

- 9:45am | **Welcoming remarks:** Arthur Lander & Alexander Hoffmann
- 10:00am | **Session I** chaired by Matteo Pellegrini - *Transcriptional & Epigenetic Control*
- . Remo Rohs, USC: *Deep learning Methods Reveal Mechanisms of Protein-DNA Binding*
 - . Jin Yu, UC Irvine: *Modelling Transcription Protein Machinery*
 - . Christopher Benner, UC San Diego: *Deciphering the cis-regulatory grammar of transcription initiation*
 - . Sergio Branciamore, City of Hope: *Evolution of heteromorphic sex chromosomes driven by stochastic epigenetic modification*
- 11:00am | **Coffee break**
- 11:30am | **Session II** chaired by Aaron Meyer - *Multiscale Dynamics*
- . Roya Zandi, UC Riverside: *Virus Assembly Pathways inside a Host Cell*
 - . Max Wilson, UC Santa Barbara: *Optogenetic control of cellular signaling through dynamic nucleation of liquid droplets*
 - . Michael Elowitz, Cal Tech: *Multicellular circuit design: natural and synthetic*
 - . Venugopala (Reddy) Gonehal, UC Riverside: *Multiscale analysis of mechanisms of the robustness of stem cell maintenance*
- 12:30pm | **Lightning Talks - Session I**
- Supriyo Bhattacharya, City of Hope – Yuxuan Du, USC – Gaurav Mendiratta, Salk Institute for Biological Studies – Breanne Sparta, UCLA – Vincent Zaballa, UC Irvine
- 12:45pm | **Lunch and Poster Session I (Posters 1-37)**
- 2:00pm | **Keynote Speaker:** Uri Alon, Weizmann Institute of Science: *Design principles of physiological circuits*
- 2:30pm | **Session III** chaired by Jennifer Wilson - *Heterogeneity*
- . Helen Goodridge, Cedars-Sinai, *Defining monocyte heterogeneity and origins by scRNAseq*
 - . Zhaohui Gu, City of Hope: *Dissecting the Heterogeneity of B-cell Acute lymphoblastic leukemia*
 - . Stephanie Fraley, UC San Diego: *Identifying regulators of breast cancer heterogeneity through phenotype guided single cell sequencing*
 - . Suzanne Sindi, UC Merced: *Using Slack Reactants to Calculate First-Arrival Times in Stochastic Protein Aggregation Biochemical Kinetics*
- 3:30pm | **Coffee break**
- 4:00 pm | **Session IV** chaired by Eric Deeds - *Dynamics and AI*
- . Aaron Meyer, UCLA: *Mechanistic and Data-Driven Dissection of Cell Communication Through Tensor Methods*
 - . Rose Yu, UC San Diego: *Bridging data-driven and physics-based methods for learning dynamical systems*
 - . Christopher Miles, UC Irvine: *Learning the biophysical mechanisms of mitosis from spatiotemporal trajectories*
 - . Nandita Garud, UCLA: *Evolutionary dynamics in the human gut microbiome from infancy through adulthood*
- 5:00pm | **Lightning Talks - Session II**
- Mohammadali Alidoost, UCLA – Sreejith Santhosh, UC San Diego – Hui (Karen) Xiao, UC Irvine – Alexander Xu, Cedars-Sinai – Lorenzo Scipioni, UC Irvine – Aqib Hasnain, UC Santa Barbara
- 5:15pm | **Reception and Poster Session II (Posters 38-76)**
- 6:15pm | **Uri Alon Guitar Talk**