

High-performance lateral flow assays

We develop innovative immunoassay designs for the detection of relevant analytes like proteins, nucleic acids or small molecules in complex sample matrices. Our aim is to design the next generation of bioanalytical tests that are tailor-made for applications in the area of in-vitro-diagnostics, point-of-care testing and bioanalytical sciences.

Our novel biochemical approaches are compatible with conventional platforms like microtiter plates or innovative microfluidic devices. In addition, we push forward the development of lateral flow assays and offer services ranging from assay design, bead functionalization technologies and impregnation options.

We strive for straight-forward lateral flow assays with high performance, optimized sample and reagent consumption, as well as assays that run on easy and simple-to-use equipment.

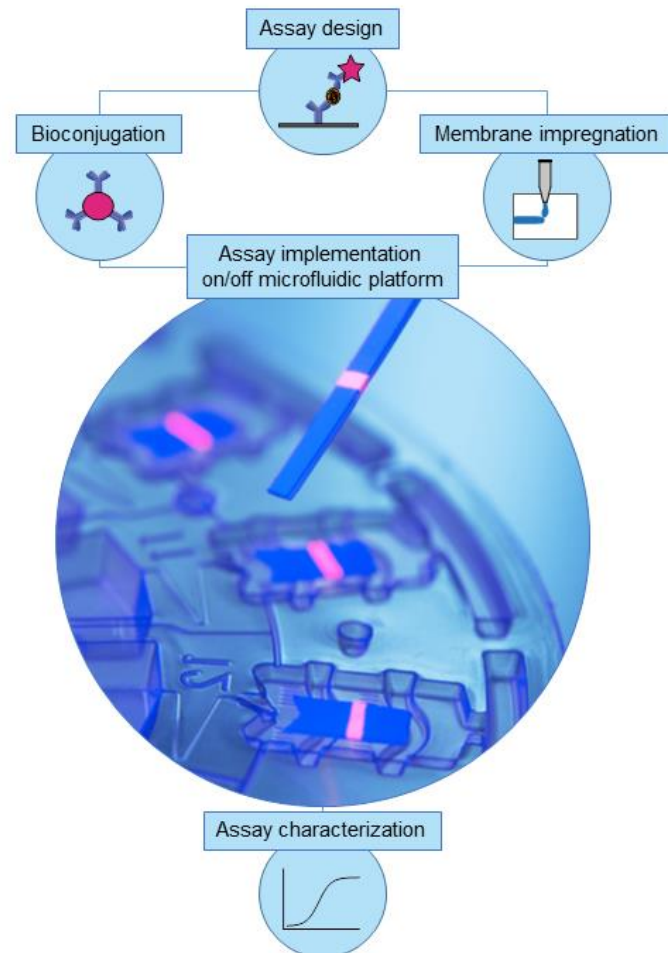


Figure 1: Typical workflow for development of high-performance lateral flow assays.

Innovation

- High sensitivity and broad dynamic range as well as integrated sample preparation
- Multifunctionality → Analysis of various parameters
- Tunable incubation times → Reactions between in 5-60 minutes possible

Service + Competence

- Tailor-made protein functionalization:
 - > Random + site-specific
 - > Covalent + affinity-based
- Design of orthogonal biochemical reactions
- Microfluidic platform integration

Your Benefit

- Unique combination of expert knowledge in biochemical assay development and engineering know-how
- All immunoassay design steps can also be offered as independent services