

EPFL Bioengineering Day 2017

- (ETH) Basel meets (EPF) Lausanne -

SwissTech Convention Center, EPFL, Friday, November 24, 2017, 10h-19h

10:00	Bruno Correia (EPFL) and Sai Reddy (ETH)	<i>Welcome, Opening Words</i>
10:05	Michael Nash (ETH)	<i>Genetically Programmed Auto-Encapsulation of Single Cells in Synthetic Hydrogel-Shells for Directed Evolution of Biocatalysts</i>
10:25	Patrick Barth (EPFL)	<i>Protein Design for Cell Engineering</i>
10:45	Ulrike Menzel (ETH)	<i>Understanding Principles of Antibody Repertoire Structure for Immune Prediction and Engineering</i>
11:00	Petra C. Schwalie (EPFL)	<i>A Stromal Cell Population that Inhibits Adipogenesis in Mammalian Fat Depots</i>
11:15	<i>coffee break</i>	
11:45	Kyle M. Douglass (EPFL)	<i>Democratizing the Super-Resolution Microscope</i>
12:05	Periklis Pantazis (ETH)	<i>Primed Conversion: the New Kid on the Block for Photoconversion</i>
12:25	Selman Sakar (EPFL)	<i>Body Plan and Locomotor Biomechanics at Small Scale</i>
12:40	David Martinez-Martin (ETH)	<i>Tracking a Cell's Mass in Real Time</i>
13:00	Lunch Buffet – Poster Session – mini-talks (10') by ETH and EPFL Master students	
14:30	Petra Dittrich (ETH)	<i>Microfluidic Devices for High-Throughput Cell Analysis</i>
14:50	Alex Persat (EPFL)	<i>Bacteria with a Sense of Touch</i>
15:10	Dordaneh Etezadi (EPFL)	<i>Nanoplasmonic Mid-Infrared Biosensor for Ultrasensitive Protein Secondary Structure Detection</i>
15:25	Adrian Nievergelt (EPFL)	<i>A Gentle High-Speed Atomic Force Microscope for Real-Time Visualization of Weak Protein Interactions</i>
15:40	<i>coffee break</i>	
16:10	Randall Platt (ETH)	<i>In vivo Genome Editing with CRISPR-Cas Systems</i>
16:30	Diego Ghezzi (EPFL)	<i>Organic Neuroprosthetics for Vision Restoration</i>
16:50	Armin Baumschlager (ETH)	<i>Dynamic Light-Inducible T7 RNA Polymerases (Opto-T7RNAPs) for Spatiotemporal Gene Expression Control in Cybergenetics</i>
17:05	Ferdinand Sedlmayer (ETH)	<i>Engineering of Programmable Anti-Infective Gene Circuits for Cell-Based Pathogen Attenuation</i>
17:20	Jeffrey Hubbell and Melody Swartz Young Bioengineer Award ceremony	
17:30	<i>Networking, beer & wine, food, music</i>	
19:00	<i>Chartered bus transport to Basel for participants from ETH</i>	

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mini-talks by ETH and EPFL undergrads in SwissTech's main hall

- 13:00** Moritz Durtschi (EPFL) *Using DNA Nanotechnology as a Molecular Ruler to Calibrate High-Speed Atomic Force Microscopes*
- 13:15** Freyr Sverrisson (EPFL) *Teaching Old Folds New Tricks - Computational Design to Repurpose Protein Function*
- 13:30** Simon Meng (ETH) *Directed Evolution and Protein Engineering in Mammalian Cells*
- 13:45** Samer Bekhazi (EPFL) *Development of Automated Trajectory Mapping Approaches for Single Cell Analysis*
- 14:00** Lisa Dratva, Lena Bruhin and Malek Kabani (EPFL 2017 iGEM team) *Aptasense: a Cell-Free Biosensor*