

heliX® – a next generation modular biosensor for interaction and conformational analysis

You are cordially invited to a scientific webinar presenting dynamicBIOSENSORS' novel switchSENSE® measurement technology.

CBI ANNUAL MEETING 2020 ONLINE

Tuesday, October 27 at 01:00PM / Session ES-05

The scientific presentation will highlight the broad range of applications of the switchSENSE® technology that is supported by the recently launched heliX® line of biosensor instruments, that pushes the boundaries of what has been possible in biosensing to help you do more:

- Analysis of **binding kinetics** and **molecular conformations** in one measurement.
- Screening of **conformational changes** *de novo* by **real-time conformation referencing**.
- Resolving the **fastest kinetics** with confidence using advanced microfluidics and 10 ms data collection, and taking advantage of improved signal



stability for the characterization of high-affinity binders in **long dissociation** measurements.

- Two-color single-photon counting fluorescence detection for **femto-molar sensitivity** and the in-depth analysis of **bispecific** binders.
- Effortless sensor functionalization and advanced **ligand density control** with the new Adapter Chip.

heliX® is based on a modular technical design and features an **automatic chip-loader** in conjunction with a **384 well plate compatible autosampler**, allowing you to **scale-up throughput** to thousands of samples per day.

The Speaker | Ulrich Rant, PhD

Uli is a co-founder and CEO of Dynamic Biosensors GmbH, a Munich based biotech venture company, which commercializes novel technologies in the field of biomolecular interaction analysis (switchSENSE®). Following its market entry in 2014, Uli oversees the company's activities in the continuous development and marketing of pioneering nano-analytical instruments and biochips, focusing on growing Dynamic Biosensor's business in EU, US, and Asia.



DISCOVER MOLECULAR INTERACTIONS

Kinetics – Affinity – Avidity
Conformational Changes
Thermodynamics

Webinar on Oct. 27 / 01:00PM



Introducing

heliX[®]

the first modular
biosensor system.



Scalable throughput

Up to thousands of samples
per day.

[384 well plate autosampler and
automatic 5 chip loader] x N

Combine as many autonomous
modules as you need to a **scalable heliOS network**.



High performance switchSENSE[®] sensing

Each module with **two-color
detection** and **four signals,
fM sensitivity**.

Advanced microfluidics, kinet-
ics with 10 ms resolution.

Conformation analysis by
molecular friction measure-
ment.



Easy-to-use heliOS software

Add modules to any network
by **plug-and-play**.

Control and monitor runs from
anywhere.

About the technology

switchSENSE[®] is an automated, fluorescence-based biosensor chip technology that employs electrically actuated DNA nanolevers for the real-time measurement of binding kinetics (k_a , k_d) and affinities (with K_D values down to the fM range).

The platform offers an automated ligand density control, which allows to conveniently discriminate between affinity and avidity in one single assay. Interactions between proteins, DNA/RNA, and small molecules can be detected with femtomolar sensitivity. At the same time, protein sizes are analyzed and conformational changes as well as melting transitions (T_M) can be measured using minimal amounts of sample.