Genomics and Clinical Virology
2-7 March 2025, Wellcome Genome Campus, Hinxton

wellcome connecting science

Pre-course available on Learning Management System
Bioinformatics 1: Introduction to Linux for Biologists (2 hours)

Time	Sunday 2 March	Monday 3 March	Tuesday 4 March	Wednesday 5 March	Thursday 6 March	Friday 7 March
----08:00----						
----09:00----		**Briefing** B220	**Briefing** B220	**Bioinformatics 3: Reference Mapping and Coverage** *Richard Orton* Games Room	**Briefing** B220	
----10:00----		**Lab 1: RNA Fragmentation, first and second strand synthesis** *Ana Filipe and Kathy Smollett* B220	**Lab 5: Preparation for sequence capture** *Ana Filipe and Kathy Smollett* B220		**Lab 8: MinION practical** *Lauren Lansdowne and Dominika Stepniak* B220	**SEMINAR 2: The application of genomics in the clinical management and public health surveillance of HCV and HIV** *Tamyo Mbisa* Games Room
		Break during incubation DiNA Cafe	Break during incubation DiNA Cafe	Break Lobby Games room		**Group project 1: Introduction & Data** *Sreenu Vattipally and Tamyo Mbisa* Games Room
----11:00----		**Lab 2: Ligation and bead clean-up** *Ana Filipe and Kathy Smollett* B220	**Lab 6: Library pooling and capture reaction** *Ana Filipe and Kathy Smollett* B220	**Bioinformatics 4: De novo assembly** *David Bibby* Games Room		**Group projects 2: development** *Sreenu Vattipally and Tamyo Mbisa* Games Room
----12:00----	REGISTRATION & LUNCH Hinxton Hall (HH) Restaurant	LUNCH Lobby C303	LUNCH Lobby C302	LUNCH HH Restaurant	LUNCH HH Restaurant	LUNCH - HH Restaurant
----13:00----	**WCS Introduction Participant introductions Training team introductions** Library room (Hybrid Zoom)	**Lab 3: PCR and clean up** *Ana Filipe and Kathy Smollett* B220	**Lab 7: Clean up and post-capture ligation-mediated PCR** *Ana Filipe and Kathy Smollett* B220	**Bioinformatics 5: Consensus and variant calling** *David Bibby* Games Room	**Bioinformatics 7: Interpretation of MinION data** *Nick Loman* Games Room	**Group projects 2: preparation** *Sreenu Vattipally and Tamyo Mbisa* Games Room
----14:00----						
----15:00----	Break	Break DiNA Cafe	Break DiNA Cafe	Break Lobby Games room	Break Lobby Games room	
----16:00----	**Lecture 1: Applications of NGS** *Emma Thomson* Library room	**Lab 4: Pool quality control and dilution** *Ana Filipe and Kathy Smollett* B220	**Bioinformatics 2: Login, Linux, NGS file formats and data QC** *Sreenu Vattipally* Games Room	**Bioinformatics 6: Introduction to metagenomics** *Sarah Buddle* Games Room	**Bioinformatic 8: Multiple Sequencing Alignment and Phylogenetics** *Sunando Roy* Games Room	**Group project 3: presentations** *Sreenu Vattipally and Tamyo Mbisa* Games Room
----17:00----	**Lecture 2: Overview of library preparation methods** *Andrew Wong and Nashma Thesin* Library room					**Wrap-up** Games Room
	Lecture 3: Different viral sample preparations *Ana Filipe*				**SEMINAR 1: Metagenomics for diagnosis and surveillance of viruses** *Sarah Buddle* Games Room	END OF COURSE
----18:00----	Networking Drinks Graham Cameron Bar	Free time	Free time	Free time	Free time	
----19:00----	WELCOME DINNER HH Restaurant	DINNER HH Restaurant	DINNER HH Restaurant	DINNER HH Restaurant	Pre dinner drinks Graham Cameron Bar	
----20:00----					COURSE DINNER HH Restaurant	
----21:00----	Sunday 2 March	Monday 3 March	Tuesday 4 March	Wednesday 5 March	Thursday 6 March	Friday 7 March

Right-hand time markers: ----08:30----, ----09:30----, ----10:30----, ----11:30----, ----12:30----, ----13:30----, ----14:30----, ----15:30----, ----16:30----, ----17:30----, ----18:30----, ----19:30----, ----20:30----

Facility	Building
Library room	Hinxton Hall
HH Restaurant	Hinxton Hall
Graham Cameron Bar	Hinxton Hall
B220 (training laboratory)	Sulston
C302 lobby (lunch)	Sulston
C303 lobby (lunch)	Sulston
DiNA cafe (vouchers)	Sulston
Games room (informatics room)	Tennis Court Suite