

Breast Cancer: Current Research



From bench to bedside - microRNAs for monitoring treatment success and stratification of cancer patients.

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Abstract

The use of molecular biological methods especially droplet-digital PCR and NanoString technology offer several possibilities for translational research and cancer patient stratification. Some examples based on microRNA expression in solid turnours will be divaropd

MicroRNAs are pivolal regulators for RNA silencing and post-transcriptional regulation of gene expression under physiological as well as pathological conditions. MicroRNAs can be detected in fessues and in most biologic fluids including serum, plasma and urines. Secreted microRNAs are either incorporated into micro-resides or circulate bound to proteins. In both cases microRNAs are protected from RNase degradation so that they may remain intact for long periods of time. Therefore they might represent potential new biomarkers.

We analysed expression of 800 miRNA's using nCounter NanoString technology in cancer cell lines, formalin fixed paraffin embedded tissues and plasma from cancer patients. Potential clinical applications of microRNA detection for cancer patients' management will be discussed.

Biography

Alex studying general chemistry and blockworking at the Abert-Lucinigs-University Frebung LBr. (Gennary) Jens got the PnD in blockworking from the same university. During like PnD work Jens was trained in virology, cell- and notecutar-biology. During several position positions, Department of Motecutar Politology at the University of Boun (Gennary), Charite Berlin (Gennary), Department of Gynaecology and Obstetrics at the University of Warryburg (Gennary)) he received a broad training and burniering in motecutar politology and cancer research. At the moment Jens is working in the Department of Moteratian Patientagy at the ICR (Lordon, UK).

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