

Visualisation with R and ggplot2

With a focus on next generation sequencing applications

Date: 10 am - 2 pm GMT, Wednesday 15th May, 2024

Location: Computer Room 3, Polwarth Building, University of Aberdeen, Foresterhill Campus.

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

Instructor: CGEBM Bioinformaticians (Dr Antonio Ribeiro, Dr Dami Oresegun, and Dr Louie van de Lagemaat)

Description: With the advancements in next generation sequencing technologies and the production of large-scale datasets, Excel and other such software have become difficult and unsuitable to use for the production of high-quality figures. With a focus upon graphical representation of data from analysis of various next generation sequencing applications, this workshop aims to teach the skills needed for visualisation using R. This will include use of R studio, basic plots and a focus on the use of ggplot2.

Topics:

- Introduction to R and R studio
- Getting your data into R
- Introduction to ggplot2
- Plots related to next generation sequencing applications within ggplot2

Who should attend: This workshop is aimed at researchers, staff and PhD students, interested in learning more about visualising data using R and ggplot2. The aim of the workshop is to allow participants to be able to visualise their own data with R studio.

Pre-requisites: None.

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: digitatresearch@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: 08/05/2023 or when capacity is reached

Closing Date for cancellations: Cancellations received by 08/05/2023 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 £100. Details on how to complete payment are provided on the registration form.

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, so please contact us for further details before registering.

Registrations: To register for this course, please complete the registration form [here](#), or scan the QR code



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