

RECWET–RCEES Joint Seminar on Wastewater & Environment Surveillance for Health Risk Management

Date and Time : **November 10**, 2025 (Mon); **15:00~18:00**

Venue : Room **802**, Engineering 14th Bldg., Hongo Campus, The University of Tokyo

Program

15:00~15:05 **Opening Remarks**
Hiroyuki Katayama (Professor, RECWET, UT)

Session 1: Water Quality Management

15:05~15:35 **Water Quality Risk Assessment and Management in China**
Min Yang (Professor, RCEES, CAS)

15:35~15:50 **AI Fully Automated Water Quality Testing Laboratory:
Technology Development and Standardization**
Zhen Guo (Deputy General Manager/Senior Engineer, Lihe
Technology Co., Ltd, Hunan, China)

15:50 ~16:20 **Water Safety Management: Microbial Pollution Indicators
beyond *E. coli***
Hiroyuki Katayama (Professor, RECWET, UT)

16:20~16:30 Break

Session 2: Wastewater Surveillance

16:30~16:50 **Development of Antimicrobial Resistance in Environment and
Population: Mechanistic Insights and Trend Modeling**
Zhe Tian (Associate Professor, RCEES, CAS)

16:50~17:20 **Advancing Wastewater-Based Epidemiology: Technological
Innovation and Social Implementation in Japan**
Masaaki Kitajima (Project Professor, RECWET–iWBE, UT)

17:20~17:35 **Genomic Surveillance of Antimicrobial-Resistant *Escherichia
coli* in Wastewater**
Ryota Gomi (Project Associate Professor, RECWET–iWBE, UT)

17:35~17:50 **Potential of WBE to Reflect Antimicrobial Resistance of
Opportunistic Pathogens in the Population**
Miaomiao Liu (Project Assistant Professor, RECWET–iWBE, UT)

17:50~17:55 Closing Remarks & Group photo

RCEES: Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

RECWET: Research Center for Water Environment Technology, School of Engineering, The University of Tokyo

RECWET–iWBE: International Wastewater Based Epidemiology Laboratory (affiliated with RECWET)