

Viral Genomics and Bioinformatics (Latin America and the Caribbean LAC), 10-14 October OCT (Virtual)

COURSE TIMETABLE

Introduction zoom link: <https://sanger.zoom.us/j/97454713221?pwd=ZnlKbjFOemtUTnhpTVZybE9nOHp1dz09>

Thursday 6 th October 2022				
Time	Session	Content	Training team	WCS Staff
10h00-13h00 ART 14h00-17h00 UK	Intro	Wellcome Connecting Science Welcome and Intro. Training team introductions Participant introductions Advanced Learning and Training (TtT) - Workshop	All	Zoom group session

Training team

Carolina Torres	Richard Orton
Josefina Campos	Marta Giovanetti
Srikeerthana Kuchi	Pablo Ivan Ramos
Sreenu Vattipally	Dolores Blanco Fernandez
Andres Culasso	Laise Eduarda Paixão de Moraes
Sol Hain	Tomas Poklepovich
Ezequiel Tuduri (Technical assistant)	

Wellcome Connecting Science and COG-Train Staff

Martin Aslett	Leigh Jackson
Alice Matimba	Melanie Sharpe
Rachel Berkson	Jorge Batista da Rocha
Laia Delgado Callico	Peter Thomas-McEwen
Treasa Creavin	Kim Smith
Liã Barbara Arruda	Anna Markov

Course observers

Hugo Tavares Kate Edington Sam Sims

Course zoom link: <https://sanger.zoom.us/j/99290575625?pwd=OE5acytmQ1RmRTRBVTV3LzZyQVFCQT09>

Github pages link: <https://wcscourses.github.io/ViralBioinfLAC2022/>

Github repository link: <https://github.com/WCSCourses/ViralBioinfLAC2022>

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

Course Intro and Biographies: <https://drive.google.com/drive/folders/1F-lkNN8XOOZbaEs7JwFav6hrYhXF7nL-?usp=sharing>

Monday 10th October 2022					
Time	Module	Content/Title	Session structure	Training team	WCS Staff
09:00-10:30 ART 13:00-14:30 BST	1	Introduction to Linux	Lecture + Practical	Keerthana Kuchi RO, SH, TP, AC, SV, DB	JBDR, MS, LBA
10:30-11:00 ART 14:30-15:00 BST	BREAK				
11:00-12:30 ART 15:00-16:30 BST	2	Linux text processing	Lecture + Practical - if time - breakout room	Keerthana Kuchi SV, SH, TP, AC, DB	JBDR, MS, LBA
12:30-12:45 ART 16:30-16:45 BST	BREAK				
12:45-13:30 ART 16h45-17:30 BST	S1	Early ZIKV genomes lend support to the patterns of viral spread from Northeast Brazil to the Americas	Seminar	Ricardo Khouri	JDBR, PR, LBA
13:30-14:30 ART 17:30-18:30 BST	3	Introduction to NGS sequencing	Pre-recorded lecture Live Q&A	Marta Giovannetti	JBDR, MS, LBA
14:30-15:30 ART 18:30-19:30 BST	MEAL BREAK				
15:30-16:45 ART 19:30-20:45 BST	4	NGS file formats and data & QC	Practical <i>Breakout rooms</i>	Josefina +Pablo SH, TP, DB, RO	JBDR, MS
16:45-17:00 ART 20:45-21h00 BST		<i>Day wrap-up -</i> https://www.surveymonkey.co.uk/r/T2H86FJ			JBDR, MS

Tuesday 11th October 2022					
Time	Module	Content/Title	Session structure	Training team	WCS Staff
09:00-10:30 ART 13:00-14:30 BST	5	Introduction to BASH scripting	Lecture + Practical <i>Breakout rooms if time</i>	Josefina Campos SV, Andres, SH, TP, SK	JBDR, LBA
10:30-11:00 ART 14:30-15:00 BST	BREAK				
11:00-12:30 ART 15:00-16:30 BST	5	Bash scripting (Cont...)	Practical <i>Breakout rooms</i>	Josefina Campos SH, TP, SK, AC	JBDR, LBA
12:30-12:45 ART 16:30-16:45 BST	BREAK				
12:45-13:30 ART 16h45-17:30 BST	S2	Data sharing, data curation and the PHA4GE SARS-CoV-2 contextual data specification	Seminar	Dr Emma Griffiths	JBDR, LBA
13:30-14:30 ART 17:30-18:30 BST	6	Reference alignment	Practical intro <i>Breakout rooms</i>	Josefina + Pablo SH, TP, DB, RO	LBA
14:30-15:30 ART 18:30-19:30 BST	MEAL BREAK				
15:30-16:45 ART 19:30-20:45 BST	7	Coverage plots & stats	Practical intro <i>Breakout rooms</i>	Josefina Campos Tomas, SH, DB, AC	LBA, JBDR
16:45-17:00 ART 20:45-21h00 BST		<i>Day wrap-up -</i> https://www.surveymonkey.co.uk/r/T2H86FJ			LBA, JBDR

