



**Online Workshop**  
**on**  
**AMR Environmental Surveillance: Global Perspectives**

organized by

Pune Knowledge Cluster, CSIR-National Chemical Laboratory and Ashoka University

1<sup>st</sup> and 2<sup>nd</sup> December 2025: 4:00 PM to 6:00 PM IST

Environmental surveillance is emerging as a critical frontier in the fight against antimicrobial resistance (AMR). Wastewater, surface water, soil, and solid waste streams act as reservoirs and conduits for resistant pathogens and resistance genes, often reflecting hidden transmission pathways that clinical systems fail to capture. By integrating environmental data with clinical and public-health insights, countries can detect emerging threats earlier, understand community-level burdens, and tailor interventions with far greater precision. As cities grow, pollution intensifies, and climate stresses reshape ecosystems, environmental surveillance offers a powerful, data-driven lens to anticipate AMR risks and strengthen global resilience.

In India, the One Health approach is driving a new wave of environmental AMR surveillance efforts. Recognizing that resistant pathogens move seamlessly across humans, animals, food systems, and the environment, national and state programs are beginning to integrate wastewater testing, agricultural run-off monitoring, and surveillance in animal-health settings. These initiatives—spanning health departments, veterinary institutions, pollution control boards, and research bodies—are helping build a more connected picture of AMR emergence and spread. While still evolving, India's One Health ecosystem is steadily laying the foundations for coordinated data, shared protocols, and actionable insights that can inform both public-health response and environmental stewardship.

The Pune Knowledge Cluster in collaboration with Ashoka University and CSIR-National Chemical Laboratory is enabling an ecosystem to promote the development and validation of frameworks for AMR environmental surveillance. This workshop (over 2 days) is being organized as part of our outreach efforts to create awareness for R&D initiatives that are ongoing globally in the AMR surveillance space, share best practices and encourage strategic partnerships.

Target Audience:

- Researchers
- Public Health & Community Medicine Experts
- Government Representatives
- Start-ups
- Policy Makers



**Day 1: 1<sup>st</sup> December 2025**

**Agenda**

<b>Date and Time</b>	<b>Session</b>
4:00 PM – 4:10 PM IST	Opening Remarks and Context Setting
4:10 PM – 4:30 PM IST	Dr. Laasya Samhita (Assistant Professor of Biology, Ashoka University, Sonipat, India)
4:30 PM – 4:50 PM IST	Dr. Dhammika Leshan Wannigama, Assistant Prof., Department of Infectious Diseases and Infection Control, Yamagata Prefectural Central Hospital, Japan
4:50 PM – 5:10 PM IST	Dr. Frank M. Aarestrup, Professor, Head of Research Group DTU National Food Institute, Denmark
5:10 PM – 5:30 PM IST	Dr. Mahesh Dharne (Senior Principal Scientist, CSIR-National Chemical Laboratory, Pune, India)
5:30 PM – 6:00 PM IST	Open Forum for Q & A

**Day 2: 2<sup>nd</sup> December 2025**

**Agenda**

<b>Date and Time</b>	<b>Session</b>
4:00 PM – 4:10 PM IST	Opening Remarks and Context Setting
4:10 PM – 4:30 PM IST	Dr. Amishi Panwar, Senior Project Associate, Bristol University, UK
4:30 PM – 4:50 PM IST	Dr. Francis Hassard, Senior Lecturer in Public Health Microbiology, Cranfield Water Science Institute, UK
4:50 PM – 5:10 PM IST	Ms. Megan Diamond, Senior Technical Advisor, The World Health Organization
5:10 PM – 5:30 PM IST	Dr. Shraddha Karve (Assistant Professor of Research, Koita Centre for Digital Health, Ashoka University, Sonipat, India)
5:30 PM – 6:00 PM IST	Open Forum for Q & A

IST - Indian Standard Time (GMT+5:30)