

Day 1: 11th July 2024 (THU)

Bauduin Lecture Hall, Ryojun Auditorium 2F

Registration

08:30-09:00

Opening remarks

09:00-09:30 Takeshi NAGAYASU (President, Nagasaki University)
Kevin TAN (Dean's chair Professor, Head of Department of Microbiology and Immunology, Yong Loo Lin School of Medicine, National University of Singapore)
Atsushi KAWAKAMI (Dean, Graduate School of Biomedical Sciences, Nagasaki University)
Kazuya IKEMATSU (Dean, School of Medicine, Nagasaki University)

(Chair: Koichi IZUMIKAWA, Graduate School of Biomedical Sciences, Nagasaki University)

Keynote lecture 1

09:30-10:00 Hiroyuki MORIUCHI (National Research Center for Control and Prevention of Infectious Diseases, Nagasaki University)
"COVID-19 in Japan"

(Chair: Koichi IZUMIKAWA, Graduate School of Biomedical Sciences, Nagasaki University)

Keynote lecture 2

10:00-10:30 Laurent RENIA (A*STAR Infectious Diseases Labs, Agency for Science, Technology and Research Singapore)
"New insights in molecular mechanism of invasion of Plasmodium vivax in reticulocytes"

10:30-10:50 **Coffee Break**

(Chair: Hiroyuki MORIUCHI, National Research Center for Control and Prevention of Infectious Diseases, Nagasaki University)

Keynote lecture 3

10:50-11:20 Asuka NANBO (National Research Center for Control and Prevention of Infectious Diseases, Nagasaki University)
"Current preparation for next pandemic and BSL-4 facility in Japan"

(Asuka NANBO, National Research Center for Control and Prevention of Infectious Diseases, Nagasaki University)

Keynote lecture 4

11:20-11:50 Paul MacAry (Yong Loo Lin School of Medicine, National University of Singapore)
"Insights into serological immunity for SARS-CoV-2"

12:00-13:00 **Lunch @Pompe Hall (for guests)**

Session 1

(Chair: Akitsugu FURUMOTO, Infectious Diseases Experts Training Center, Nagasaki University Hospital)

13:00-13:20 Takahiro TAKAZONO (Graduate School of Biomedical Sciences, Nagasaki University)
"Treatment of COVID-19 in Japan"

13:20-13:40 Kenji OTA (Department of Laboratory Medicine, Nagasaki University Hospital)
"The Approach to COVID-19 through Laboratory Medicine"

13:40-14:00 Jun Siong LOW (Yong Loo Lin School of Medicine, National University of Singapore)
"Pan-coronavirus T and B cell responses"

14:00-14:20 Haruka ABE (Vietnam Research Station, Institute of Tropical Medicine, Nagasaki University)
"Characteristics of the spread of COVID-19 in Vietnam and Gabon"

14:20-14:40 **Coffee Break**

Session 2

(Chair: Koya ARIYOSHI, Institute of Tropical Medicine, Nagasaki University)

14:40-15:00 Takeshi TANAKA (Infection Control and Education Center, Nagasaki University Hospital)
“Severe Fever with Thrombocytopenia Syndrome (SFTS) virus infection:
a life-threatening infection in Asia”

15:00-15:20 Kohsuke MATSUI (School of Tropical Medicine and Global Health, Nagasaki University)
“ Clinical characteristics of Japanese spotted fever and risk factors for severe diseases”

15:20-15:40 Justin Jang Hann CHU (Yong Loo Lin School of Medicine, National University of Singapore)
“The Antiviral Frontier: Strategies for Emerging Viral Threats”

15:40-16:00 Vincent TK CHOW (Yong Loo Lin School of Medicine, National University Health System,
National University of Singapore)
“Highly Synergistic and Potent Inhibition of Mouse Coronavirus Infection by Combination
Treatment with Remdesivir and Ivermectin”

16:00-16:20 **Coffee Break**

Session 3

(Chair: Shinjiro HAMANO, Institute of Tropical Medicine, Nagasaki University)

16:20-16:40 Shinjiro HAMANO (Institute of Tropical Medicine, Nagasaki University)
“ Development of a live attenuated markerless prophylactic vaccine for leishmaniasis and
a leishmanin skin test”

16:40-17:00 Fumika MI-ICHI (Institute of Tropical Medicine, Nagasaki University)
“ Crucial roles of very long chain dihydroceramides and cholesteryl sulfate during
Entamoeba encystation”

17:00-17:20 Kevin S.W. TAN (Yong Loo Lin School of Medicine, National University of Singapore)
“ Experimental infections with two different *Blastocystis* subtypes are associated with
strikingly different microbiome features and pathobiological outcomes”

17:20-17:40 Benoît MALLERET (Yong Loo Lin School of Medicine, National University of Singapore)
“ Methylene Blue Treatment Reveals Biomarkers Associated with Cerebral Malaria in
Coatneyi-infected Macaque Model”

18:00-18:30 **Poster presentation I (Odd numbers) @1F Sensai Hall (with light refreshments)**

