



JICA Scientific Meeting

For

**Research on SARS-CoV-2 response to effective detection,
discovery and production of biotherapeutic against SARS-CoV-2
and other viral pathogens**

Organized by

Bamrasnaradura Infectious Diseases Institute (BIDI)

Faculty of Tropical Medicine, Mahidol University (FTM, MU)

Department of Medical Sciences, Ministry of Public Health (DMSc, MOPH)

In collaboration with

Research Institute for Microbial Diseases, Osaka University (RIMD, OU)

International Center for Biotechnology, Osaka University (ICB, OU)

Faculty of Pharmaceutical Sciences, Chulalongkorn University (FPS, CU)

Faculty of Medicine, King Mongkut's Institute of Technology, Ladkrabang (FM,
KMITL)

Wednesday 10th August 2022
Sukosol Hotel, Bangkok, Thailand

Program

- 8.30 – 8.50 Registration**
- 8.50 – 9:00 JICA Global Health and Medicine (VDO)**
- 9.00 - 9.15 Opening Remark**
- **Mr. Morita Takahiro** Chief Representative JICA Thailand office
 - **Assoc. Prof. Dr. Weerapong Phumratanaprapin** Dean; Faculty of Tropical Medicine, Mahidol University (VDO)
 - **Dr. Kitpong Sunchatawirul**, Director; Bamrasnaradura Infectious Diseases Institute, Department of Disease control, Ministry of Public Health
 - **Prof. Dr. Tatsuo Shioda**; Research Institute for Microbial Diseases (RIMD), Osaka University, Osaka, Japan
- 9.15-9.20 JICA supported projects at Faculty of Tropical Medicine 2009-2022, Reported by Assoc. Prof. Dr. Pongrama Ramasoota (FTM, MU)**
- 9.20-9.25 Group Photo**
- Session 1; SAR-CoV-2 at BIDI**
- Chair persons; Prof. Shioda, Dr. Pongrama
- 9.25-9.45 Visal Moolasart (BIDI) Abstract 1.1**
- COVID-19 in Bamrasnaradura Infectious Diseases Institute (BIDI), Pediatrician's experiences
- 9.45-10.05 Sumonmal Uttayamakul (BIDI) Abstract 1.2**
- Capacity building for SAR-CoV-2 genomic variants detection in BIDI
- 10.05-10.20 Coffee break**

Session 2: HuMAb production and characterization against SAR-CoV-2

Chair persons; Prof. Shioda, Dr. Pongrama

- 10.20 -10.40 Waranyoo Phoolcharoen (FPS, CU)** Abstract 2.1
Plant-produced SARS-Cov2 Monoclonal antibodies
- 10.40 -11.00 Panadda Dhepakson (Medical Life Sciences Institute, DMSc)** Abstract 2.2
Development of recombinant human monoclonal antibodies with pan-neutralizing activities against SARS-CoV-2 variants and Establishment of a protein- based surrogate and pseudotype virus neutralization assay for SARS-CoV-2
- 11.00 -11.20 Surachet Benjathummarak (FTM-MU) (Online)** Abstract 2.3
Generation of a single-chain fragment variable (scFv) antibody against SARS-CoV-2 RBD protein using convalescent patients-derived phage display libraries (FTM-MU)
- 11:20-11:40 Tadahiro Sasaki (RIMD, Osaka University)** Abstract 2.4
Anti-nucleocapsid antibodies may be related to the severity of COVID-19
- 11.40–12.00 Atsushi Yamanaka (RIMD, Osaka University)** Abstract 2.5
Antibody Dependent Enhancement (ADE) of SARS-CoV-2 infection
- 12:00-13:00 Lunch**

Session 3: HuMAb production and characterization against dengue virus

Chair persons; Dr. Yamanaka, Dr. Pongrama

- 13.00–13.20 Pongrama Ramasoota (FTM-MU)** Abstract 3.1
Therapeutic human monoclonal antibody against dengue virus; toward commercialization
- 13.20 -13.40 Subenya Injampa (Faculty of Medicine, KMITL)** Abstract 3.2
Characterization of Fc modification of anti-Envelope human monoclonal antibodies against dengue virus
- 13.40 -14.00 Pannamthip Pitaksajjakul (FTM-MU)** Abstract 3.3
Potential dengue therapeutic candidates based on dengue NS1 protein

Session 4: Biotherapeutics discovery and production

Chair persons; Dr. Sasaki, Dr. Pongrama

- 14.00-14.20 Charin Thawornkuno (FTM-MU)** Abstract 4.1
Egg laying hen: a promising platform for therapeutic antibody production
- 14.20 -14.40 Ryo Misaki (ICB, OU) (Online)** No Abstract
New technology for biotherapeutic production
- 14.40 -15.00 Kazuhito Fujiyama (ICB, OU) (Online)** No Abstract
Biotherapeutic production in plant
- 15.00 -15.20 Dr. Xin Liu (Sphere fluidic Co. Ltd.) (Online)** Abstract 4.2
CYTO-MINE® And Novel Bioassays Accelerating Biotherapeutics Discovery
And Development
- 15.20-15.35 Coffee break**
- 15.35 -16.00 Discussion for future research collaboration on Biologics development**
- 16.00-16.10 Conclusion and closing remarks**

Registration:

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Language: English