

Thursday, August 29, 2024

| | | |
|-------|--|--|
| 09:00 | Sylvie Roke , Institute Director (EPFL, CH) | welcome, opening words |
| 09:10 | Jeffrey A. Hubbell (U Chicago, USA) | <i>Immunoengineering to Make and Break Tolerance</i> |
| 09:55 | Daan Frenkel (U Cambridge, UK) and Maartje M.C. Bastings (EPFL, CH) | <u>double-speaker talk:</u> <i>Super-Selective Biomaterials in Action: From 2D Crystals to Immune Communication</i> |
| 10:50 | | coffee & posters |
| 11:20 | Kislon Voitchovsky (Durham University, UK) | <i>Nanoscale Tracking of Molecules and Ions at Biointerfaces: From Individual Diffusion to Correlative Group Effects</i> |
| 11:50 | Sylvie Roke (EPFL, CH) | <i>Wonderful Water</i> |
| 12:20 | Chan Cao (U Geneva, CH) | <i>Nanopore for Single-Molecule Analysis</i> |
| 12:50 | | lunch & posters |
| 14:20 | Ralf Jungmann (LMU Munich, DE) | <i>Localizomics: Towards Spatial Omics Using DNA-Based Super-Resolution Microscopy</i> |
| 15:05 | Maria Brbic (EPFL, CH) | <i>Towards AI-driven Discoveries in Single-cell Genomics</i> |
| 15:35 | Special 'Jeffrey Hubbell and Melody Swartz Young Bioengineer Award' session featuring four finalists (IBI doctoral students or postdocs) | <i>speakers and titles tba</i> |
| 16:35 | | coffee & posters |
| 17:05 | William F. DeGrado (UC San Francisco, USA) | <i>De Novo Design of Protein Switches, Catalysts and Therapeutics</i> |
| 17:50 | | <i>end of sessions (day one)</i> |
| 18:00 | | apéritif, barbecue and outdoor party |
| 22:00 | | <i>end (day one)</i> |

Friday, August 30, 2024

| | | |
|-------|---|---|
| 09:00 | Matteo Dal Peraro , Institute Director (EPFL, CH) | opening words (day two) |
| 09:05 | Melody A. Swartz (U Chicago, USA) | <i>title tba</i> |
| 09:50 | Sai Reddy (ETHZ, Basel, CH) | <i>Next-Generation Protein Engineering of Immune Receptors</i> |
| 10:20 | | coffee & posters |
| 10:50 | Molly Stevens (Imperial College, London, UK) | <i>Engineering the Bio-Material Interface for Advanced Therapeutics and Ultrasensitive Biosensing</i> |
| 11:35 | Arianna Mencias (Scuola Superiore Sant'Anna, Pisa, IT) | <i>Biomedical Application of Soft Robotics</i> |
| 12:20 | Giovanni D'Angelo (EPFL, CH) | <i>Atlasing Lipid Metabolism</i> |
| 12:50 | | lunch & posters |
| 14:20 | | annual Award ceremony |
| | | Jeffrey Hubbell and Melody Swartz Young Bioengineer Award Lebowski/Lebowska Awards |
| 14:40 | Matthias Lutolf (EPFL, Lausanne & Roche, Basel, CH) | <i>Engineering Organoids</i> |
| 15:25 | Nathalie Brandenburg (SUN bioscience & Doppl SA, Lausanne, CH) | <i>Organoids in Drug Discovery and Personalised Medicine</i> |
| 15:55 | David Baker (U Washington, USA) | <i>Protein Design Using Deep Learning</i> |
| 16:40 | Sylvie Roke , Institute Director (EPFL, CH) | closing words, farewell |
| 16:50 | | <i>end of symposium</i> |