

## Dernières actualités

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Final report available - EU-WISH International Workshop & Consortium Meeting ([EU-WISH, 17/12/25](#))

Royaume-Uni : nouvelle détection du virus de la polio dans les eaux usées ([MesVaccins, 09/02/26](#))

Isolating vesicle-cloaked viruses in city and hospital wastewater ([Phys.org, 02/03/26](#))

## Dernières références bibliographiques

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### Epidémiologie des eaux usées :

Ahmed, T. (2026). Charting the future of wastewater-based epidemiology for vector-borne diseases: opportunities, challenges, and climate-driven needs. Environmental Science: Water Research & Technology, in press. [Abstract >>](#)

Atalla, A. G. (2025). The Impact of Metagenomic Surveillance of Wastewater-Driven Feedbacks on One Health Policy Effectiveness and Agricultural Sustainability: A Systematic Review. Preprints, 2025121751. [Abstract >>](#)

Dreifuss, D. (2025). Wastewater-Based Genomic Epidemiology. ETH Zurich. [Abstract >>](#)

Gobbo, A. (2026). Enhancing One Health Through Wastewater-Based Surveillance: Development and Validation of a Multiplex ddPCR Tool to Differentiate Human and Livestock Contributions. Water Research, 290, 125024. [Abstract >>](#)

Han, J. (2025). Chinese Urban Wastewater Surveillance System for Early Warning of Infectious Diseases: Implementation and Efficacy—January 2023–June 2025. China CDC Weekly, 7 (51), 1571-1576. [Abstract >>](#)

Korzekwa, K. (2026). Neglected Genetic Coefficients for Bacterial Diversity as a Supporting Tool for Public Health and Wastewater-Based Epidemiology. Water, 18 (1), 96. [Abstract >>](#)

Smith, E. A. (2025). Community-led standards for global wastewater-based infectious disease surveillance. Zenodo, December 1, 2025. [Abstract >>](#)

Ali, M. (2026). A review of AI/ML approaches in wastewater surveillance advancement. Science of The Total Environment, 1015, 181364. [Abstract >>](#)

Baz-Lomba, J. A. (2026). Towards the institutionalization of wastewater surveillance for public health: results from the EU-WISH mapping survey. European Journal of Public Health, in press. [Abstract >>](#)

Jong, M. d. (2026). Public health actions in response to pathogen detection in wastewater and the environment: a scoping review. Frontiers in Public Health, 13. [Abstract >>](#)

Renfro, Z. T. (2026). Flush with data: harnessing emergency department wastewater as an innovative approach for surveillance of infectious diseases. American Journal of Epidemiology, in press. [Abstract >>](#)

## SARS-CoV-2 :

Murakami, M. (2026). Insights from wastewater surveillance into testing-related underreporting and hospital-acquired SARS-CoV-2 infections. Environment International, 207, 110028. [Abstract >>](#)

Ram, J. L. (2025). Wastewater-Based Detection of a Rare SARS-CoV-2 Variant in a Hospital Setting: Implications for Individual-Level Resolution. Environments, 12 (12), 496. [Abstract >>](#)

Zachmann, K. (2025). From Crisis to Clarity: Tackling the Sampling Strategy Challenge in Airport Wastewater Surveillance During COVID-19. Water Research, in press. [Abstract >>](#)

Deák, G. (2026). A Systematic Review of Methodological Approaches to SARS-CoV-2 Wastewater Surveillance. Viruses, 18 (2), 205. [Abstract >>](#)

Ivanov, S. (2026). Summer Peak of SARS-CoV2 Virus in Wastewater from the Largest Bulgarian Cities in the 2024 Season. Preprints, 2026020832. [Abstract >>](#)

Kaller, F. (2026). Implementation of SARS-CoV-2 Wastewater Surveillance Systems in Germany—Pilot Study in the Federal State of Thuringia. Microorganisms, 14 (2), 277. [Abstract >>](#)

Mustapha, M. M. (2025). Association between SARS-CoV-2 in wastewater and COVID-19 hospitalizations in three countries, 2022–2024. Frontiers in Public Health, 13. [Abstract >>](#)

UI Hudda, N. (2026). Improving SARS-CoV-2 RNA Detection in Wastewater: Comparison of Concentration Methods and the Effect of PCR Inhibitor Removal on Detection Sensitivity. *Food and Environmental Virology*, 18 (1), 8. [Abstract >>](#)

