WWTF Project LS11-026

Serum-Autoantibody testing for early diagnosis of Breast Cancer

Abstract

Tumour auto-antibodies in the serum of patients are early indicators for breast-cancer and can be detected by protein-chips using a few micro liters of patients' serum.
Protein chip technology (AIT) and phage-display (BOKU) will be used for identification of auto-antibody-based markers. Therefore serum of patients with malignant and benign breast tumours and healthy controls will be used (MUW), then a prototype test will be developed and validated using 1200 serum samples. Hence an assay will be developed which in addition to mammography improves the detection and diagnosis of early-stage breast cancer. This project has a high long-term impact because early detection of breast cancers significantly enhances therapeutic success and women's chances of survival.

Keywords:
breast cancer serum-autoantibody, biomarker, protein-microarray, peptide-microarray, high troughput protein expression

Principal Investigator:	Andreas Weinhaeusel
Institution:	AIT Austrian Institute of Technology GmbH
Further collaborators:	Christian Singer (Medizinische Universität Wien) Florian Rüker (University of Natural Resources and Life Sciences, Vienna)

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Further links about the involved persons and regarding the project you can find at
https://archiv.wwtf.at/programmes/life_sciences/LS11-026