

Further omics, statistics and clinical data in R

| Session | Time | Type | Topic |
|---------|---------------|----------|---|
| 1 | 9:30 – 10:30 | Lecture | Summarising data and handling clinical data |
| | 10:30 – 12:30 | Tutorial | Summary stats and clinical data tables in R |
| | 14:00 – 15:00 | Lecture | P-values and differential tables |
| | 15:00 – 17:00 | Tutorial | Stats in R, using a loop to do create a DE table |
| 2 | 9:30 – 10:30 | Lecture | Survival Curves in R |
| | 10:30 – 12:30 | Tutorial | Survival Curves in R |
| | 14:00 – 15:00 | Lecture | Power calculations & Linear Models |
| | 15:00 – 17:00 | Tutorial | Power calculations & Linear Models |
| 3 | 9:30 – 10:30 | Lecture | Custom functions in R |
| | 10:30 – 12:30 | Tutorial | Custom functions in R |
| | 14:00 – 15:00 | Lecture | Deeper PCA – clinical information, batches & correcting |
| | 15:00 – 17:00 | Tutorial | Deeper PCA – clinical information, batches & correcting |
| 4 | 9:30 – 10:30 | Lecture | DESeq2, batches and correcting |
| | 10:30 – 12:30 | Tutorial | DESeq2, batches and correcting |
| | 14:00 – 15:00 | Lecture | DE workflows as a single function & list objects |
| | 15:00 – 17:00 | Tutorial | DE workflows as a single function & list objects |
| 5 | 9:30 – 10:30 | Lecture | Experiments with >2 groups |
| | 10:30 – 12:30 | Tutorial | Venn diagrams and fold-fold plots |
| | 14:00 – 15:00 | Lecture | Differential expression signatures |
| | 15:00 – 17:00 | Tutorial | Differential expression signatures |

More information at: www.immunology.org/training/bioinformatics-training.