



**RIMD**  
Research Institute for  
Microbial Diseases  
大阪大学微生物研究所

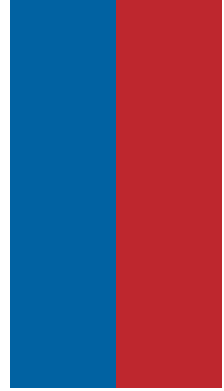


Infectious Diseases Translational Research Programme  
Yong Loo Lin School of Medicine

# OSAKA UNIVERSITY RIMD- NUS IDTRP JOINT 2024 8/1 [THU] 9:00 - 17:50 SYMPOSIUM

## Venue

Taniguchi Memorial Hall  
Integrated Life Science Building  
Research Institute for Microbial Diseases  
Osaka University



9:00 Opening remarks  
9:05 Introduction of NUS and IDTRP

## Session 1

9:15 1. Tetsuya Iida (RIMD)  
■ *Vibrio parahaemolyticus*, a bacterial pathogen discovered in Osaka University

9:40 2. Chris Sham (IDTRP)  
■ Genetic interaction landscape of *Streptococcus pneumoniae*

10:05 3. Yasuhiko Horiguchi (RIMD)  
■ The *Bsv* gene locus involved in the pathogenicity of *Burkholderia pseudomallei*

10:30 4. Gan Yunn Hwen (IDTRP)  
■ A Worrying Trend: Hypervirulence and multidrug resistance in *Klebsiella pneumoniae*

10:55-11:20 Group photo, Break

## Session 2

11:20 5. Taroh Kinoshita (RIMD)  
■ Glycosylphosphatidylinositol (GPI)-anchor biosynthesis

11:45 6. Louis Chai (IDTRP)  
■ Human variants of susceptibility to infection

12:10 7. Sho Yamasaki (RIMD)  
■ Immune responses against infection

12:35 8. Catherine Ong (IDTRP)  
■ Modulating tuberculosis immunopathology to improve patient outcomes

13:00-14:00 Lunch

## Session 3

14:00 9. Takeshi Kobayashi (RIMD)  
■ Reverse genetics approaches to the study of Rotavirus replication and pathogenesis

14:25 10. Justin Chu (IDTRP)  
■ Innovative antiviral approaches to global pandemics

14:50 11. Tatsuo Shioda (RIMD)  
■ Genotypes of dengue virus type 2

15:15 12. Sylvie Alonso (IDTRP)  
■ Understanding the molecular mechanisms that drive the fitness and virulence of enteroviruses and flaviviruses.

15:40-16:00 Break

## Session 4

16:00 13. Tokiko Watanabe (RIMD)  
■ Control of emerging zoonotic viral diseases

16:25 14. John Chen (IDTRP)  
■ Pathogenicity islands uncouple prophages from intra-host competition to promote their reproductive success during polylysogeny

16:50 15. Shota Nakamura (RIMD)  
■ Genomics, metagenomics and structural genomics in infectious disease research

17:15 16. Paul Tambyah (IDTRP)  
■ The challenge of device associated infections in prevention of antimicrobial resistance

17:40-17:50 Closing remarks



**RIMD**  
**Tetsuya Iida**

Dr. Iida graduated from the Faculty of Science, Kyoto University, in 1984 and received his Ph.D. from Osaka University in 1991. He was appointed SA Professor at the International Research Center for Infectious Diseases in RIMD after working as a Research Associate for six years and an Associate Professor for seven years. He took his current position as a Professor of RIMD in 2015.



**IDTRP**  
**Chris Sham**

Dr. Sham is an Assistant Professor in the Infectious Diseases Translational Research Programme (IDTRP) and the Department of Microbiology and Immunology at the National University of Singapore. He started his research group in 2017 and serves as Research Director of the Infectious Diseases Translational Research Programme.



**RIMD**  
**Yasuhiko Horiguchi**

Dr. Horiguchi received his Ph.D. from Osaka Prefecture University in 1987. After working at the Kitasato Institute for 3 years, he has worked for RIMD since 1990. He took his position as Postdoc in 1990, a Research Associate in 1992, and an Associate Professor in 1998. He was appointed to his current position as a Professor of RIMD in 2001.



**IDTRP**  
**Gan Yunn Hwen**

Dr. Gan graduated from Purdue University and received her Ph.D. from the University of Wisconsin-Madison. She is an Associate Professor at the National University of Singapore (NUS) since 2008. She served as Assistant Dean for Equal Opportunities and Career Development from 2019 to 2024, and has been Co-director of the NUSMed Infectious Disease Program since 2020.



