



The University of Hong Kong  
School of Biological Sciences

**Public  
Seminar**

# Microbiomes of marine fish gut and sediments: biodiversity and ARGs

**Date: 9 September 2021**

**Time: 10:00–10:45**

**Venue: 6N-11, KBSB**



## About the speaker:

Huang Qi is a PhD candidate supervised by Prof. Kenneth Leung, Prof. Tong Zhang from department of civil engineering and Dr. Aixin Yan. Her research studies focus on the environmental microbiomes especially in the marine fish gut and sediments.



## Abstract:

Marine ecosystems, covering over 70% of Earth surface, support various organisms, play crucial roles in the global biogeochemical cycle and provide a wide variety of foods for humans. Marine fish digestive tract and sediment respectively represents the host-associated and free-living microbial community, which harbor plentiful species involving in marine biochemical activities. Marine is closely related to the human health through the provision of resources and recreation services, due to which the emerging pollutant antibiotic resistance gene (ARG) has been increasingly threatening human and animal health. Currently, microbiome in fish gut, the biodiversity and antibiotic resistome in marine sediments have not been comprehensively investigated. This talk would introduce the gut microbiomes of common marine fishes in Hong Kong, biodiversity and ARGs of the marine sediments and a community-based classifier to track the microbial flow among different environmental compartments with scientifically-sound evidences.