

Information of Training Course

All the activities will be performed at the Research Center for Zoonosis Control, Hokkaido University.

Date	Time	Activity
Sep. 18 th (Wed)	Free time	Arrival day
Sep. 19 th (Thu)	9:00- 13:00- 13:30-	1) Instructions relating to travel expense procedure (GI-CoRE staff) 2) General Orientation 3) Practice for setting traps for mosquito sampling (Tutor/Teacher: Drs. Yuki Eshita, Yasuko Orba)
Sep. 20 th (Fri)	9:30-	1) Presentation of the situation of research activities in each country by each participant (Country Report: each 10 min) (Tutor/Teacher: Drs. Yasuko Orba, Hirofumi Sawa) 2) Practice for identification of collected mosquitoes (Tutor/Teacher: Drs. Yuki Eshita, Yasuko Orba, Hirofumi Sawa)
Sep 21 st (Sat),	Weekend	Free time
Sep 22 nd (Sun)	Weekend or Option (tick sampling)	1) Free time or Practice for ticks sampling in the field around Lake Shikotsu (https://www.japan-guide.com/e/e6736.html) (Tutor/Teacher: Drs. Stephen Baker, Dayana Baker, Shiho Torii, Yongjin Qiu, Keita Matsuno, Yasuko Oba, Ryo Nakao, Hirofumi Sawa)
Sep 23 rd (Mon) Japanese National Holiday	13:30-	1) Practice for identification of ticks (Tutor/Teacher: Drs. Yongjin Qiu, Ryo Nakao, Stephen Barker, Hirofumi Sawa)
Sep 24 th (Tue)	9:00 -	1) Isolation of RNAs from collected mosquitoes and ticks 2) RT-PCR for flavivirus (for MinION experiment) & phlebovirus (for Sanger sequencing) (Tutor/Teacher: Drs. Keita Matsuno, Yasuko Orba, Hirofumi Sawa, William Hall)
Sep 25 th (Wed)	9:00-	1) Gel electrophoresis of RT-PCR products 2) Extraction of phlebovirus RT-PCR products from agarose gel 3) Extraction of flavivirus RT-PCR products using SPRI beads 4) MinION experiment 1 using purified RT-PCR products: dA tailing (Tutor/Teacher: Drs. Kyoko Hayashida, Hirofumi Sawa, William Hall, Teaching assistant: Dr. Walter Muleya)
Sep 26 th (Thu)	9:00-	1) MinION experiments 2: whole day experiments (ligation of adapters, clean up, and so on) (Tutor/Teacher: Ms.Naoko Kawai, Drs. Kyoko Hayashida, Junya Yamagishi, Hirofumi Sawa, William Hall, Teaching assistant: Dr. Walter Muleya)
Sep 27 th (Fri)	9:00-	1) Bioinformatics practice I: Basic Linux command line (Tutor/Teacher: Drs. Gabriel Gonzalez, Junya Yamagishi, Hirofumi Sawa, William Hall) 2) Data analysis of results by MinION analysis (demonstration) (Tutor/Teacher: Drs. Gabriel Gonzalez, Junya Yamagishi, Hirofumi Sawa, William Hall, Teaching assistant: Dr. Walter Muleya)
Sep 28 th (Sat)	9:00-	1) Data analysis of results by MinION analysis by trainee (part I) (Tutor/Teacher: Drs. Junya Yamagishi, Kyoko Hayashida, William Hall)
Sep 29 th (Sun)	Weekend	Free time
Sep 30 th (Mon)	9:00-	1) Sanger sequencing of phlebovirus RT-PCR products from agarose gel (Tutor/Teacher: Ms.Yumi Saito, Drs. Yasuko Orba, Hirofumi Sawa, William Hall, Teaching assistant: Dr. Mariko Tanaka) 2) Phylogenetic analysis using data from MinION and sanger sequencing (Tutor/Teacher: Drs. Gabriel Gonzalez, Hirofumi Sawa, William Hall Teaching assistant: Dr. Mariko Tanaka)
Oct 1 st (Tue)	9:00- 18:00-	1) Data analysis of results by MinION analysis by trainee (part II) (Tutor/Teacher: Drs. Junya Yamagishi, William Hall, Teaching assistant: Dr. Mariko Tanaka) 2) Farewell Dinner
Oct 2 nd (Wed)	9:00-	1) Useful tools in bioinformatics (Tutor/Teacher: Drs. Gabriel Gonzalez, Hirofumi Sawa, William Hall Teaching assistant: Dr. Mariko Tanaka) 2) Site tour (Tutor/Teacher: Drs. Gabriel Gonzalez, Yuki Eshita, Hirofumi Sawa, William Hall, Teaching assistant: Dr. Mariko Tanaka)