Grant awarded to Qlucore to aid clinical diagnostics of cancer

Qlucore, leading software provider of powerful visualization-based bioinformatics data analysis tools for research and precision diagnostics, is working with leading scientific experts at Lund University (Sweden), Gothenburg University (Sweden) and in China to develop new diagnostics methods and software solutions to significantly improve disease stratification and treatment selection of patients diagnosed with cancer.

A recent grant awarded by VINNOVA, the Swedish Governmental Agency for Innovation Systems, will allow Qlucore to expand Qlucore Diagnostics, the new diagnostic software solution for improved clinical diagnostics of cancer, with a focus on RNA-profiling of glioma and acute leukemia. Glioma and acute leukemia are among the most lethal human malignancies and share common molecular genetic alterations.

Cancer is caused by several genetic changes and currently most efforts in a diagnostic setting are focused on molecular profiling at the DNA-level using next-generation sequencing (NGS). International research efforts have demonstrated that transcriptional profiling (RNA seq) of cancer provides critical insights into cancer biology and has a great clinical utility. RNA-seq can reliably detect the expression of gene fusions and measure gene expression levels that can be used for classification, but a major reason for not being utilized in clinical diagnostic settings is the lack of standardized assays and the complexity of data analysis.

- *To improve cancer precision medicine, there is a need to more quickly move new research findings into clinical use. The VINNOVA grant will enable us to more rapidly develop a clinical grade diagnostics software tool that can be used by the individual clinical lab. This will be an important step for future development of precision cancer medicine.* **Carl-Johan Ivarsson, President, Qlucore.**

Qlucore is building the software on a flexible and generic platform based on standardized NGS workflows with a focus on superfast visualization and capabilities to handle integrative models with data from different sources. Given that the great majority of all cancer subtypes in the future are anticipated to be transcriptionally profiled, the software solution will also be applicable to all major cancer forms in the future.

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ABOUT QLUCORE

Qlucore (www.qlucore.com) is a leading provider of new generation intuitive bioinformatics software for research and precision and companion diagnostics. Qlucore's mission is to make it easier to analyze the huge amounts of complex data that are generated by innovations in the fields of genomics and proteomics. This is done by providing powerful visualization-based bioinformatics data analysis tools for research and precision diagnostics. The tools are so easy to use that researchers, technicians and physicians easily can interpret and explore their datasets.

The Qlucore Omics Explorer software is a Do-It-Yourself bioinformatics software for research in the life science, plant- and biotech industries, as well as academia. The powerful and flexible visualization-based analysis tool with built-in powerful statistics delivers results instantly.

The Qlucore Diagnostics software is a platform for multi-omics companion and precision diagnostics. AI-powered, disease-specific machine learning-based classifier models are combined with patient-friendly visualizations in a an easy to use and cost-effective software solution that integrates with a wide range of data-generating techniques and instruments.

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 academic institutions and pharmaceutical companies around the world use Qlucore in their research.

ABOUT VINNOVA

VINNOVA - Swedish Governmental Agency for Innovation Systems - is Sweden's innovation agency. Its mission is to promote sustainable growth by improving the conditions for innovations, as well as funding needs-driven research.

VINNOVA's vision is for Sweden to be a world-leading country in research and innovation, an attractive place in which to invest and conduct business. It promotes collaborations between companies, universities, research institutes and the public sector. It does this by stimulating a greater use of research, by making long-term investment in strong research and innovation milieus and by developing catalytic meeting places. VINNOVA's activities also focus on strengthening international cooperation. In order to increase impact, it is also dedicated to interacting with other research financiers and innovation-promoting organisations.

VINNOVA is a Swedish government agency working under the Ministry of Enterprise, Energy and Communications and acts as the national contact agency

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