

Lettre de Veille Scientifique n°4  
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## Dernières actualités

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EU Wastewater Observatory for Public Health – Monthly Bulletin ([EU Wastewater Observatory for Public Health, 28/03/25](#))

Award-winning paper describes the 'state of the science' on wastewater surveillance of SARS-CoV-2 ([KWR, 04/04/25](#))

Dr. Edward Dudley: Wastewater Monitoring for Foodborne Pathogen Surveillance ([Food Safety Magazine, 08/04/25](#))

Multi-virus wastewater surveillance shows promise at smaller, site-specific scales ([ScienceDaily, 09/04/25](#))

Wastewater Surveillance for SARS-CoV-2 and Emerging Public Health Threats – Webinars series recordings ([Wastewater Surveillance for SARS-CoV-2 and Emerging Public Health Threats, 04/25](#))

Bird Flu Is Showing Up in U.S. Wastewater—Here's What That Means for Community Health ([Biobot Analytics, 11/04/25](#))

Critères d'évaluation de la pertinence d'inclure des micro-organismes à la vigie des eaux usées ([INSPO, 23/04/25](#))

African countries to protect environmental and public health through improved wastewater surveillance ([UNEP, 25/04/25](#))

Ep. 191. Dr. Edward Dudley: Wastewater Monitoring for Foodborne Pathogen Surveillance ([FoodSafety Magazine, 04/25](#))

## Dernières références bibliographiques

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### Epidémiologie des eaux usées :

O'Reilly, K.M. (2025). Analysis insights to support the use of wastewater and environmental surveillance data for infectious diseases and pandemic preparedness. *Epidemics*, 51, 100825. [Abstract >>](#)

Levy, A. (2025). Australian and New Zealand Laboratory Experience and Proposed Future Direction of Wastewater Pathogen Genomic Surveillance. *Environments*, 12:4, 114. [Abstract >>](#)

Ghosh, S. (2025). In Situ Performance of Granular Activated Carbon for Sampling Viruses and Bacteria from Wastewater: Toward Quantitative Passive Sampling for Wastewater-based Epidemiology. *Preprints*, 2025041184. [Abstract >>](#)

### SARS-CoV-2 :

de Jong, R. (2025). Correlation between SARS-CoV-2 RNA in wastewater and notified COVID-19 cases and intensive care unit admissions in North Rhine-Westphalia, Germany, 2022-2023. *Das Gesundheitswesen*, 87:5 01. [Abstract >>](#)

Lois, M. (2025). Monitoring the Emergence of SARS-CoV-2 VOCs in Wastewater and Clinical Samples—A One-Year Study in Santiago de Compostela (Spain). *Viruses*, 17:4, 489. [Abstract >>](#)

Gazu, N.T. (2025). Recent Technologies for the Determination of SARS-CoV-2 in Wastewater. *ChemistrySelect*, 10:13, e202404698. [Abstract >>](#)

Hayre, Q. (2025). Multi-scale wastewater surveillance at a Bangkok tertiary care hospital: A potential sentinel site for real-time COVID-19 surveillance at hospital and national levels. *PLOS Global Public Health*, 5:4, e0004256. [Abstract >>](#)

Bullen, J.C. (2025). Near-source wastewater surveillance of SARS-CoV-2, norovirus, influenza virus and RSV across five different sites in the UK. *PLOS Global Public Health*, 5:4, e0004397. [Abstract >>](#)

**Wang, C. (2025).** Population immunity enhances the evolution of SARS-CoV-2 in Beijing revealed by wastewater genomic surveillance. *Water Research*, in press. [Abstract >>](#)

**Bhatia, S. (2025).** Wastewater Speaks: Evaluating SARS-CoV-2 Surveillance, Sampling Methods, and Seasonal Infection Trends on a University Campus. *Microorganisms*, 13:4, 924. [Abstract >>](#)

**Maree, G. (2025).** Wastewater surveillance overcomes socio-economic limitations of laboratory-based surveillance when monitoring disease transmission: The South African experience during the COVID-19 pandemic. *PLOS ONE*, 20:2, e0311332. [Abstract >>](#)

**Priya, A.K. (2025).** Removal and inactivation of coronavirus in water and wastewater treatments plants: a critical review—global perspective. *Journal of Umm Al-Qura University for Engineering and Architecture*, in press. [Abstract >>](#)

**Mvundura, M. (2025).** Cost-effectiveness of wastewater-based environmental surveillance for SARS-CoV-2 in Blantyre, Malawi and Kathmandu, Nepal: A model-based study. *PLOS Global Public Health*, 5:4, e0004439. [Abstract >>](#)

**D'Aoust, P.M. (2025).** COVID-19 Wastewater-Based Epidemiology in Rural Communities: Comparison of Lagoon and Pumping Station Samples. *University of Ottawa*, 261 p. [Fulltext >>](#)

**Rogers, E. (2025).** Variability and Uncertainty in SARS-CoV-2 Wastewater-Based Surveillance Normalization: A Systematic Review. *University of Washington*. [Abstract >>](#)

**Nagarkar, M. (2025).** Dynamics of SARS-CoV-2 variants in southwest Ohio municipal wastewater. *Environmental Science: Water Research & Technology*, in press. [Abstract >>](#)

## **Autres pathogènes d'intérêt :**

**de Melo, T. (2025).** Optimizing RT-qPCR multiplex assays for simultaneous detection of enteric and respiratory viruses in wastewater. *Journal of Water and Health*, in press. [Abstract >>](#)

**Casado, L. (2025).** Wastewater-Based Epidemiology for Monitoring Enteric Viruses: A Case Study in Valladolid, Spain (2020-2021). *Frontiers in Microbiology*, 16, 1586478. [Abstract >>](#)

**Seo, G.E. (2025).** Sporadic detection of vaccine-derived poliovirus type 2 using next-generation sequencing in Canadian wastewater in August of 2022. *Scientific Reports*, 15:1, 12913. [Abstract >>](#)

**Chen, W. (2025).** Temporal, Spatial, and Methodological Considerations in Wastewater-Based Epidemiology for Sexually Transmitted Infections. *ACS ES&T Water*, in press. [Abstract >>](#)

**Fernandez-Sabatella, C. (2025).** Wastewater-Based Epidemiology for Analysis of Human Papillomavirus Infections in a Uruguayan Urban Area. *Food and Environmental Virology*, 17:2, 27. [Abstract >>](#)

