

## SCIENTIFIC PROGRAM

### SESSION LECTURE

No.24

**Pandemic Preparedness and Countermeasures  
Room: Peacock Room 1**

**Co-Chairs:  
George Fu Gao**



**Vanderson de Souza Sampaio**



**Day 3 October 21st (Monday) 09:00 – 12:00**

Time	Speaker	Title
09:00-09:30	<b>Zihe Rao</b> Tsinghua University	Pathogen and Anti-pathogen drugs
09:30-10:00	<b>Vanderson de Souza Sampaio</b> Instituto Todos pela Saúde (ITpS), Brazil	Todos pela Saúde Institute: Brazilian Initiatives for Prevention, Detection, Communication, and Response to Public Health Emergencies
10:00-10:30	<b>Minghui Ren</b> Peking University, China	Preparedness and response to global pandemics: a review from the perspective of global health governance
10:30-11:00	<b>Xifeng Wu</b> School of Public Health at Zhejiang University, China	Digital Intelligence Empowering the New Journey of Health Science
11:00-11:30	<b>Jasper Fuk-Woo Chan</b> The University of Hong Kong, China	Long COVID: what have we learned from animal models?
11:30-12:00	<b>Mizuki Yamamoto</b> The Institute of Medical Science, The University of Tokyo; China-Japan Joint Laboratory, IMCAS	Targeting Membrane Fusion of Enveloped Viruses: Mechanism and Therapeutics



### Zihe Rao

[raozh@mail.tsinghua.edu.cn](mailto:raozh@mail.tsinghua.edu.cn)

Professor in Tsinghua University, Member of the Chinese Academy of Sciences(CAS), Member of the American Academy of Arts and Sciences(AAAS), Member of the Presidium of Chinese Academy of Sciences, Honorary President of Biophysics Society of China, Founding President of China Union of Life Science Societies. He has revealed fundamental structure-function and mechanistic insights to the replication/transcription, assembly and host invasion of coronavirus, retrovirus, influenza virus, picornavirus, herpesvirus, Africa-Swine-Fever-virus and other disease-causing viruses, and uncovered how Mycobacterium tuberculosis achieves metabolite/energy transport and drug resistance. This has led to new therapeutic targets and innovative drug designs. To date, Rao has published more than 420 peer reviewed research papers, including 28 papers in Science, Nature and Cell, h-index 89. He also has 38 innovation patents.



### Xifeng Wu

[xifengw@zju.edu.cn](mailto:xifengw@zju.edu.cn)

China National Top Talent Expert; Changjiang Scholar Chair Professor; Chief scientist of the Healthy Zhejiang One Million People Cohort; Dean and “ Qiushi” Chair Professor of School of Public Health at Zhejiang University; Vice President of The Second Affiliated Hospital of Zhejiang University School of Medicine. Dr. Wu’s research spans the fields of genetics, healthcare big data, epidemiology, precision medicine, etc



### Minghui Ren

[renminghui@pku.edu.cn](mailto:renminghui@pku.edu.cn)

Professor and Director of Institute for Global Health, and Director of China Centre for Health Development Studies, Peking University, Beijing, China. His research program focuses on global health governance and diplomacy, universal health coverage and health systems, and global health development. He is particularly interested in the association of global health governance and national health governance, in the areas of the pandemic prevention, preparedness and response, climate changes and health, and other public health challenges.



### Vanderson de Souza Sampaio

[vanderson.sampaio@itps.org.br](mailto:vanderson.sampaio@itps.org.br)

Director of Operations, All for Health Institute (ITpS). He is a researcher and professor renowned for his expertise in tropical medicine, genetics, molecular biology, and bioinformatics. His work has had a profound impact on public health policies and disease control programs in the Amazon region and beyond, reassuring his lasting influence in tropical medicine.



### Jasper Fuk-Woo Chan

[jfwchan@hku.hk](mailto:jfwchan@hku.hk)

Tenured Clinical Associate Professor of the Department of Microbiology, The University of Hong Kong. His research focuses on the diagnosis, treatment, and control of emerging viral infections with pandemic potential. He has published more than 340 papers in these areas, including (co-)first/corresponding author publications in The Lancet, Science, and Nature, and has been ranked by Clarivate as a "Highly Cited Researcher" since 2021.



### Mizuki Yamamoto

[mizuyama@ims.u-tokyo.ac.jp](mailto:mizuyama@ims.u-tokyo.ac.jp)

Project Senior Assistant Professor of Research Center for Asian Infectious Diseases, The Institute of Medical Science, The University of Tokyo. His research focuses on the cell entry mechanisms of enveloped viruses. He has developed a novel method to quantify membrane fusion—a critical step in enveloped virus infections—using a split reporter protein comprising luciferase and a fluorescent protein. Importantly, this assay does not require infectious viruses. Using this innovative approach, he has identified several inhibitors of viral infections.