

WHO GISRS Bioinformatics Training Workshop

26-27 August 2019

Singapore

Venue: *Centre for Healthcare Innovation (CHI), Singapore*
18 Jalan Tan Tock Seng, Singapore 308443

PROVISIONAL AGENDA

Day 1:

09:00 - 9:30 Opening and welcome

V. Lee, Director of Communicable Diseases Division, Ministry of Health Singapore

W. Zhang, Global Influenza Programme (GIP), WHO HQ

Introduction of objectives and method of work W. Zhang, GIP, WHO HQ

Housekeeping and technical announcement

L Cui, National Influenza Centre, Singapore

S. Maurer-Stroh, Bioinformatics Institute, Singapore

09:30 -10:00 Basics of next generation sequencing and analysis (Deng/Melbourne)

10:00 -10:30 coffee break

10:30 -12:00 Hands-on NGS

12:00 -13:00 lunch break

13:00 -14:00 Sequence sharing and submission to public database GISAID (Komadina/Melbourne, Smith, Kondor/Atlanta)

14:00 -15:30 Hands-on GISAID

15:30 -16:00 coffee break

16:00 -17:00 Phylogenetic analysis of sequences including NEXTFLU (Neher/Basel)

17:00 -18:00 Hands-on Phylo

Day 2:

- 09:15 - 10:00 **Interpretation of mutations with FluSurver and antiviral resistance** (Maurer-Stroh/SIN)
- 10:00 -10:30 *coffee break*
- 10:30 - 12:00 **Hands-on FluSurver** (including antiviral resistance)
- 12:00 - 13:00 *lunch break*
- 13:00 - 14:00 **Advanced next generation sequencing analysis** (Barnes/Atlanta, Maurer-Stroh/SIN)
- 14:00-15:30 **Hands-on Advanced NGS**
- 15:30-16:00 *coffee break*
- 16:00-18:00 **Visit to National Public Health Laboratory NPHL** (Singapore NIC)

Tentative speaker/trainer (speakers with Asterisk*)

BII/A*STAR Singapore:

Sebastian Maurer-Stroh* <sebastianms@bii.a-star.edu.sg>

Dimitar Kenanov <dimitark@bii.a-star.edu.sg>

Vithiagarun Gunalan <vithiagarang@bii.a-star.edu.sg>

Raphael Tze Chuen Lee <leetc@bii.a-star.edu.sg>

Alvin Han <hanxc@bii.a-star.edu.sg>

NPHL/NCID Singapore:

Tze-Minn Mak <MAK_Tze_Minn@moh.gov.sg>

Cui Lin <CUI_Lin@moh.gov.sg>

WHO CC Melbourne:

Naomi Komadina* <Naomi.Komadina@influenzacentre.org>

Yi-Mo Deng* <Yi-Mo.Deng@influenzacentre.org>

CDC Atlanta:

Rebecca Kondor* <dqy5@cdc.gov>

Catherine Smith* <cab2@cdc.gov>

John Barnes* <fzq9@cdc.gov>

University of Basel:

Richard Neher* <richard.neher@unibas.ch>

World Health Organization

Dr Wenqing Zhang, Global Influenza Programme, WHO, Geneva, Switzerland (zhangw@who.int)

Dr Magdi Samaan, Global Influenza Programme, WHO, Geneva, Switzerland (saadsamaanm@who.int)

Dr Marie-jo Medina, WHO Office for the Western Pacific Region (medinama@who.int)

Dr Juliana Leite, WHO Regional Office for the Americas (leitejul@who.int)