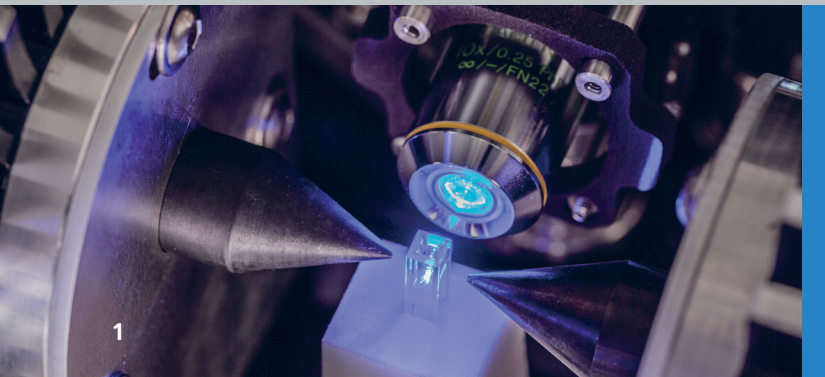


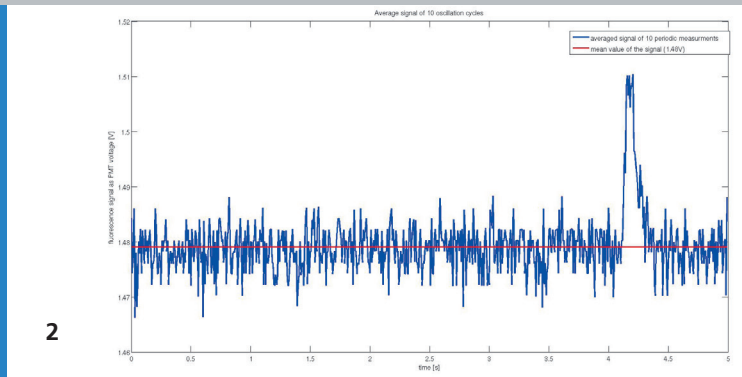


# Fraunhofer IPA

FRAUNHOFER INSTITUTE FOR MANUFACTURING ENGINEERING AND AUTOMATION IPA



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- 1 *BeadTRAP system for high signal-to-background measurement of proteins or DNA/RNA.*
- 2 *Measurement of a protein of interest with BeadTRAP in a one-step-process without washing procedures.*

## ASSAY ON BEADS

### Background

Functionalized magnetic beads make it possible to bind almost any analyte that is known. The idea behind Assay on Beads is to open up ways to utilize magnetic beads not only for purifying biomolecules, but also for simultaneous analysis with improved signal-to-background ratio.

### Our Service

With our laboratory infrastructure we can help you to design, build up and operate the best possible magnetic assay systems. We are specialized in high-sensitive laboratory equipment and Point of Care devices to analyze biomolecules in very low concentrations. Our large library of magnetic beads is supplemented by the beads developed in-house. Currently, we are working on molecular imprinted beads (MIPs) mimicking the structure of biological molecules such as biotin, streptavidin, antibodies or even DNA/RNA fragments.

### Your Benefit

Our knowledge in engineering magnetic analysis systems will give you highest signal to background ratios with low noise. Optimal bead choice or individual bead development help to further increase your analytical results. Combination of the magnetic systems with electrical or optical measurement equipment even makes it possible to screen for multiple analytes in a one-step process without washing procedures.

### Project Group for Automation in Medicine and Biotechnology

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