



Universität
Basel

Research Project

Nano Tera: Membrane SurfaceStress Sensor Devices

Third-party funded project

Project title Nano Tera: Membrane SurfaceStress Sensor Devices

Principal Investigator(s) [Meyer, Ernst](#) ;

Organisation / Research unit

Departement Physik / Nanomechanik (Meyer)

Department

Project start 01.11.2015

Probable end 31.10.2016

Status Completed

Membrane surface stress sensors (MSS) have been developed in NanoTera project Probe Array Technology for Life Science (PATLiSci, 2010-2013) and applied in successful non-invasive clinical studies to detect volatile compounds in breath of patients suffering from Head and Neck Cancer and Lung Cancer. Breaths from patients at CHUV, Lausanne, were collected in sampling bags by medical doctors for analysis in a home-built device prototype at the Physics Department of the University of Basel. As head and neck cancer can be completely cured by surgical removal of the tumor, the success of the operation could also be documented using the MSS technique.

Financed by

Swiss Government (Research Cooperations)

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