

Oxford Nanopore Sequencing

Using the Command Line

Date: 9 am – 5 pm, Friday 23rd April 2027

Location: Computer Room 2, Polwarth Building, University of Aberdeen, Foresterhill Campus.

Format: Instructor led computer-based tutorial with support demonstrators.

Instructors: CGEBM Bioinformaticians (Dr Tilly Scott, Dr Antonio Ribeiro, Dr Louie van de Lagemaat)

Description: The demand for methods for investigating genomes and transcriptomes for a large number of species has led to an increase in use of long-read sequencing technologies, among these Oxford Nanopore sequencing. This workshop will work through the key steps in processing long read data produced by Oxford Nanopore sequencing machines, including base calling, quality control and downstream genome assembly.

Topics:

- Base calling
- Quality control
- Genome assembly and polishing
- NCBI foreign contaminant screening tool suite
- Assembly quality assessment

Who should attend: This workshop is aimed at researchers, staff and PhD students, interested in long read sequencing of genomic DNA, although many aspects are relevant to long-read transcriptome sequencing as well. The aim of the workshop is to demonstrate the keys steps involved in this analysis.

Pre-requisites: Introduction to the University of Aberdeen HPC Cluster and Basic Unix Skills workshop or previous experience with the command line and HPC (Maxwell or Macleod).

An account on the teaching HPC, Macleod, is needed. We are providing teaching accounts for all participants to use for the duration of the workshop. If you would like to use the research HPC, Maxwell, after the workshop you will need to obtain an account (Email: digitalresearch@abdn.ac.uk). For more details see <http://www.abdn.ac.uk/staffnet/working-here/hpc.php>. Macleod and Maxwell have the same file structure, operating system and scheduler. What you learn on the course is applicable to both University of Aberdeen HPC clusters.

Closing Date for registrations: 16/04/2027 or when capacity is reached.

Closing Date for cancellations: Cancellations received before 16/04/2027 will receive a full refund minus a £40 admin fee. Full course fees will be charged for cancellations after this date.

Cost: For University of Aberdeen staff and PhD students the workshop is £180. Payments must be made before registration. Please enter your order details on the registration form. Details on how to raise an internal order for the course fees are provided on the registration form. Separate course fees apply for external or commercial delegates. Please contact us for further details before registering.

Registrations: Please complete the registration form [here](#), or scan the QR code



Further Information: Please contact Elaina Collie-Duguid (e.collie-duguid@abdn.ac.uk)

NOTE This workshop will only run if a minimum number of attendees register. In circumstances of cancellation, full refunds will be given.