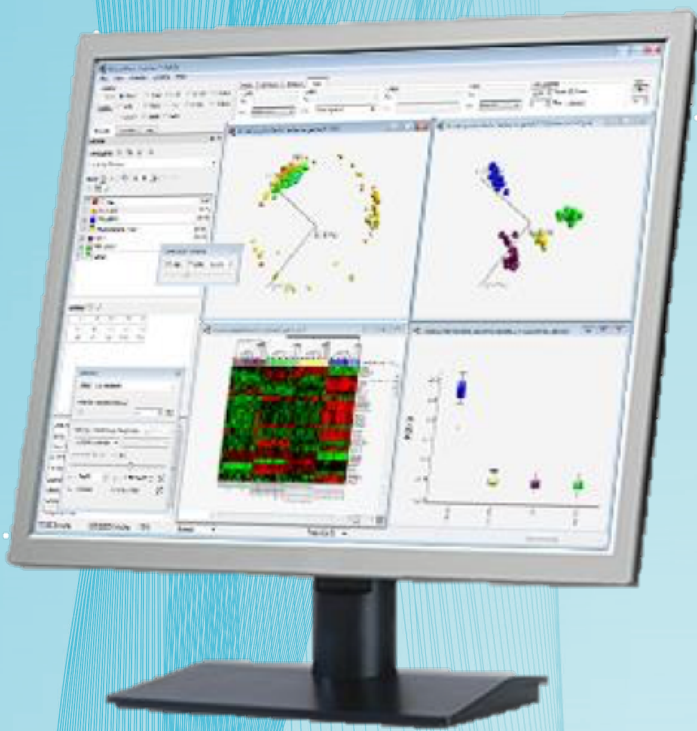


Basic training and Extended training on Qlucore Omics Explorer and Qlucore NGS module

Thursday, March 14th

*Institut Pasteur, **Metchnikoff**, meeting room 3rd floor*



9:30 am–12:30 am **BASIC TRAINING**

The training includes the following hands-on exercises:

1. Import data with Wizard
2. User interface
3. Heatmap
4. ANOVA – export variable list
5. t-test - Synchronized heatmap & PCA plots
6. Box plot
7. Linear regression test
8. Download analyze a dataset from GEO
9. Exploratory Data Analysis
10. Clustering

1:30 pm–5:00 pm **EXTENDED TRAINING**

Statistical functions and tools in Qlucore Omics Explorer and genome analysis in Qlucore NGS module

Hands-on exercises - Qlucore Omics Explorer:

1. Data import - RNA-seq data (BAM files), cel files, txt files etc
2. Examples of experimental design and models – use of eliminated factors (like paired t-test and Interaction Effects)
3. Biological exploration of data
 - a. Variable lists
 - b. GO (Gene Ontology) Browser
 - c. Gene Set Enrichment Analysis
4. Compare results between datasets
5. Build and use a Classifier
6. Run test in Extended Mode – using “R” API – (demo)

Hands-on exercises - Qlucore NSG module - intro:

1. Set up a project and pre-process RNA-seq data
2. Use Qlucore Genome Browser – use filters to find mutations

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