Optogenetics in Complex Systems
Symposium Agenda
26-28 October 2021 - all times in CEST

26 October		27 October		28 October	
13:30 - 14:00	**Wilfried Weber** University of Freiburg Title: Extracellular Optogenetics – Novel Opportunities in Cell Engineering	13:30 - 14:00	**Stefano De Renzis** **EMBL Heidelberg** Title: Desensitisation of Notch signalling through dynamic adaptation in the nucleus	13:30 - 14:00	**Harald Janovjak** Monash University **Title:** Optogenetic repair in a genetic model of Parkinson's disease
14:00 - 14:30	**Barbara Di Ventura** University of Freiburg **Title:** Bye bye L-arabinose drive	14:00 - 14:30	**Mary Dunlop** Boston University **Title:** Using light to control single-cell gene expression in bacteria	14:00 - 14:30	**Jamie Davies** University of Edinburgh **Title:** Opportunities for optogenetics in synthetic morphogenesis
14:30 - 14:45	Contributed Talk: **Sant Kumar,** ETH Zurich Cyberloop: an optogenetic platform for the the closed-loop feedback control of single cells	14:30 - 14:45	Contributed Talk: **Dirk Benzinger,** Francis Crick Institute Optogenetic gene regulatory networks for dynamic signal decoding	14:30 - 14:45	Contributed Talk: **Dimitrii Tanese**, Vision Institute Paris Two-photon holographic control of neuronal circuits
14:45 -15:15	**Interval**	14:45 -15:15	**Interval**	14:45 -15:15	**Interval**
15:15 - 15:45	**Matthieu Coppey** Institut Curie **Title:** How shall we perturb intracellular signaling with optogenetics?	15:15 - 15:45	**Jeff Tabor** Rice University **Title:** Engineering bacterial light sensors for reliable control of gene expression in stationary phase	15:15 - 15:45	**Sonja Kleinlogel** University of Bern **Title:** Opto-GPCRs: personalized optogenetics to restore vision
15:45 - 16:15	**Chandra Tucker** University of Colorado School of Medicine **Title:** Inducible control of protein assembly and activity using light and chemicals	15:45 - 16:15	**Andreas Möglich** University of Bayreuth **Title:** Light-regulated Gene Expression for Bacterial Biotechnology	15:45 - 16:15	**Matias Zurbriggen** University of Düsseldorf **Title:** Engineering photoreceptors into optogenetic tools for the control and understanding of cellular processes in microbial, animal and plant systems
16:15 - 16:30	**Interval**	16:15 - 16:30	**Interval**	16:15 - 16:30	**Interval**
16:30 - 17:00	**Seraphine Wegner** University of Muenster **Title:** Spatiotemporal control in synthetic and natural cells using light	16:30 - 17:00	**Klaus Michael Hahn** University of North Carolina **Title:** Controlling adhesion proteins with light - insights into allosteric optogenetic control	16:30 - 17:00	**Jared Toettcher** Princeton University **Title:** Shining a light on how signaling patterns control developmental cell fate
17:00 - 17:15	Contributed Talk: **Coralie Dessauge,** University of Bern Optogenetic interrogation of ERK dynamics identifies sources of MAPK signaling robustness	17:00 - 17:15	Contributed Talk: **Sara Dionisi,** ETH Zurich Implementation of a novel orthogonal optogenetic tool in mammalian cells	17:00 - 17:15	Contributed Talk: **Uriel Urquiza-Garcia**, University of Düsseldorf Functional Characterization of a plant optogenetic system under natural light conditions
17:15 - 17:30	**Interval**	17:15 - 17:30	**Interval**	17:15 - 17:30	**Interval**
17:30 - 18:30	**Meet the Speakers**	17:30 - 18:30	**Meet the Speakers**	17:30 - 18:30	**Meet the Speakers**