

# *Institute for Tissue Engineering and Regenerative Medicine, CUHK*

## SEMINAR

### TITLE

**Organoids and GWAS-based Discovery to Understand Viral Infections**

### SPEAKER

*Dr. Jie Zhou*

*Department of Microbiology  
The University of Hong Kong*



### DATE

**29 Jul 2020 (Wednesday)**

### TIME

**4:00 - 5:00 pm**

### VENUE

**G02, Lo Kwee-Seong Integrated Biomedical Sciences Building,  
Area 39, CUHK**

### ABSTRACT

Dr. Jie Zhou has focused on studying the pathogenesis of human viral infections. She and her team have integrated GWAS discovery and eQTL datasets to prioritize candidate genes, and have identified a number of disease important genes for human influenza. She and co-workers have established the first adult stem cell-derived human lung organoid. The long-term expandable human lung organoid can be induced to differentiate and derive airway organoids that faithfully simulate native airway epithelium to a near-physiological level. The differentiated human airway organoids become a universal and robust model to study respiratory biology and pathology. In the wake of the COVID-19 outbreak, her team demonstrated SARS-CoV-2 replication in human intestinal organoids, suggesting the human gastrointestinal tract to be an alternative viral transmission route.

~ All are Welcome ~

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