

System Requirements

QLUCORE OMICS EXPLORER VERSION 3.5 REQUIRES:

FOR WINDOWS VERSIONS

- Windows Vista, Windows 7, Windows 8 or Windows 10
- 512 MB of RAM memory
- A graphical card with support of at least Open GL 2.1
- 5 GB of free hard disk space

Qlucore Omics Explorer is available in both a 32-bit and 64-bit versions. The program takes full advantage of processors with multiple cores and computers with multiple processors.

FOR MAC VERSIONS

- Max OS X 10.14 or 10.13
- 512 MB of RAM memory
- A graphical card with support of at least Open GL 2.1
- 5 GB of free hard disk space

FOR THE NGS ADD ON MODULE THE FOLLOWING APPLIES:

- Windows Vista, Windows 7, Windows 8 or Windows 10 in 64-bit version or Max OS X 10.14 or 10.13
- 12 GB of RAM memory
- A graphical card with support of at least Open GL 3.3.
- At least 100 GB free hard disk space, preferable a SSD disk
- Intel Core i7 or similar processor preferable with 4 cores

RECOMMENDED HARDWARE SET-UP:

NGS ADD ON MODULE

- 16 GB of RAM memory
- A discrete graphical card with support of at least Open GL 3.3 and at least 1GB RAM.
- 250 GB free SSD disk space
- Additional storage for BAM files, fully dependent on experiment sizes but several TB is a likely minimum.
- Intel Core i7 or similar processor with at least 4 cores

The below recommendations are based on a native Windows set-up. Tests have been done with a Microsoft Windows 7 equipped computer. The estimates are rough recommendations and cannot be taken as a guarantee.

QLUCORE OMICS EXPLORER BASE CONFIGURATION

Up to 200 samples and 50 000 variables

Item	Recommendation
Internal memory	Qlucore Omics Explorer will require 1GB, i.e. the computer should have at least 4GB RAM
Processor	At least Core i5 processor or similar
Graphics card	Should support Open GL version 2.1 or higher.

up to 1000 samples and 500 000 variables

Item	Recommendation
Internal memory	Qlucore Omics Explorer will require 5GB, i.e. the computer should have at least 8 GB RAM
Processor	At least Core i7 processor or similar
Graphics card	Should support Open GL version 2.1 or higher. Can work without a discrete graphics card but a discrete graphics card will enhance the user experience.
Operating system	64-bit

NOTES:

Hierarchical clustering: Internal RAM memory is the most limiting factor when doing hierarchical clustering on larger data sets. For a computer with only Qlucore Omics Explorer running the following estimates are a rough guide. Note that the clustering will take a significant time and the program will not be responsive during calculations:

Data set size	Recommended Internal RAM
18000 variables and 100 samples	8 GB
30000 variables and 100 samples	16 GB
38000 variables and 100 samples	32 GB

Cel file import. Some Affymetrix chips have very large annotation files and will not work with a 32-bit solution or a 64-bit solution with less than 6 GB of RAM, due to the memory requirements.

Research purpose only

Qlucore Omics Explorer is only intended for research purposes.

Disclaimer

The contents of this document are subject to revision without notice due to continuous progress in methodology, design, and manufacturing.

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