



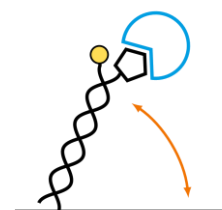
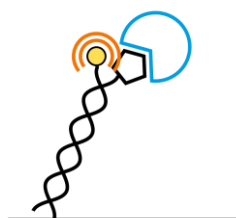
Seminar

Biophysical Analysis of Molecular Interactions with Electro-Switchable Biosurfaces - **switchSENSE**[®]

Audytarium im. Prof.
Czochralskiego

Tuesday June 20th 2017

at 12:00h



Wydział Chemiczny Politechniki Warszawskiej, Koszykowa 75, Warszawa

switchSENSE[®] is a novel molecular interaction technology that combines high sensitivity kinetics with structural measurements of size and space on a highly flexible nucleic acid based bilayer.

Topics to be covered:

- General Introduction to **switchSENSE**[®] technology.
- **Conformational changes** – absolute sizing and conformational change screening including dimer targets.
- **RNA and DNA tools** – highly flexible capture template for oligos, aptamers and riboswitches.
- **Protein-protein interactions** – determine binding rate constants k_{ON} , k_{OFF} and dissociation constants K_D in real-time.
- **Antibody design** – unique tools for bispecifics, ideal for high affinity partners with slow dissociation rates
- **Small molecules** – absolute sizing and conformational change screening including dimer targets
- **Nucleic acid binders** – visualize enzymes bind and work in real time – polymerases, ligases, Cas9