18:30-19:00 **Poster presentation II (Even numbers) @1F Sensai Hall**

Day 2: 12th July 2024 (FRI)

Bauduin Lecture Hall, Ryojun Auditorium 2F

Registration

08:30-09:00

(Chair: Osamu KANEKO, Institute of Tropical Medicine, Nagasaki University)

Keynote lecture 5

09:00-09:30 Kiyoshi KITA (School of Tropical Medicine and Global Health, Nagasaki University)
“Mitochondria as drug target: From parasites to virus”

(Chair: Satoshi KANEKO, Institute of Tropical Medicine, Nagasaki University)

Keynote lecture 6

09:30-10:00 Xiaoyuan (Shawn) CHEN (Yong Loo Lin School of Medicine and College of Design and Engineering, National University of Singapore)
“Cancer Theranostics”

10:00-10:30 **Coffee Break**

(Chair: Koichi IZUMIKAWA, Graduate School of Biomedical Sciences, Nagasaki University)

Keynote lecture 7

10:30-11:00 Katsunori YANAGIHARA (Graduate School of Biomedical Sciences, Nagasaki University)
“Current status and response to drug-resistant bacterial infections”

(Chair: Asuka NANBO, National Research Center for Control and Prevention of Infectious Diseases, Nagasaki University)

Keynote lecture 8

11:00-11:30 Nicholas RJ GASCOIGNE (Yong Loo Lin School of Medicine, National University of Singapore)
“Indole metabolites made by a parasite control T cell differentiation in the gut”

(Chair: Kiyoshi KITA, School of Tropical Medicine and Global Health, Nagasaki University)

Keynote lecture 9

11:30-12:00 Osamu KANEKO (Institute of Tropical Medicine, Nagasaki University)
“Cytoadhesion and rosette formation of Plasmodium knowlesi-infected red blood cells”

12:00-13:00 **Lunch Time @Pompe Hall (for guests)**

Session 4

(Chair: Katsunori YANAGIHARA, Graduate School of Biomedical Sciences, Nagasaki University)

13:00-13:20 Toshio KODAMA (Institute of Tropical Medicine, Nagasaki University)
“Host adaptation and virulence mechanisms of *Vibrio parahaemolyticus*”

13:20-13:40 Mariko NAITO (Graduate School of Biomedical Sciences, Nagasaki University)
“New findings obtained from analysis of virulence factors of periodontal pathogens.”

13:40-14:00 John CHEN (Yong Loo Lin School of Medicine, National University of Singapore)
“Pathogenicity islands uncouple prophages from intra-host competition to promote their reproductive success during polylysogeny”

14:00-14:20 Volker PATZEL (Yong Loo Lin School of Medicine, National University of Singapore)
“Non-viral vectors for gene therapy, mitochondrial gene therapy and genetic vaccination”

14:20-14:40 **Coffee Break**

Session 5

(Chair: Naoki IWANAGA, Department of Respiratory Medicine, Nagasaki University Hospital)

- 14:40-15:00 Kentaro YOSHII (Research Center for the Control and Prevention of Infectious Diseases, Nagasaki University)
“Neuropathogenesis of tick-borne encephalitis virus infection: dendritic transport of tick-borne flavivirus RNA by neuronal granule”
- 15:00-15:20 Yuki TAKAMATSU (Institute of Tropical Medicine, Nagasaki University)
“Epidemiological and ecological studies of Severe Fever with Thrombocytopenia Syndrome in our laboratory”
- 15:20-15:40 ZHANG Yongliang (Yong Loo Lin School of Medicine, National University of Singapore)
“Deficiency of IRF3 promotes a beneficial neutrophil response to severe pulmonary bacterial infection”
- 15:40-16:00 Kaiwen CHEN (Yong Loo Lin School of Medicine, National University of Singapore)
“Cell death during bacterial infection”
- 16:00-16:20 Shusaku MIZUKAMI (Institute of Tropical Medicine, Nagasaki University)
“Induction of liver-resident memory CD8⁺ T cells and protection against malaria at extraerythrocytic stage by mRNA-containing lipid nanoparticles”
- 16:20-16:50 **Coffee Break**

Session 6

(Chair: Takahiro TAKAZONO, Graduate School of Biomedical Sciences, Nagasaki University)

- 16:50-17:10 Masato TASHIRO (Graduate School of Biomedical Sciences, Nagasaki University)
“Analysis of chronic host-aspergilloma interactions using a novel mouse model”
- 17:10-17:30 Tatsuro HIRAYAMA (Graduate School of Biomedical Sciences, Nagasaki University)
“*Candida auris*: An Emerging Threat of Multidrug-Resistant Fungal Infections”
- 17:30-17:50 Shotaro IDE (Infectious Diseases Experts Training Center, Nagasaki University Hospital)
“Nontuberculous Mycobacterial Pulmonary Disease: An Overview and Insights from Nagasaki, Japan”

Closing remarks

- 17:50-18:00 Koichi IZUMIKAWA (Chair of the organizing committee, Graduate School of Biomedical Sciences, Nagasaki University)