Wednesday 12th October 2022					
Time	Module	Content/Title	Session structure	Training team	WCS Staff
09:00-10:30 ART 13:00-14:30 BST	8	Consensus & variant calling	Lecture + Practical <i>Breakout rooms</i>	Josefina + Pablo SH, TP, RO	JBDR, LBA
10:30-11:00 ART 14:30-15:00 BST	BREAK				
11:00-12:30 ART 15:00-16:30 BST	9	De Novo assembly	Lecture + Practical <i>Breakout rooms</i>	Sreenu Vattipally SH, TP, RO, DB	JBDR, LBA
12:30-12:45 ART 16:30-16:45 BST	BREAK				
12:45-13:30 ART 16h45-17:30 BST	S3	Surveillance and genomic analysis of SARS-CoV-2 in Argentina	Seminar	Carolina Torres Josefina Campos	IM,JBDR
13:30-14:30 ART 17:30-18:30 BST	10	Metagenomics	Practical <i>Breakout rooms</i>	Sreenu Vattipally RO, DB, SH, TP	IM, LBA
14:30-15:30 ART 18:30-19:30 BST	MEAL BREAK				
15:30-16:45 ART 19:30-20:45 BST	10	Metagenomics	Practical <i>Breakout rooms</i>	Sreenu Vattipally RO, SH, TP, DB	IM,JBDR
16:45-17:00 ART 20:45-21h00 BST		<i>Day wrap-up -</i> https://www.surveymonkey.co.uk/r/T2H86EJ			IM,JBDR, LBA

Thursday 13th October 2022					
Time	Module	Content/Title	Session structure	Training team	WCS Staff
09:00-10:30 ART 13:00-14:30 BST	11	Introduction to MSA	Lecture + Practical <i>Breakout rooms</i>	Carolina Torres + Marta G DB, AC, SH, TP	JBDR, LBA
10:30-11:00 ART 14:30-15:00 BST	BREAK				
11:00-12:30 ART 15:00-16:30 BST	11	Introduction to phylogenetic methods - tree building	Lecture + Practical <i>Breakout rooms</i>	Carolina Torres + Marta G DB, AC, SH, TP	JBDR, LBA
12:30-12:45 ART 16:30-16:45 BST	BREAK				
12:45-13:30 ART 16h45-17:30 BST	11	Tree building - intro phylodynamics	Lecture + Practical <i>Breakout rooms</i>	Marta G + Carolina Torres DB, AC, SH, TP	JBDR, LBA
13:30-14:30 ART 17:30-18:30 BST	11	Typing of the viruses	Lecture + Practical <i>Breakout rooms</i>	Marta G + Carolina Torres DB, AC, , SH, TP	LBA JBDR
14:30-15:30 ART 18:30-19:30 BST	MEAL BREAK				
15:30-16:45 ART 19:30-20:45 BST	ALT	Advanced Learning and Training (TtT) Part 2	Workshop <i>Breakout rooms</i>	Alice Matimba Jorge, Lia	MD, IM, LBA
16:45-17:00 ART 20:45-21h00 BST		<i>Day wrap-up -</i> https://www.surveymonkey.co.uk/r/T2H86FJ			LBA JBDR

Friday 14th October 2022					
Time	Module	Content/Title	Session structure	Training team	WCS Staff
09:00-10:30 ART 13:00-14:30 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, SK, SH, TP, LDM	JBDR, LBA
10:30-11:00 ART 14:30-15:00 BST	BREAK				
11:00-12:30 ART 15:00-16:30 BST	12	SARS-CoV-2-Mutations and Lineages: Pangolin and SPEAR	Lecture + Practical <i>Breakout rooms</i>	Richard Orton Sreenu, SK, Yao-Tsun, SH, TP	JBDR, LBA
12:30-12:45 ART 16:30-16:45 BST	BREAK				
12:45-13:30 ART 16h45-17:30 BST	S5	ARTIC	Seminar	Josh Quick	JBDR, LBA
13:30-14:30 ART 17:30-18:30 BST	12	SARS-CoV-2 Phylo: Civet/Usher	Lecture + Practical <i>Breakout rooms</i>	Richard Orton Sreenu, SH, TP, SK	JBDR, LBA
14:30-15:30 ART 18:30-19:30 BST	MEAL BREAK				
15:30-16:15 ART 19:30-20:15 BST	12	Group – SARS-CoV2 Practical	Practical <i>Breakout rooms</i>	Richard Orton Sreenu, SH, TP, SK	JBDR, LBA
16:15-16:45 ART 20:15-20:45 BST	QA	Course Questions and Answers (Photo, Post Course Survey)		All	JBDR, LBA
16:45-17:00 ART 20:45-21h00 BST		Course wrap-up - <i>Daily survey</i>		All	JBDR, LBA

		https://www.surveymonkey.co.uk/r/T2H86FJ Post course survey -			
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