



East Africa Bioinformatics Practical Workshop

Venue: Online

Facilitators: Fredrick Kebaso (Lead), Jacktone Oyoo, Purity Njenga, Samuel Mwasya, and Agnetor Mutheu.

Date: 6th to 8th August 2025

Objective: Equip participants with foundational Linux, HPC, and Genome assembly skills

Day 1: Linux and HPC Basics

Time	Activity
08:30 - 08:45	Overview of the workshop
09:00 - 12:00	Basic Linux Commands
12:00 - 12:10	Break
12:10 - 13:00	HPC Basics
13:00- 14:00	Lunch Break
14:00 - 15:00	Job Scheduling on HPC Basics
15:00 - 16:00	Q and A session

Day 2: Preprocessing Genomic Data and Assembly

08:30 - 09:30	Installing Bioinformatics Tools
09:30 - 11:30	Downloading Genomic Data from NCBI
11:30 - 11:45	Break
11:45 - 13:00	Quality Assessment of Sequence Reads
13:00 - 14:00	Lunch Break
14:00- 15:00	Cleaning Sequence Reads
15:00 - 16:00	Genome assembly

Day 3: Genome Quality Assessment

08:30 - 10:00	Assembly Improvement
10:15 - 10:30	Tea Break
10:30 - 12:30	Assessing the Quality of the Assembled Genome
12:30- 13:30	Final remarks and Participant feedback