

Symposium on Wastewater Technologies to Address One Health AMR

Provisional Agenda

14:00 – 14:10	Opening Remarks and Scene Setting Mr. Edward Kwakwa, Assistant Director General, Global Challenges and Partnerships Sector, World Intellectual Property Organization, WIPO Focus: AMR as a global challenge, wastewater as a neglected pathway, and WIPO's role in innovation and IP for One Health solutions.
14:10 – 14:30	Wastewater in One Health AMR Strategies Dr. Nada Hanna, Pharmaceutical and Antimicrobial Resistance (AMR) Expert, UNEP Focus: Position wastewater within global AMR action (2024 UNGA Political Declaration, Quadripartite One Health Joint Plan of Action). Stress wastewater inclusion in NAPs.
14:30 – 14:50	Technology Landscape: Technologies for Detection and Treatment of AMR in Wastewater Mr. Siddhartha Prakash, Head Global Health, WIPO Focus: Key findings from the WIPO report – detection (qPCR, biosensors, ELISA, LC-MS) and treatment (MBRs, AOPs, biochar). Highlight opportunities and IP dimensions for scaling in LMICs.
14:50 – 15:30	Case studies: Wastewater Technologies to address One Health AMR - Hospitals in Brazil, Dr. Ana Gales, Vice Director General, CEPID-ARIES Institute, Sao Paulo Focus: Brazil's ReViRAE wastewater AMR surveillance; linking AMR wastewater technologies to national health policy. - Wastewater Technologies for the removal of antimicrobials from the environment, Prof. Suraj K. Tripathy, Coordinator, Industrial Research Network, Kaliga Institute of Industrial Technology, India Focus: Showcase the effectiveness of wastewater treatment technologies for the removal of antibiotic residues
15:30 – 15:40	Q&A Session
15:40 – 16:40	Panel Discussion: Wastewater Technologies from Innovation to Implementation

	Moderated by Ms. Kekeletso Kao, Program Officer, Global Challenges Division, WIPO Panelists: • Dr. Kate Medlicott, Sanitation and Wastewater Team Leader, WHO Focus: <i>Wastewater Technologies for AMR Detection and Treatment</i> • Mr. Ramesh Govindaraj, Lead Specialist, Health, Nutrition & Population, World Bank. Focus: <i>Mainstreaming wastewater-AMR solutions in World Bank projects; opportunities for piloting in Africa/Asia.</i> • Ms. Tibale Nagwata, Zambia Environmental Agency, Focus: <i>Challenges of scaling technologies in African settings.</i> • Prof. Yongjun Zhang, Director, School of Environmental Science and Engineering, Nanjing Tech University Focus: <i>Catalytic ozonation and biofiltration processes for the removal of pharmaceuticals and antimicrobial residues in wastewater</i> • Prof. Suraj K. Tripathy, Coordinator, Industrial Research Network, Kalga Institute of Industrial Technology, India Focus: <i>IP, licensing and technology transfer for wastewater technologies</i> • Mr. Amos Heng, Technology Transfer Expert, Global Health, WIPO Focus: <i>highlight IP, licensing, and partnerships as enablers for adaptation and scale-up.</i> Guiding Panel Topics: • How can LMICs adapt and test wastewater technologies? • Opportunities embedding wastewater AMR into NAPs. • What IP/tech transfer models can accelerate equitable access? • Industry responsibility and smart procurement for reducing AMR pollution.
16:40 – 16:55	Q&A Session
16:55 – 17:10	Closing remarks Mr. Ludovic Bernaudat, Head of the Knowledge and Risk Unit, Industry and Economy Division, UNEP Ms. Amy Dietterich, Director, Global Challenges Division, WIPO Focus: Summarize technology lessons, highlight IP and partnership enablers, call for pilot projects and inclusion of wastewater in national AMR strategies.
17:10 – 18:30	Reception