



Occurrence and Proliferation of Antibiotics and Antibiotic Resistance Genes

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Time: 10:00 am – 11:00 am

Venue: Room ZS970, 9/F,
Block Z, The Hong
Kong Polytechnic
University

Seminar Abstract

Accelerating antimicrobial development has a very high priority since antimicrobial resistance rapidly increases, with large numbers of annual deaths projected in 2050. The urgency to tackle this emergent societal concern is widely acknowledged. In the past 5-10 years, our research group focused on the occurrence, fate and proliferation of antibiotics and antibiotic resistance genes in the environment. For our future research direction, we take great interest on the colonization and dissemination of antibiotic resistance in human gut microbiota under the selective pressure of antibiotics and other environmental pollutants. We also pay much more attention on the interaction between the gut microbiota and host under stress of antibiotics and other environmental pollutants as well.

Biography

Professor Luo is the chair of “Environmental Pollution Process and Criteria”, the Key Laboratory of the Ministry of Education, China. She received her PhD degree from Nanjing University in 2006 and joined Nankai University the same year. She received the Award of “National Science Fund for Distinguished Young Scholars” in 2015, and the Award of the Thirteenth “Chinese Young Women Scientist Award” in 2016. Professor Luo’s research work revealed the high occurrence of antibiotics and ARGs in the Haihe River, China, and their close relationship with the over usage of antibiotics in the region. She detected the New Delhi metallo- β -lactamase (NDM-1) gene and its host bacteria named the “superbug” in wastewater treatment plant (WWTPs). Professor Luo has published more than 90 peer-reviewed papers on environmental dissemination of antimicrobial resistance. Seven of her publications have been selected in the field of ecological environment ESI highly cited papers. Professor Luo currently served in the Editorial board for *PLoS One*. Email: luoy@nankai.edu.cn.



*** ALL INTERESTED ARE WELCOME ***

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