Drugging the "undruggables"

Overcome the challenge of analyzing small molecules that inhibit or stabilize protein-protein interactions

Create **Homo- or Hetero-protein immobilization** on the biosensor surface.

**Hit screening of compounds** that interfere in PPIs, such as PROTACs, molecular glues and more.

Use **FRET or standard fluorescence change** to measure the interaction.

Highly sensitive for **detecting weak and tight binders**.

**Low sample** consumption.
The DNA Y-structure

Interactants on a leash

Proteins of interest
Homo- or heteroproteins

Green and red dye
For FRET and fluorescence proximity sensing

Flexible hinge region
Unrestricted movement of the arms

Long spacer/anchor
Quasi-native solution environment

The Y-structure closes upon small molecule binding, and the subsequent ternary complex formation brings together the green donor and the red acceptor dye into a closer, FRET sensitive, distance. The change in red fluorescence signal intensity directly correlates with ternary complex formation kinetics.

For further information and application examples, visit our website www.dynamic-biosensors.com