

Improved data analysis with new Qlucore Omics Explorer V3.6

[Qlucore](#), world leader in the development of bioinformatics software, announces version 3.6 of its Qlucore Omics Explorer data analysis software.

Qlucore Omics Explorer (QOE) supports the user with fast, simple and visual analysis of measured data from a wide range of sources and instruments to maximize the output of the analysis. Results are presented in real time with a visual update, making it easy for publishing and working in teams. QOE ships in a base module with an option to add an NGS module with extensive functionality for NGS data analysis. The program integrates well with workflows and through the Python based template functionality it is possible to control the program through a script and configure well defined analysis steps.

QOE V3.6 sees the addition of several new features in different areas, making it even easier and faster to undertake data analysis. The main improvements are the direct import of single-cell data and improved survival calculations using Hazard ratios, as well as the addition of one more classifier method (gradient boosted decision trees) in the Machine Learning module. This is especially important for precision medicine applications. The Fusion Gene workbench, which incorporates a new Circle plot enables a completely new analysis category.

The suite of standard Templates is expanded. It now includes Templates for direct import of single cell data from 10x Genomics and one for direct data download from The Cancer Genome Atlas (TCGA). The data import Wizard supports import and normalization of count data. Support for direct import of data from the Salmon tool is also added.

The Volcano plot has more options for cut-off lines, making it easier to generate publication ready plots.

The Machine Learning support (build classifiers and use them to predict the outcome) has been improved both in terms of features with the addition of gradient boosted decision trees and in terms of performance and usability.

The new Fusion Gene workbench (part of NGS module) supports filtering on detected gene fusions both based on quality parameters as well as based on existence in public data bases. The program comes with the Mitelman as well as the Tumor fusion data base.

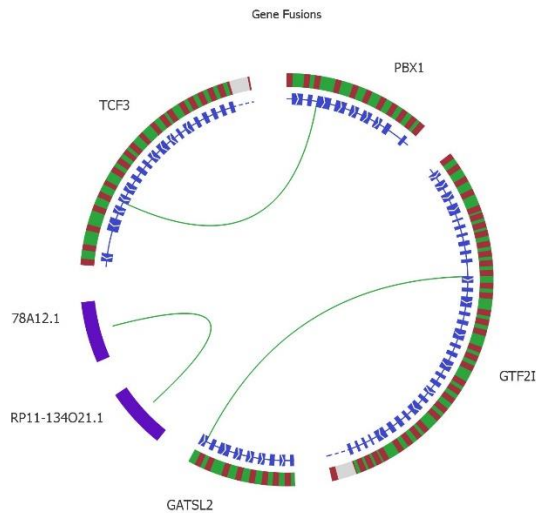


Figure 2. Circle Plot

Qlucore Omics Explorer v3.6 includes the following new features:

- TCGA direct data import
- 10x Genomics Single cell data direct import
- Salmon (quant.sf) data import and normalization
- Count based data import and normalization
- Volcano plot enhancement
- New gradient boosted decision trees classifier
- Hazard ratio calculations (in the Kaplan Meier plot)
- New Fusion Gene workbench including databases and new Circle plot

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About Qlucore

Qlucore (www.qlucore.com) is a leading provider of a new generation intuitive bioinformatics software. The Qlucore software combines powerful statistical methods with real time visualization. This shortens analysis time, adds more creativity to the research process, strengthens the path to new findings and facilitates easier and more fruitful collaboration between biologists and bioinformaticians.

The Qlucore Omics Explorer software makes it possible to interactively explore and analyse multivariate data sets, from small to very large as well as data generated with NGS technologies. The new NGS Module is an add on to Qlucore Omics Explorer, consisting of an interactive Genome browser and flexible and interactive filter options. One of the key features is to enable synchronization between the expression analysis of RNA-seq data and genomic information, making researchers even more productive.

Qlucore was founded in 2007 by leading researchers at the Departments of Mathematics and Clinical Genetics at Lund University, Sweden. Today Qlucore has customers in about 35 countries around the world, with sales offices in Europe and North America, and distribution in several countries in Asia. Many of the leading pharmaceutical companies use Qlucore in their research, as well as hospitals and universities around the world.

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