

# EPFL Bioengineering Day 2022

– SwissTech Convention Center, EPFL, Friday, December 2, 2022, 13:00 till 22:00 –

## *“Engineering as an Enabling Discipline in Cancer Research, Diagnosis and Treatment”*

**13:00** Christoph Merten, EPFL Institute of Bioengineering (BioE Day Chairman) *Welcome, Opening Words*

**13:10** Keynote – Susan Thomas, Georgia Tech, Atlanta, GA (USA) *Engineered Biomaterials for Lymph Node Drug Delivery and Disease Modeling Enable Next-Gen Approaches in Cancer Immunotherapy*

**Research Highlights** presented by ‘Jeffrey Hubbell and Melody Swartz Young Bioengineer Award’ finalists:

**14:05** Tamara Rossy *P. aeruginosa Contracts Mucus to Rapidly Form Biofilms in Tissue-Engineered Human Airways*

**14:20** Lucio Pancaldi *Flow-Driven Navigation of Microengineered Endovascular Devices*

**14:35** Kewen Lei *Leveraging T Cell Force to Fight Cancer*

**14:50** Keynote – Charles Baroud, Ecole Polytechnique & Institut Pasteur, Paris (FR) *Decoding Collective Immune-Cancer Interactions Using a Microfluidic 3D Culture Approach*

**15:45** Posters, Coffee & Cookies

**16:15** George Coukos, Ludwig Institute for Cancer Research (Lausanne Branch) *Overview of EPFL-Ludwig Engineering in Immune Oncology CATALYST*

**Research Highlights** presented by ‘Jeffrey Hubbell and Melody Swartz Young Bioengineer Award’ finalists:

**16:35** Saranya Pullanchery *Hydrophobicity: How Water Imparts a Negative Charge to Hydrophobic Surfaces*

**16:50** Wanze Chen *Temporal Transcriptomic Recording of Single Cells Using Live-seq*

**17:05** Yuqing Xie *Toward Superior Cancer Immunotherapy Through Engineering Cell-Communication*

**17:20** Keynote – Moritz Gerstung, EBI Hinxton (UK) & DKFZ Heidelberg (DE) *Learning How Cancers Grow*

**18:15** Posters and Drinks

**19:15** Annual Ceremony: Hubbell-Swartz Award / EDBB Distinctions / Poster Prize / Toasts to IBI faculty

**19:30** Posters and Food: buffet, beer & wine, party time with DJs Vincent & Toscan (till 22:00)