-2 presence in recreational seawater and evaluation of intestine permeability: experimental evidence of low impact on public health. *Frontiers in Public Health*, 12. [Abstract >>](#)

Predicting Community COVID-19 Public Health Needs Through Wastewater Based Epidemiology, Maine USA. *University of New England*. [Abstract >>](#)

Surveillance via wastewater monitoring and nasal self-collection of specimens (The SWANSS Study): A CFIR-informed qualitative study with key carceral and healthcare stakeholders. *Research Square*, 26 Feb, 2024. [Abstract >>](#)

Highly Multiplexed Reverse-Transcription Loop-Mediated Isothermal Amplification and Nanopore Sequencing (LAMPore) for Wastewater-Based Surveillance. *ACS ES&T Water*, in press. [Abstract >>](#)

Integrating Socio-Economic Vulnerability Factors Improves Neighborhood-Scale Wastewater-Based Epidemiology for Public Health Applications. *Water Research*, in press. [Abstract >>](#)

Global and genetic diversity of SARS-CoV-2 in wastewater. *Helijon*, 10:5, e27452. [Abstract >>](#)

Wastewater surveillance for COVID-19 in shelters: A creative strategy for a complex setting. *Canada Communicable Disease Report (CCDR)*, 50:1/2, 58. [Abstract >>](#)

Correlating Quantitative and Genomic SARS-CoV-2 Wastewater Data with Clinical Metrics in Metropolitan Perth, Western Australia. *Preprints*, 2024030192. [Abstract >>](#)

Wastewater-based epidemiology at the frontier of global public health. *IWA Publishing*, 21:3. [Table of contents >>](#)

The National Wastewater Surveillance System (NWSS): From inception to widespread coverage, 2020–2022, United States. *Science of The Total Environment*, in press. [Abstract >>](#)

Development of a reverse transcriptase digital droplet polymerase chain reaction-based approach for SARS-CoV-2 variant surveillance in wastewater. *Water Environment Research*, 96:3, e10999. [Abstract >>](#)

Wastewater-based epidemiological surveillance of SARS-CoV-2 new variants BA.2.86 and offspring JN.1 in south and Southeast Asia. *Journal of Travel Medicine*, in press. [Abstract >>](#)

Real-time quantitative reverse transcription polymerase chain reaction detection of SARS-CoV-2 Delta variant in Canadian wastewater. *Canada Communicable Disease Report (CCDR)*, 49:5, 213-220. [Abstract >>](#)

Polyethylenimine mediated recovery of SARS-CoV-2 and total viral RNA: Impact of aqueous conditions on behaviour and recovery. *Water Research*, 253, 121207. [Abstract >>](#)

Real-Time Epidemiology and Acute Care Need Monitoring and Forecasting for COVID-19 via Bayesian Sequential Monte Carlo-Leveraged Transmission Models. *Int J Environ Res Public Health*, 21:2, 193. [Abstract >>](#)

Near-source passive sampling for monitoring viral outbreaks within a university residential setting. *Epidemiology and Infection*, 152, e31. [Abstract >>](#)

COVID-19 in environment: Treatment, Infectivity, Monitoring, Estimation (TIME). *Current Opinion in Environmental Science & Health*, in press. [Abstract >>](#)

Developing lateral-flow devices for the fast and cheap detection of SARS-cov-2 in wastewater: a potential tool to monitoring local virus outbreaks by wastewater based epidemiology. *Journal of Microbiology and Experimentation*, 12:1, 16-22. [Abstract >>](#)

Exposure risks to SARS-CoV-2 (COVID-19) in wastewater treatment plants: a review. *Sustainable Water Resources Management*, 10:2, 85. [Abstract >>](#)

Improved SARS-CoV-2 RNA Recovery in Wastewater Matrices using a CTAB-based Extraction Method. *Journal of Virological Methods*, in press. [Abstract >>](#)

Longitudinal Sequencing and Variant Detection of SARS-CoV-2 across Southern California Wastewater. *Applied Microbiology*, 4:2, 635-649. [Abstract >>](#)

Measuring SARS-CoV-2 RNA concentrations in neighborhood wastewater. *Science of The Total Environment*, in press. [Abstract >>](#)

Application of wastewater-based epidemiology for monitoring COVID-19 in hospital and housing wastewaters. *Science of The Total Environment*, in press. [Abstract >>](#)

Wastewater-based Epidemiology for COVID-19 Surveillance: A Survey. *arXiv*, 22 Mar 2024. [Abstract >>](#)

