

Viral Genomics and Bioinformatics (Asia), 22-26 August 2022 (Virtual)

COURSE TIMETABLE

Introduction zoom link: <https://sanger.zoom.us/j/94409718818?pwd=Uy84TE1ueGxpTnpCRExmTGMyQWR4UT09>

Thursday 18 th August 2022				
Time	Session	Content	Training team	WCS Staff
15:00-18:00 ICT 09:00-12:00 BST	Intro	Wellcome Connecting Science Welcome and Intro. Training team introductions Participant introductions Advanced Learning and Training (TtT) - Workshop	All	Zoom group session

Training team

Srikeerthana Kuchi	Kwanrutai Mairiang
David Studholme	October Sessions
Sreenu Vattipally	Dhiraj Dhotre
Urmila Kulkarni Kale	Richard Orton
Tan Le Van	To Nguyen
Sunitha Manjari Kasibhatia	Yao-Tsun Li

Wellcome Connecting Science and COG-Train Staff

Martin Aslett	Leigh Jackson
Mark Sheppard	Peter Thomas-McEwen
Alice Matimba	Melanie Sharpe
Rachel Berkson	Jorge Batista da Rocha
Karon Chappell	Laia Callico Delgado
Treasa Creavin	Kim Smith

Course observers

Kate Edington	Sam Sims
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Course zoom link: <https://sanger.zoom.us/j/97468582361?pwd=Y0Nyam9EcE4vazZVZ1Nta0h1ZGdWdz09>

Github pages link: <https://wcscourses.github.io/ViralBioinfAsia2022/>

Github repository link: <https://github.com/WCSCourses/ViralBioinfAsia2022>

Slack: ask Jorge at jorge.batista-da-rocha@wellcomeconnectingscience.org

Course Intro and Biographies: [Course Introduction and Biographies](#)

Monday 22nd August 2022					
Time	Module	Content/Title	Session structure	Training team	WCS Staff
12:00-13.30 ICT 06:00-07.30 BST	1	Introduction to Linux	Lecture + Practical	Keerthana Kuchi Jorge BDR Koi (AW), Richard, Yao-Tsun	KC MA MS AM
13:30-14:00 ICT 07:30-08.00 BST	BREAK				
14:00-15.30 ICT 08:00-09:30 BST	2	Linux text processing	Lecture + Practical - if time - breakout room	Keerthana Kuchi Jorge BDR; Koi (AW), Richard, Yao-Tsun	KC MA MS
15:30-15:45 ICT 09:30-09.45 BST	BREAK				
15:45-16:30 ICT 09:45-10:30 BST	S1	COVID in Vietnam	Seminar	Tan Le Van	AM
16:30-17:30 ICT 10:30-11:30 BST	3	Introduction to NGS sequencing	Pre-recorded lecture Live Q&A	David Studholme Jorge BDR	MA MS
17:30-18:30 ICT 11:30-12:30 BST	MEAL BREAK				
18:30-19:45 ICT 12:30-13:45 BST	4	NGS file formats and data & QC	Practical <i>Breakout rooms</i>	David Studholme Jorge BDR, Koi (AW), Hong, Richard	KC MA MS
19:45-20:00 ICT 13:45-14:00 BST		<i>Day wrap-up - survey</i>			

Tuesday 23rd August 2022					
Time	Module	Content/Title	Session structure	Training team	WCS Staff
12:00-13.30 ICT 06:00-07.30 BST	5	Introduction to BASH scripting	Lecture + Practical <i>Breakout rooms if time</i>	Kwanrutai Mairiang David S, Keerthana, Yao-Tsun, To, Koi	KC MA,JDBR
13:30-14:00 ICT 07:30-08.00 BST	BREAK				
14:00-15.30 ICT 08:00-09:30 BST	5	Bash scripting (Cont...) (answers at 15h10)	Practical <i>Breakout rooms</i>	Kwanrutai Mairiang Sreenu, To, Keerthana, Koi (AW), Yao-Tsun	KC MA, JDBR
15:30-15:45 ICT 09:30-09.45 BST	BREAK				
15:45-16:30 ICT 09:45-10:30 BST	S2	Sequencing to identify pathogens associated with brain infections in India	Seminar	Dr.Chitra Pattabiraman	AM
16:30-17:30 ICT 10:30-11:30 BST	6	Reference alignment	Practical intro <i>Breakout rooms</i>	October Sessions David S, Datta, Sreenu, To, Hong, Richard	KC MA,JDBR
17:30-18:30 ICT 11:30-12:30 BST	MEAL BREAK				
18:30-19:45 ICT 12:30-13:45 BST	7	Coverage plots & stats	Practical intro <i>Breakout rooms</i>	David Studholme To, Hong, Sreenu, Richard	KC MA,JDBR
19:45-20:00 ICT 13:45-14:00 BST		<i>Day wrap-up - survey</i>			