Eder, G. (2026). Aircraft Wastewater as a Lens On Global Pathogen Spread: Matrix-Induced Challenges and Workflow Optimization for SARS-CoV-2 RNA Detection and Sequencing. *ACS ES&T Water*, in press. [Abstract >>](#)

Farmer-Diaz, K. (2026). A Practical and Scalable VIRADEL Workflow for SARS-CoV-2 Wastewater Surveillance in Resource-Limited Communities. *COVID*, 6 (3), 35. [Abstract >>](#)

Li, X. (2026). Capture sequencing demonstrates promising public health potential for post-COVID wastewater surveillance: a comparative multi-technique and spatiotemporal analysis. *Environment International*, 209, 110146. [Abstract >>](#)

### **Autres pathogènes d'intérêt :**

Bambara, S. (2025). A Review of Gastrointestinal and Respiratory Pathogen Detection in Wastewater: Implications for Early Warning and Public Health Surveillance. Preprints, 202512.2240.v1. [Abstract >>](#)

Kim, H.-J. (2025). A Correlation Study of Acute Respiratory Virus Detection in Wastewater and National Sentinel Surveillance. *JOURNAL OF BACTERIOLOGY AND VIROLOGY*, 55 (4). [Abstract >>](#)

Prosun, T. A. (2026). Wastewater-based epidemiology for SARS-CoV-2 and other respiratory viruses: A systematic review of sampling strategies and analytical workflows. *Journal of Environmental Chemical Engineering*, 14 (1), 120800. [Abstract >>](#)

Veneri, C. (2025). Tracking respiratory, enteric and vector-borne viruses through wastewater: advances from one health genomic surveillance. *INF-ACT ANNUAL MEETING 2025*. [Abstract >>](#)

Branda, F. (2025). Polio-Free, Not Risk-Free: Wastewater as Early Warning. *The Journal of Infectious Diseases*, in press. [Abstract >>](#)

Maoz Atias, T. (2026). Wastewater-based epidemiology of norovirus in Israel, 2022. *Science of The Total Environment*, 1012, 181234. [Abstract >>](#)

Wang, M. (2025). Environmental surveillance reveals enterovirus diversity in Jinan, China: detection of types D68, A71, A76, B88, A90, and C99. *Microbiology Spectrum*, in press. [Abstract >>](#)

Zhenlu, S. (2025). Epidemiological Dynamics and Early Warning of Norovirus and Rotavirus A in Yantai City in 2023-2024 based on Wastewater Surveillance. *Frontiers in Microbiology*, 16, 1761343. [Abstract >>](#)

Mancini, P. (2025). Multiplex dpcr detection of RSV and influenza viruses in urban wastewater: a proof-of-concept study. 9th National Congress of the Italian Society for Virology One Virology One Health. [Abstract >>](#)

Nkambule, S. (2025). Wastewater and environmental surveillance as an early warning system and public health tool for mpox outbreak detection and management: a scoping review. *BMC Medicine*, 23 (1), 702. [Abstract >>](#)

Veneri, C. (2025). Wastewater monitoring of dengue virus RNA during a local outbreak in central Italy, August–October 2024. 35th Congress of the European Society of Clinical Microbiology and Infectious Diseases. [Abstract >>](#)

Casado-Martín, L. (2026). A One-Year Wastewater-Based Surveillance Study of the Main Human Respiratory Viruses in a Middle-Size Spanish City During the COVID-19 Pandemic Period. *Microorganisms*, 14 (1), 151. [Abstract >>](#)

Chukwuma, G. (2025). Molecular surveillance and detection of SARS-CoV-2, polio, and non-polio enteroviruses in wastewater samples from Enugu and Ebonyi States. *Journal of Current Biomedical Research*, 5 (6, November-December), 2246-2260. [Abstract >>](#)

Grant, R. (2026). Wastewater-based surveillance of respiratory viruses in a geriatric hospital: a pilot study. *Journal of Hospital Infection*, in press. [Abstract >>](#)

Kshirsagar, A. (2026). Remotely Controlled Continuous Surveillance of Viral RNA in Wastewater Using a LoRa Network. *IEEE Internet of Things Journal*, in press, 1-1. [Abstract >>](#)

