Introducing the DRX\textsuperscript{2}

Analysis of two molecular probes on the same detection spot

\textit{switch}SENSE\textsuperscript{®} technology tracks the movement of fluorescently tagged DNA nanolevers bound to a gold biochip surface. The nanolevers can be used to hold target molecules, for instance coupled antigens, or can be the target themselves when studying interactions with nucleic acid. \textit{switch}SENSE\textsuperscript{®} measures the kinetics of the interaction plus provides biophysical information on size, shape and position, all in real time.

The new double color DRX\textsuperscript{2} instrument is equipped with two light sources and two photon counters optimized for red & green fluorophores. This offers the capability to simultaneously, yet separately track two different nanolevers, each with a different sequence and fluorescent tag (red & green).

Contact \textbf{info@dynamic-biosensors.com} to speak to our application team about methodologies or to arrange a demonstration.
DNA Binding Proteins
Two different nanolever populations, marked with different colored tags, on the same detection spot, lying in close proximity. Use one nanolever as the target and the other as the control for absolute data quality and confidence.

Dual Binding Modelling
Presenting two interchangeable targets at fixed and known positions, switchSENSE® offers the ultimate solution for understanding bivalent / bispecific antibody design.

Specifications of DRX²
Automated liquid handling and dilution series platform for 96-well plates or vials. Full walk-away operation for overnight measurement and multiple regenerations. Reusable biochips. Temperature-controlled environment.

- Limit of detection: 10 fM
- Dissociation constant: 50 fM - 1 mM
- Association rate constant: $10^3 - 10^8$ M$^{-1}$s$^{-1}$
- Dissociation rate constant: $10^{-6} - 1$ s$^{-1}$
- Hydrodynamic diameter accuracy: 0.1 nm
- Temperature: 8° - 75°C (chip) / 10°- 40°C (autosampler)

switchSENSE® is a proprietary measurement technology by Dynamic Biosensors GmbH. Instruments and biochips are engineered and manufactured in Germany.