

Viral Genomics and Bioinformatics, 24 - 28 June 2024, University of Glasgow, Garscube Campus

	Monday 6/24/24	Tuesday 6/25/24	Wednesday 6/26/24	Thursday 6/27/24	Friday 6/28/24
9:00	Registration (0900-0930) Tea & Coffee in the Barn				
9:30	Course and Instructor Intro Participants introduction	Read cleaning alignment Derek Wright	Bash - Advanced Linux Conditions & Loops	De novo assembly	K-mer based metagenomics
10:00	2min talk by each participant				Gene ontology in R Pathway analysis in R
10:30	Overview of viral bioinformatic Joseph Hughes (1015-1045)	(0930-1100)	Sreenu Vattipally (0930-1100)	Sreenu Vattipally (0930-1100)	Richard Orton (0930-1100)
11:00	Login, Setup & Basic Linux Srikeerthana Kuchi	Break (1100-1130)	Break (1100-1130)	Break (1100-1130)	Srikeerthana Kuchi (0930-1100)
11:30		Reference alignment & Statistics	Script Practice Session	De novo assembly quality assessment	Break (1100-1130)
12:00	(1045-1230)	Richard Orton			Build a pipeline: Ref alignment or denovo or metagenomics
12:30	Lunch (1230-1330)	(1130-1300)	Sreenu Vattipally (1130-1300)	Joseph Hughes (1130-1300)	Build a pipeline: Transcriptomics
13:00		Lunch (1300-1400)	Lunch (1300-1400)	Lunch (1300-1400)	All Instructors
13:30	Login, Setup & Basic Linux Srikeerthana Kuchi				Lunch (1300-1400)
14:00	(1330-1430)	Consensus & Variant Calling	Introduction to MSA	Intro. to plotting in R	Build a pipeline continued
14:30	NGS data & QC	Richard Orton	Practical MSA		All Instructors
15:00	Derek Wright (1430-1530)	(1400-1530)	David Robertson (1400-1530)	Joseph Hughes (1400-1530)	What next on your bioinformatic journey?
15:30	Break (1530-1600)	Break (1530-1600)	Break (1530-1600)	Break (1530-1600)	Tea & Coffee (1530-1600)
16:00	NGS technologies Kathy S. & Will R. (1600-1630)	Bash - File editing & Text processing	Intro. to phylogenetic methods	Metagenomics virus discovery	Goodbyes
16:30	Sequencing facility tour Danny Mair (1630-1700)		Tree building practicals visualization and annotation	Alignment for transcriptomics	
17:00	Social event	Sreenu Vattipally (1600-1730)	David Robertson (1600-1730)	Joseph Hughes (1600-1730)	Differential expression analysis in R
17:30	BBQ & Poster presentation by CVR staff and students		Social event Course dinner	Quan Gu (1600-1730)	
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