

Media News

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TATAA Biocenter launches GrandPerformance assays for expression profiling of single circulating tumor cells

TATAA Biocenter, Europe's leading provider of genomic services using quantitative real-time PCR (qPCR), launches the GrandPerformance qPCR assays for the profiling of Circulating Tumor Cells. The assays are optimized for single cell sensitivity and the workflow is based on preamplification allowing sensitive and precise measurements of 96 specific expression markers per cell.

Tumors may shed cells into the blood flow that evade the immune defence and may seed metastases. These cells are called circulating tumor cells (CTCs). CTCs may be detected in blood sample and their presence is a negative prognostic indicator. Further characterization of CTCs by expression profiling may reveal their phenotype, which may guide therapeutic decisions. Molecular characterization of CTCs is challenging, because of their very low abundance, which requires exceedingly sensitive and specific methods. TATAA Biocenter has previously developed workflow for exceedingly specific and sensitive single cell expression profiling based on reverse transcription (RT), preamplification and real-time PCR (Expert review of molecular diagnostics 14, 323 (2014)). Now TATAA launches a panel of over 100 GrandPerformance assays wet-lab validated for CTC profiling that allows the characterization of individual CTCs. The panel was recently used by the group of professor Klaus Pantel at University Klinik Hamburg-Eppendorf to profile individual CTCs collected from patient samples revealing heterogeneity among them (Clinical Chemistry 62 (11), 1504-1515 (2016)).

About TATAA Biocenter

TATAA Biocenter is the world's largest organizer of hands-on training in quantitative real-time PCR and Next Generation Sequencing, Europe's leading provider of nucleic acid analysis services, and Sweden's most comprehensive distributor of products for nucleic acids analysis. TATAA Biocenter offers a seamless workflow for high quality nucleic acids analysis from experimental design, sample preparation, quality control, and analysis, meeting the specific requirements for compliance with ISO17025 standard. Founded in 2001, TATAA Biocenter has laboratories in Gothenburg, Sweden, and in Prague, Czech Republic. In 2013 TATAA Biocenter was presented the Frost & Sullivan Award for Customer Value Leadership as Best-in-Class Services for Analyzing Genetic Material. For more information on the TATAA GrandPerformance assays, see <https://webshop.tataa.com/category.html/qpcr-assays> or contact us on info@tataa.com