

Press Release

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Qlucore founder co-leading course at FOCIS

Professor Magnus Fontes, one of Qlucore's founders, is co-leading this year's course in computational immunology at FOCIS 2016. FOCIS 2016 is the annual meeting of the Federation of Clinical Immunology Societies which brings together over 800 clinicians and researchers from across immune-mediated diseases for 4 days of intensive education and networking opportunities. The course on computational immunology is aimed at scientists involved or interested in the use of multi-dimensional data generated by modern genomics and proteomics technologies such as mass/flow cytometry, next-generation sequencing and microarrays. The course will provide a better basic understanding of modern statistical and mathematical concepts necessary for analysis and interpretation, and is aimed at scientists wanting a deeper knowledge around how to work with high dimensional multivariate data.

The course will allow participants to:

- Discuss the opportunities opened up by the use of genomics and proteomics technologies in modern immunology.
- Describe scientific reports on analysis of multi-dimensional data (NGS, microarray, mass/flow cytometry data analysis).
- Discuss basic principles, challenges and applications of bioinformatics data analysis.
- Describe the main components, tasks and challenges of genomics-based project in a grant proposal.
- Describe dangers connected with overfitting, multiple hypothesis testing and bias.

The course in computational immunology will be held on Tuesday, June 21 at the Seaport Hotel & World Trade Center Boston, Massachusetts. For further details:

<http://www.focisnet.org/2013-03-07-14-02-26/computational-immunology>

Qlucore is attending FOCIS 2016 and welcomes visitors to booth #3 where it will be demonstrating its Qlucore Omics Explorer software and how it can facilitate and boost exploratory and confirmatory data analyses with RNA-seq and gene expression data, protein expression, flow cytometry data and other multivariate data relevant in immunology.

Qlucore Omics Explorer is unique in that it allows the actual researchers – the people with the most biological insight – to study their own data and to look for patterns and structures. https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/510987/BIS-16-165-consultation-on-moving-land-registry-operations-to-the-private-sector.pdf As a result, researchers do not need to be statistics or computer experts in order to use Qlucore Omics Explorer effectively.

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Photography available of Professor Magnus Fontes

About Qlucore

Qlucore started as a collaborative research project at Lund University, Sweden, supported by researchers at the Departments of Mathematics and Clinical Genetics, in order to address the vast amount of high-dimensional data generated with microarray gene expression analysis. As a result, it was recognised that an interactive scientific software tool was needed to conceptualise the ideas evolving from the research collaboration.

The basic concept behind the software is to provide a tool that can take full advantage of the most powerful pattern recogniser that exists - the human brain. The result is a core software engine that lets the user handle and filter data and the same time instantly visualise it in 3D. This will aid the user in identifying hidden structures and patterns. Over the last four years major efforts have been made to optimise the early ideas and to develop a core software engine that is extremely fast, allowing the user to explore and analyse high-dimensional data sets with the use of a normal PC, interactively and in real time.

Qlucore was founded in early 2007 and the first product released was the "Qlucore Gene Expression Explorer 1.0". The latest version of this software, now called Qlucore Omics Explorer, represents a major step forward with advanced statistics support, streamlined workflows for multiple data types, and a wide selection of presentation methods to aid the user. The presentation methods range from an innovative use of principal component analysis (PCA) to interactive heat maps and flexible scatter plots. All user action is at most two mouse clicks away. The company's early customers are mainly from the Life-science and Biotech industries, but solutions for other industries are currently under development.

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