Baral, R. (2026). Assessing Virus Concentration Methods for Norovirus and SARS-CoV-2 Detection in Wastewater. *Environments*, 13 (2), 86. [Abstract >>](#)

Filoni, B. (2026). Evidence of Rat Hepatitis E Virus Circulation through Wastewater Surveillance, Central Argentina. *Emerging Infectious Disease journal*, 32 (1), 133. [Abstract >>](#)

Rožanec, J. (2026). Results of epidemiological wastewater surveillance of polioviruses in Slovenia. *Javno zdravje*, 2026 (1). [Abstract >>](#)

Serrano Prados, I. (2025). Evaluation of substances of abuse consumption and enterovirus prevalence in Barcelona's (Spain) urban wastewater and their correlation with socioeconomic variables. *Journal of Water and Health*, 24 (1), 1-16. [Abstract >>](#)

Wang, H. (2026). Genetic insights into hepatitis E virus through environmental surveillance in Europe. *One Health*, 22, 101302. [Abstract >>](#)

Yan, S. (2026). Epidemiological dynamics and early warning of norovirus and rotavirus A in Yantai City in 2023-2024 based on wastewater surveillance. *Frontiers in Microbiology*, 16. [Abstract >>](#)

Falender, R. (2026). Notes from the Field: Retrospective Analysis of Wild-Type Measles Virus in Wastewater During a Measles Outbreak—Oregon, March 24–September 22, 2024. *MMWR. Morbidity and Mortality Weekly Report*, 75 (2), 16-19. [Abstract >>](#)

Joosten, M. (2026). Local wastewater monitoring as a complementary tool in a mumps outbreak investigation in the Netherlands: a proof-of-concept study. *International Journal of Infectious Diseases*, in press. [Abstract >>](#)

Anastopoulou, Z. (2026). Comparative Investigation and Trends of Respiratory Viruses Using Wastewater-Based Epidemiological Surveillance in Patras, Greece. *Food and Environmental Virology*, 18 (1), 10. [Abstract >>](#)

Pavas, S. (2025). Wastewater-Based Epidemiology for Early Detection of Viral Outbreaks. *Genetics and Molecular Research*, 24 (4), 1-7. [Abstract >>](#)

Samantararat, S. (2026). A quantitative decision-support framework for assessing the feasibility and sensitivity of wastewater-based epidemiology of respiratory virus surveillance. *International Journal of Hygiene and Environmental Health*, 273, 114765. [Abstract >>](#)

Yang, S. (2026). In-sewer biofilm and sediment-derived suspended solids accelerate virus genome-signal decay and implications for wastewater-based epidemiology. *Water Research*, in press. [Abstract >>](#)

Wallrafen-Sam, K. (2026). Wastewater-informed agent-based modelling of hepatitis E transmission dynamics. *medRxiv*, 2026.02.14.26346311. [Abstract >>](#)

Hock, L. (2026). Integrating AMR surveillance into wastewater monitoring systems in 2025: a position on the implementation of Article 17 of the Urban Wastewater Treatment Directive (UWWTD). *Eurosurveillance*, 31 (3), 2500289. [Abstract >>](#)

Saldana, M. A. (2025). Using Wastewater-Based Epidemiology to Detect and Monitor Sexually Transmitted Infections: Chlamydia and Gonorrhea. *ACS ES&T Water*, in press. [Abstract >>](#)

Shouqair, D. (2026). Culture-Based Wastewater Surveillance for the Detection and Monitoring of Antimicrobial Resistance in Staphylococcal Species. *Veterinary Sciences*, 13 (1), 14. [Abstract >>](#)

Liepa, E. (2026). Urban Wastewater Metagenomics Reveals the Antibiotic Resistance Gene Distribution Across Latvian Municipalities. *Microorganisms*, 14 (1), 145. [Abstract >>](#)

Paul, D. (2025). Antibiotic contamination and antimicrobial resistance dynamics in the urban sewage microbiome in India. *Nature Communications*, in press. [Abstract >>](#)

Deutschlander, J. (2026). Tracking ESBL-Producing *Escherichia coli* Across Municipal Wastewater and Farm Ecosystems: A One Health Investigation. *Veterinary Sciences*, 13 (2), 138. [Abstract >>](#)

