## **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.

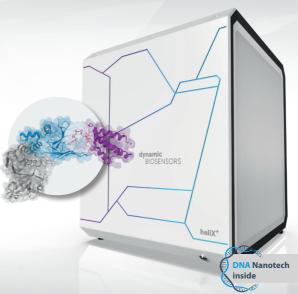
**Hit screening of compounds** that interfere in PPIs, such as PROTACs, molecular glues and more.

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

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

Low sample consumption.

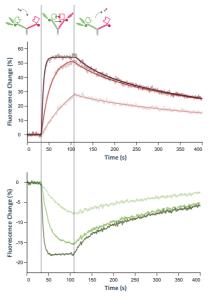




## The DNA Y-structure

## Interactants on a leash





Analysis of the binding kinetics of a small molecule (PROTAC) inducing targeted protein degradation. Simultaneous binding of the PROTAC to a ligase and a target protein causes the formation of a ternary complex and thereby induces red fluorescence due to FRET.

## Analyze ternary complex formation vs binary interactions







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