

***Antibiotic Resistance in Wastewater: Future Perspectives for Monitoring and Reduction***

November 17 (Sunday), 13:00-15:30

**Aim of the workshop:**

Prevalence of antibiotic resistance is now considered as potential threats to human health in the future. Wastewater is reportedly the major source of spread of antibiotic resistant bacteria (ARB) and genes (ARG). A wastewater treatment plant, which receives a large part of wastewater in its coverage area, is a focal point of detection and control of ARB and ARG. This workshop aims to provide audience an opportunity to exchange up-to-date knowledge on antibiotic resistance in wastewater and to discuss about the next-step research of importance towards reduction of its spread into environment.

**Program:**

13:00 Opening remarks

13:05 Invited talks

*Environmental dimension of macrolide resistance genes in Taiwanese aquatic environment*

by Prof. Satoru Suzuki (Ehime University, Japan)

*The broad-spectrum occurrence of ARGs and ARG hosts in diverse environments revealed by metagenomic approach*

by Prof. Bing Li (Tsinghua University, China)

13:45 Topic talks

*Monitoring of Antibiotic Resistance at Wastewater Treatment Plants*

by Prof. Toru Watanabe (Yamagata University, Japan)

*Impacts of Antibiotic Resistance released from WWTPs in Water Environment*

by Dr. Kei Nukazawa (Miyazaki University, Japan)

*Control of Antibiotic Resistance at Wastewater Treatment Plants*

by Dr. Ryo Honda (Kanazawa University, Japan)

15:00 Wrap-up discussion – *One Health approach to tackle with ARB (tentative)*

*\* The program and talk titles are subjected to change*

**Registration:**

The workshop is open to all participants of MEWE2019.

Pre-registration is not mandatory for this workshop. Walk-in participants are welcome.

**Contact:**

Dr. Ryo Honda (Workshop Secretariat), Email: rhonda@se.kanazawa-u.ac.jp