Caltech
Student-Faculty Programs

Biology

Session B

Room: 109 Jorgensen

1:00 - 1:20 PM	***Christopher H. Leung*** University of Cambridge *Caltech-Cambridge Exchange*	Mathematical models of flexible neuronal participation	Carlos Lois *Research Professor of Biology*
1:20 - 1:40 PM	***Reina E. Li*** Caltech *Ernest H. Swift SURF Fellow*	Adaptation of sympathetic nervous system in pregnancy	Yuki Oka *Professor of Biology; Investigator, Heritage Medical Research Institute* Wongyo Jung *Graduate Student in Neurobiology*
1:40 - 2:00 PM	***Zhicheng Jiang*** Fudan University *VURP Fellow*	Dissecting the neural circuitry of stress-induced gastrointestinal dysmotility	Yuki Oka *Professor of Biology; Investigator, Heritage Medical Research Institute* Bochuan Teng *Postdoctoral Scholar Research Associate in Biology and Biological Engineering*
2:00 - 2:20 PM	***Y Lam Voong*** Pasadena City College *Center for Evolutionary Science EVO-WAVE Fellow*	Adapting pharmaceuticals for *in vivo* manipulations of rove beetle chemoreceptors	Joseph Parker *Professor of Biology and Biological Engineering* Hayley Smihula *Graduate Student in Neurobiology*
2:20 - 2:40 PM	***Conner I. Sakae*** University of California, Los Angeles *Amgen Scholar*	Establishing genetic methods for chemoreceptor manipulation in rove beetles	Joseph Parker *Professor of Biology and Biological Engineering* Hayley Smihula *Graduate Student in Neurobiology*
2:40 - 2:50 PM	***BREAK***		
2:50 - 3:10 PM	***Jayden D. Lee*** University of California, San Diego	Chromatin accessibility and cofactor rules predict Runt regulatory behavior of the upstream *net* enhancer	Angelike Stathopoulos *Professor of Biology* Isaryhia M. Rodriguez *Graduate Student in Biology*
3:10 - 3:30 PM	***Krish U. Raval*** University of California, Berkeley	Mapping regulatory networks underlying glioblastoma treatment resistance using network inference modeling of spatially resolved CRISPR perturbations	Matthew W. Thomson *Professor of Computational Biology; Investigator, Heritage Medical Research Institute*

3:30 - 3:50 PM	***Edmund Tsou*** Johns Hopkins University *Amgen Scholar*	CellSAM3: A promptable foundation model for cell segmentation and tracking	David A. Van Valen *Assistant Professor of Biology and Biological Engineering; Investigator, Heritage Medical Research Institute; HHMI Freeman Hrabowski Scholar* Ross Barnowski *Software Engineer in Biology and Biological Engineering*
3:50 - 4:10 PM	***Zhenxi Yuan*** Rice University *VURP Fellow*	TMED8 selectively promotes kappa opioid receptor biogenesis	Rebecca M. Voorhees *Professor of Biology and Biological Engineering; HHMI Freeman Hrabowski Scholar* Aline Milach Teixeira *Graduate Student in Chemical Engineering*
4:10 - 4:30 PM	***Ian M. Mathews*** Vanderbilt University *Center for Environmental Microbial Interactions (CEMI)* *WAVE Fellow*	Single-step megabase addition and replacement in bacteria via conjugative CRISPR-associated transposition	Kaihang Wang *Assistant Professor of Biology and Biological Engineering* Raymond Zhang *Postdoctoral Scholar Research Associate in Biology and Biological Engineering*
4:30 - 4:50 PM	***Faith M. Rosas*** California State Polytechnic University, Pomona *WAVE Fellow*	Using the Electrophoretic Mobility Shift Assay (EMSA) to test direct DNA binding in dArc1 autoregulation	Kai G. Zinn *Howard and Gwen Laurie Smits Professor of Biology* Peter H. Lee *Research Scientist in Biology*