

2022 USER MEETING Program

dynamic
BIOSENSORS

Wednesday, Sep. 07th

13:00	Welcome & Registration	16:00	Expansion of a biophysical platform for multimodality drug discovery – implications on work flows beyond classical small molecule approaches <i>Florian Krieger, Evotec SE, Hamburg</i>
14:00	Opening remarks <i>Ulrich Rant, Dynamic Biosensors</i>	16:20	HOW TO... analyze and plot kinetic data: New software features <i>Sebastian Letschert, Dynamic Biosensors</i>
14:15	Interactome analysis of nucleic acids containing abasic sites <i>Glenn Burley, University of Strathclyde, Strathclyde</i>	16:35	switchSENSE in the drug discovery process: Case of study <i>Lorenzo Turcano, IRBM, Pomezia</i>
14:45	HOW TO... use the Adapter Biochip. One chip - many applications <i>Daliborka Jambrec, Dynamic Biosensors</i>	16:55	HOW TO... measure kinetics directly on cells <i>Nena Matscheko, Dynamic Biosensors</i>
15:00	Stretching the helix: Many-sided applications in all dimensions <i>Vera Molkenthin, 2bind, Regensburg</i>	17:10	Kinetics on cells – trapping the future?! A β-Test <i>Sebastian Friebe & Ute Jucknischke, Roche Diagnostics, Penzberg</i>
15:20	Coffee Break	18:00	Networking Event at Die Küche im Kraftwerk <i>Drygalski-Allee 25, 81477 München</i>

Thursday, Sep. 08th

08:30	Coffee & Registration	14:10	Proximity induced binding: Sometimes the Y (DNA nanostructure) is the answer <i>Ulrich Rant, Dynamic Biosensors</i>
09:00	'Misusing' biosensors: Enzyme kinetics with binding sensors – the example of DNA-modifying enzymes <i>Frank Bier, University of Potsdam, Potsdam</i>	14:25	DNA glycosylases in maintenance and regulation of i-motifs <i>Tobias Obermann, NTNU, Trondheim</i>
09:30	HOW TO... analyze catalytic rates of enzymes with switchSENSE <i>Anahi Higuera, Dynamic Biosensors</i>	14:40	Mono- and multivalent interactions analyzed in real-time on living cells <i>Agnes Marszal, Dynamic Biosensors</i>
09:45	Search for a potential new antibiotic: interaction of a model peptide with bacterial sliding clamps <i>Guillaume Bec, IBMC Strasbourg, Strasbourg</i>	14:55	Introduction Deep Dive Sessions
10:05	Study of the activity of DNA-modifying enzymes using switchSENSE <i>Irene Ponzo, Dynamic Biosensors</i>	15:00	Coffee Break + DBS Deep Dive DBS DEEP DIVE: 2 separate options to choose from and to participate in anytime during this time slot <i>#1: Deep Dive Engineering: tour through our workshop</i> <i>#2: Deep Dive Design: custom assays and custom methods</i>
10:20	Coffee Break	16:30	Biophysical techniques to investigate protein conformations in PPI drug discovery <i>Bruce Carrington, UCB Celltech, Slough</i>
10:50	Potency determination of mono- and multispecific binders using the switchSENSE technology <i>Matthias Knape, Boehringer Ingelheim, Biberach</i>	17:00	HOW TO... make use of the dynamic measurement mode <i>Ricarda Berger, Dynamic Biosensors</i>
11:20	Kinetic analysis of ternary and binary binding of the bispecific antibody Emicizumab <i>Stefanie Mak, Dynamic Biosensors</i>	17:15	A conformational-dependent intramolecular redox relay at the core of Protein Disulfide Isomerase activity <i>Eduardo Melo, CCMAR, Faro</i>
11:35	Biomolecular interaction analysis: protein kinases meet helix <i>Leopold Bott, University of Kassel, Kassel</i>	17:35	Detecting nucleotide-induced conformational changes with switchSENSE <i>Marija Markovic, Dynamic Biosensors</i>
11:50	Diversity of studies possible with the switchSENSE technology from small molecules to bicelles <i>Paloma Fernandez Varela, I2BC, Paris</i>	18:00	EAT&DRINK at Dynamic Biosensors <i>Perchtinger Str. 8, 81379 München</i>
12:10	HOW TO... fit kinetics data with heliOS <i>Adrian Walser, Dynamic Biosensors</i>		
12:25	Lunch		
13:40	DNA-based nanodevices for antibodies detection <i>Francesco Ricci, University of Rome, Roma</i>		

Friday, Sep. 09th

08:30	Coffee & Registration	11:20	HOW TO... prepare pure DNA-protein conjugates with the proFIRE <i>Sabrina Weber, Dynamic Biosensors</i>
09:00	Combining NMR, integrative structural biology and biophysical methods to study biomolecular recognition and dynamics <i>Michael Sattler, Technical University of Munich/ Helmholtz Zentrum Munich, München</i>	11:35	Building blocks for deciphering HIV bNabs binding dependence on antigen spatial arrangement <i>Iris Rocamonde Lago, Karolinska Institute, Stockholm</i>
09:30	Screening of small molecules binding to riboswitches <i>Mareike Weller, Dynamic Biosensors</i>	11:50	Visualizing CTCF DNA target search using high throughput single molecule imaging <i>Jonas Huber, Technical University of Munich, München</i>
09:45	Reverse transcription of an expanded genetic alphabet <i>Eva Hoffmann, University of Cologne, Köln</i>	12:05	Screening of PROTACs by a proximity induced binding assay <i>Alice Soldá, Dynamic Biosensors</i>
10:00	Interaction of T cell engaging molecules with their target cells <i>Susanne Dechantsreiter, Dynamic Biosensors</i>	12:20	Concluding remarks & end of meeting
10:15	Coffee Break		
10:50	Can we sense a switch in affinity of FANCD2-FANCI for DNA upon phosphorylation? <i>Stephen McLaughlin, MRC Laboratory, Cambridge</i>	14:00	Optional WORKSHOP: Do it yourself! Hands-on switchSENSE experimental training or heliOS advanced analysis training.