

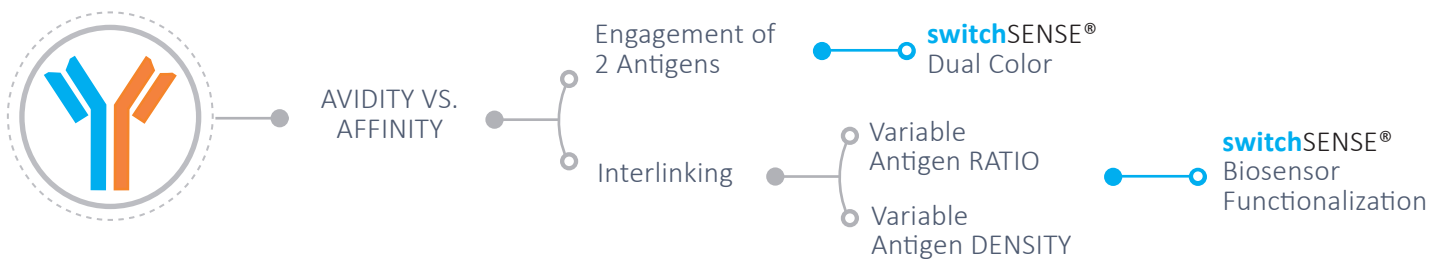
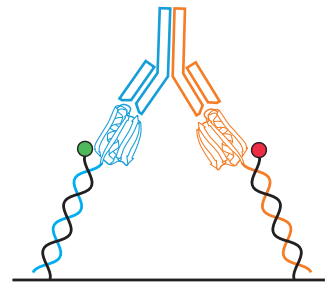
Bispecific Challenges?

switchSENSE® Bifunctional Biosensors are the Solution.

Bifunctional Biosensors for the Analysis of Bispecific Antibodies

switchSENSE® advantages:

- Straightforward sensor functionalization with **two different antigens**
- Variable ligand density to **control interlinking** when multivalent binders are measured
- Easily **adjustable antigen surface** ratio to mimic cell surface abundances
- **Dual-color technology** to monitor each interaction individually
- Stable signals for long dissociations to measure slow **avidity off-rates**
- switchANALYSIS software with bi-phasic fitting algorithms to **discern affinity and avidity**
- switchSENSE® size analysis to assess **antigen stability** on the sensor surface



Contact info@dynamic-biosensors.com to speak to our application team about methodologies or to arrange a demonstration.

For a list of recent publications please visit
www.dynamic-biosensors.com/literature/

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.
Dual-color technology for the simultaneous detection of two interactions.

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)



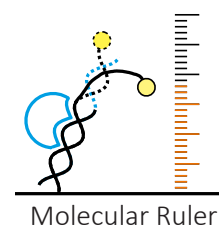
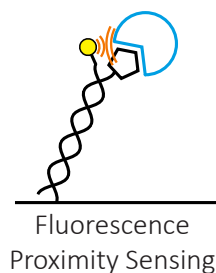
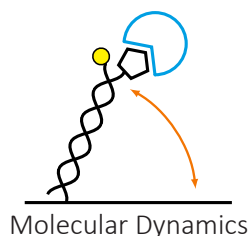
Double the colors.

Discover the possibilities.

The World of **switch**SENSE[®]

switchSENSE[®] technology utilizes a novel electro-switchable biosurface to provide researchers and commercial laboratories the ability to characterize interactions between molecules in real-time. This technology is unlike existing methodologies in that it combines high sensitivity kinetics with structural information on size, shape, position and conformation providing a new depth and understanding of the interaction.

switchSENSE[®] captures three channels of information for a new depth of interaction understanding:



- High frequency dynamic electrical switching mode measures hydrodynamic friction for absolute size and shape of interacting biomolecules.
- Fluorescence proximity sensing for real time size-independent kinetics through changes in the local environment.
- Molecular ruler mode utilizes long-ranged energy transfer to measure the height above the biochip with sub nanometer accuracy.

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