Wednesday 24th August 2022

Time	Module	Content/Title	Session structure	Training team	WCS Staff
12:00-13:30 ICT 06:00-07.30 BST	8	Consensus & variant calling	Lecture + Practical <i>Breakout rooms</i>	October Sessions David S, Datta,Richard,Sreenu,	KC MA,JDBR
13:30-14:00 ICT 07:30-08.00 BST	BREAK				
14:00-15:30 ICT 08:00-09:30 BST	9	De Novo assembly	Lecture + Practical <i>Breakout rooms</i>	Sreenu Vattipally To, Datta, David S, Richard	KC MA,JDBR
15:30-15:45 ICT 09:30-09.45 BST	BREAK				
15:45-16:30 ICT 09:45-10:30 BST	S3	Metagenomics (pathogen discovery +)	Seminar	Nguyen To Anh	AM
16:30-17:30 ICT 10:30-11:30 BST	10	Metagenomics	Practical <i>Breakout rooms</i>	Dhiraj Dhotre, Datta, Sanket, Sreenu, David	KC MA,JDBR
17:30-18:30 ICT 11:30-12:30 BST	MEAL BREAK				
18:30-19:45 ICT 12:30-13:45 BST	10	Metagenomics	Practical <i>Breakout rooms</i>	Dhiraj Dhotre Sreenu, Datta, David,	KC MA,JDBR
19:45-20:00 ICT 13:45-14:00 BST		<i>Day wrap-up - survey</i>			

Thursday 25 th August 2022					
Time	Module	Content/Title	Session structure	Training team	WCS Staff
12:00-13.30 ICT 06:00-07.30 BST	11	Introduction to MSA	Lecture + Practical <i>Breakout rooms</i>	Urmila Kulkarni Kale , Datta, Sunitha, Sanket, Yao-Tsun	KC MA,JDBR,
13:30-14:00 ICT 07:30-08.00 BST	BREAK				
14:00-15.30 ICT 08:00-09:30 BST	11	Introduction to phylogenetic methods	Lecture + Practical <i>Breakout rooms</i>	Urmila Kulkarni Kale Datta, Sunitha, Sanket, Yao-Tsun	KC MA,JDBR
15:30-15:45 ICT 09:30-09.45 BST	BREAK				
15:45-16:30 ICT 09:45-10:30 BST	11	Typing of the viruses	Lecture + Practical <i>Breakout rooms</i>	Urmila Kulkarni Kale David S, Datta, Sunitha, Hong,Sanket	KC,JDBR MA
16:30-17:30 ICT 10:30-11:30 BST	11	Tree building	Lecture + Practical <i>Breakout rooms</i>	Urmila Kulkarni Kale David S, Datta, Sunitha, Hong, Sanket	KC MA,JDBR
17:30-18:30 ICT 11:30-12:30 BST	MEAL BREAK				
18:30-19:45 ICT 12:30-13:45 BST	ALT	Advanced Learning and Training (TtT)	Workshop <i>Breakout rooms</i>	Alice Matimba Jorge, Lia	KC
19:45-20:00 ICT 13:45-14:00 BST		<i>Day wrap-up - survey</i>			

Friday 26th August 2022					
Time	Module	Content/Title	Session structure	Training team	WCS Staff
12:00-13:30 ICT 06:00-07.30 BST	12	SARS-CoV-2-Ref Assembly Amplicons, MinION/Illumina ARTIC Conda env (minion) and (Illumina)	Lecture + Practical <i>Breakout rooms</i>	Richard Orton Sreenu, Keerthana, Yao-Tsun	KC MA,JDBR, AM
13:30-14:00 ICT 07:30-08.00 BST	BREAK				
14:00-15:30 ICT 08:00-09:30 BST	12	SARS-CoV-2-Mutations Lineages, Pangolin Consensus Mutations, Spear	Practical <i>Breakout rooms</i>	Richard Orton Sreenu, Hong, Urmila, Yao-Tsun	KC MA,JDBR
15:30-15:45 ICT 09:30-09.45 BST	BREAK				
15:45-16:30 ICT 09:45-10:30 BST	S5	ARCTIC Protocol (moved to 16h00 ICT)	Seminar	Josh Quick	MA,JDBR, AM
16:30-17:30 ICT 10:30-11:30 BST	12	SARS-CoV-2 Phylo Civet/Usher	Practical <i>Breakout rooms</i>	Richard Orton David S, Sreenu, Urmila, Kate	MA,JDBR, AM
17:30-18:30 ICT 11:30-12:30 BST	MEAL BREAK				
18:30-19:15 ICT 12:30-13:15 BST	12	Group – SARS-CoV2 Practical	Practical <i>Breakout rooms</i>	Richard Orton David S, Sreenu, Hong	MA,JDBR, AM
19:15-19:45 ICT 13:15-13:45 BST	QA	Course Questions and Answers (Photo, Post Course Survey)		All	MA,JDBR, AM
19:45-20:00 ICT 13:45-14:00 BST		Course wrap-up - survey		All	