The occurrence of SARS-CoV-2 in Tehran's municipal wastewater: performance of treatment systems and feasibility of wastewater-based epidemiology. *Journal of Environmental Health Science and Engineering*, in press. [Abstract >>](#)

Wastewater-Based Epidemiology for Early Warning and Surveillance of Covid-19. *BRICS Countries: Sustainable Water Resource Management and Pollution Control: Challenges and Opportunities*, 223-246. [Abstract >>](#)

Wastewater sequencing as a powerful tool to reveal SARS-CoV-2 variant introduction and spread in French Guiana, South America. *Science of The Total Environment*, 924, 171645. [Abstract >>](#)

Solid-liquid distribution of SARS-CoV-2 in primary effluent of a wastewater treatment plant. *MethodsX*, 12, 102645. [Abstract >>](#)

From pandemic to endemic: Divergence of COVID-19 positive-tests and hospitalization numbers from SARS-CoV-2 RNA levels in wastewater of Rochester, Minnesota. *Heliyon*, 10:6, e27974. [Abstract >>](#)

Tailored wastewater surveillance framework uncovered the epidemics of key pathogens in a Northwestern city of China. *Science of The Total Environment*, in press. [Abstract >>](#)

Estimating actual SARS-CoV-2 infections from secondary data. *Scientific Reports*, 14:1, 6732. [Abstract >>](#)

Correlative Analysis of Wastewater Trends with Clinical Cases and Hospitalizations through Five Dominant Variant Waves of COVID-19. *ACS ES&T Water*, 3:9, 2849-2862. [Abstract >>](#)

Meta-analysis of the SARS-CoV-2 positivity rate in municipal wastewater. *Environmental Geochemistry and Health*, 46:4, 119. [Abstract >>](#)

Feasibility of wastewater-based detection of emergent pandemics through a global network of airports.

*PLOS Global Public Health*, 4:3, e0003010. [Abstract >>](#)

SARS-CoV-2 wastewater surveillance in the Czech Republic: Spatial and temporal differences in SARS-CoV-2 RNA concentrations and relationship to clinical data and wastewater parameters. *Water Research X*, in press. [Abstract >>](#)

Underestimation of SARS-CoV-2 in wastewater due to single or double mutations in the N1 qPCR probe binding region. *Water Research X*, in press. [Abstract >>](#)

First Molecular Detection of SARS-CoV-2 in Sewage and Wastewater in Ghana. *BioMed Research International*, 2024, 9975781. [Abstract >>](#)

## Autres pathogènes d'intérêt :

Developing wastewater-based surveillance schemes for multiple pathogens: The WastPan project in Finland. *Science of The Total Environment*, in press. [Abstract >>](#)

Urban wastewater-based epidemiology for multi-viral pathogen surveillance in the Valencian region, Spain. *Water Research*, 255, 121463. [Abstract >>](#)

Graphene Multiplexed Sensor for Point-of-Need Viral Wastewater-Based Epidemiology. *medRxiv*, 2024.2003.2018.24304492. [Abstract >>](#)

Wastewater-Based Epidemiology for Viral Surveillance from an Endemic Perspective: Evidence and Challenges. *Viruses*, 16:3, 482. [Abstract >>](#)

Piloting wastewater-based surveillance of norovirus in England. *medRxiv*, 2024.2003.2011.24303973. [Abstract >>](#)

Environmental surveillance reveals co-circulation of distinctive lineages of enteroviruses in southwest China's border cities, 2020–2022. *Journal of Applied Microbiology*, 135:3, lxaeo60. [Abstract >>](#)

Quantification and Potential Viability of Human Noroviruses in Final Effluent from Wastewater Treatment Works in Pretoria, South Africa. *Food and Environmental Virology*, in press. [Abstract >>](#)

Assessing the nucleic acid decay of human wastewater markers and enteric viruses in estuarine waters in Sydney, Australia. *Science of The Total Environment*, 926, 171389. [Abstract >>](#)

Monitoring of enteric viruses in treated and untreated civil and livestock sewages in the Piemonte Region - Italy. *Population Medicine*, 5:Supplement. [Abstract >>](#)

Prevalence of vaccine-derived poliovirus in sewage waters in Maiduguri, Borno State, Nigeria. *Le Infezioni in Medicina*, 32:1, 90-98. [Abstract >>](#)

Evaluation of the environmental polio surveillance system—Northern Region, Ghana, 2021. *PLOS ONE*, 19:2, e0294305. [Abstract >>](#)

Case report: Zika surveillance complemented with wastewater and mosquito testing. *Ebiomedicine*, 101. [Abstract >>](#)