## Programme

| Time | Topic | Trainer |
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|  | **Day one – 20th March 2024** |  |
| 08:50 – 09:00 | Arrival and registration |  |
| 09:00 – 09:10 | Welcome and introductions | Nicolas Sylvius |
| 09:10 – 10:00 | Overview of NGS technologies | Nicolas Sylvius |
| 10:00 - 10:30 | Introduction to Unix and BASH - lecture | Charles Solomon |
| 10:30 - 10:40 | Break |  |
| 10:40 - 11:30 | Introduction to Unix and BASH - practical | Charles Solomon and Nicolas Sylvius |
| 11:30 - 12:00 | File Formats & Data QC - lecture | Charles Solomon |
| 12:00 - 13:00 | Lunch |  |
| 13:00 - 14:00 | Data QC - practical | Charles Solomon and Nicolas Sylvius |
| 14:00 - 14:45 | Read mapping and quantification - lecture | Charles Solomon |
| 14:45 - 15:00 | Break |  |
| 15:00 - 17:00 | Read mapping and quantification - practical | Charles Solomon and Nicolas Sylvius |
|  | **Day two – 21st March 2024** |  |
| 09:00 – 09:30 | Recap of day one | Participants |
| 09:30 – 10:00 | SAM/BAM file formats - lecture | Charles Solomon |
| 10:00 – 11:00 | SAM/BAM file formats - practical | Charles Solomon and Nicolas Sylvius |
| 11:00 - 11:10 | Break |  |
| 11:10 - 11:30 | Quick introduction to R and RStudio on ALICE | Charles Solomon |
| 11:30 - 12:00 | Differential expression analyses - lecture | Charles Solomon |
| 12:00 - 13:00 | Lunch |  |
| 13:00 - 15:00 | Differential expression analyses - practical | Charles Solomon and Nicolas Sylvius |
| 15:00 - 15:15 | Break |  |
| 15:15 - 15:45 | Reproducible research and reporting with Rmarkdown - lecture | Charles Solomon |
| 15:45 - 16:45 | Reproducible research and reporting with Rmarkdown - practical | Charles Solomon and Nicolas Sylvius |
| 16:45 - 17:00 | Course wrap up |  |

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