**RIMD**  
**Taroh Kinoshita**

Dr. Kinoshita received Ph.D. from Osaka University in 1981. After working at the Department of Bacteriology, Osaka University Medical School, and the Department of Pathology, New York University School of Medicine, he was appointed as a Professor at RIMD in 1990. He served as a Director of RIMD from 2003 to 2007. He also served as a professor at the Immunology Frontier Research Center from 2007 to 2024.



**IDTRP**  
**Louis Chai**

Dr. Louis Chai is Consultant Infectious Diseases Physician and Associate Professor in the Department of Medicine, National University Health System, Singapore, as well as Principal Investigator, Opportunistic Infections Group, Division of Infectious Diseases, NUHS.



**RIMD**  
**Sho Yamasaki**

Dr. Yamasaki received his Ph.D. from Kyoto University in 1999. After working at Mitsubishi Chemical Corporation and Chiba University Graduate School of Medicine, he worked for the Research Center for Allergy and Immunology, RIKEN, from 2004 to 2009. He was appointed as a Professor at the Medical Institute of Bioregulation, Kyushu University, in 2009. He took his current position as a Professor of RIMD from 2017.



**IDTRP**  
**Catherine Ong**

Dr. Ong is a tenured Associate Professor and the Deputy Research Director of the Infectious Diseases Translational Research Programme (IDTRP) at the National University of Singapore. She also serves as a Senior Consultant at the National University Hospital and a Visiting Consultant at the Tuberculosis Control Unit in Singapore. Additionally, she collaborates with the Ministry of Health in Singapore and the World Health Organization (WHO).





**RIMD**  
**Takeshi Kobayashi**

Dr. Kobayashi received his Ph.D. from Osaka University in 2000. He became a Research Associate at RIMD in the same year. He spent five years as a postdoctoral fellow at Vanderbilt University, USA, before returning to Japan to work at the Institute for Virus Research in Kyoto University. He was appointed SA Associate Professor of RIMD in 2012 and has been a Professor of RIMD since 2020.



**IDTRP**  
**Justin Chu**

Dr. Chu is Assistant Dean for Academic Affairs and Associate Professor at the National University of Singapore. He is a Joint Senior Principal Investigator at the Institute of Molecular and Cell Biology (IMCB), A\*STAR, and Director of the Biosafety Level 3 Facility at NUS. He also serves as President of the Asia-Pacific Society of Medical Virology and the Singapore Society for Microbiology and Biotechnology.



**RIMD**  
**Tatsuo Shioda**

Dr. Shioda obtained his B. Sc. from the University of Tokyo in 1982 and his Ph.D. from the same institution in 1990. After working at the Institute of Medical Science in the University of Tokyo and University of California San Francisco, he was appointed as Associate Professor in 1997. He took his current position as a Professor of RIMD in 2000.



**IDTRP**  
**Sylvie Alonso**

Dr. Alonso obtained her PhD in Microbiology and Molecular Biology from the University Claude Bernard Lyon I. She joined NUS in 2004 as a Lee Kuan Yew post-doctoral Fellow, became an Assistant Professor in 2007, and was promoted to Associate Professor with tenure in 2013. She is the co-director of the Infectious Diseases Translational Research Programme (IDTRP).



**RIMD**  
**Tokiko Watanabe**

Dr. Watanabe received her PhD from Hokkaido University in 2002. She worked as a postdoctoral fellow (2002) and staff scientist (2006) at the University of Wisconsin-Madison, USA, a group leader of the ERATO KAWAOKA Infection-induced Host Responses Project (2010), and a project associate professor (2013) at the Institute of Medical Science, the University of Tokyo. She has been professor at RIMD from 2020.



**IDTRP**  
**John Chen**

Dr. Chen received his undergraduate degree from Princeton University and his Ph.D. from the Columbia University College of Physicians and Surgeons. He then completed a postdoctoral fellowship at the New York University School of Medicine before joining the National University of Singapore faculty.



**RIMD**  
**Shota Nakamura**

Dr. Nakamura obtained his Ph.D. from Osaka University in 2006. He joined RIMD as SA Assistant in Thailand-Japan research collaboratin center in 2006. He was appointed as SA Assis. Prof. at Dept. of Infection Metagenomics in 2010, and Associ. Prof. at Dept. of Genome Informatics in 2011. He was appointed SA Associate Professor of RIMD in 2016 and has been an Associate Professor of RIMD since 2023.



**IDTRP**  
**Paul Tambyah**

Dr. Tambyah is a Professor of Medicine and the Deputy Director of the Infectious Diseases Translational Research Programme (IDTRP) at the National University of Singapore. He is also a Senior Consultant Infectious Disease Physician at the National University Health System. In addition, he serves as the President of both the Asia Pacific Society of Clinical Microbiology and Infection and the International Society for Infectious Diseases.