

DEPARTMENT OF BIOMEDICAL SCIENCES
PRESENTS A SEMINAR



香港城市大學
City University of Hong Kong

Studying Virus-host Interaction in the Era of Organoids



Prof. Jie ZHOU, Jane
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DATE: 12 February 2025 (Wednesday)

TIME: 03:00 pm - 03:50 pm

VENUE: LT-12, Mr & Mrs Ho Chun Hung Lecture Theatre, Yeung Kin Man Acad Building, CityU

Biography:

Prof Jie Zhou's research interests focus on establishing organoids for studying virus-host interaction. Her team established the first adult stem cell derived respiratory organoid culture system. They develop a bipotential culture system and generate mature airway and alveolar organoids. They also establish nasal organoids with perfect efficiency. The respiratory organoid culture system enables scientists to rebuild and expand the entire human respiratory epithelium in culture plates with high efficiency and stability. The respiratory organoid technology was awarded a gold medal in the 48th International Exhibition of Inventions Geneva. In the early outbreak of COVID-19, Prof Zhou's team established the first bat intestinal organoids. These physiologically active respiratory and intestinal organoids provide optimal models for virus research, including modeling microbial infections, assessing the efficacy of antibodies and antisera, and development of antiviral agents.

