IBSB 2018 AGENDA BOSTON UNIVERSITY

EICHENBAUM COLLOQUIUM ROOM

CENTER FOR INTEGRATED LIFE SCIENCE AND ENGINEERING (CILSE) 610 COMMONWEALTH AVENUE, BOSTON, MA

Sunday, July 15

3:30 – 5:30 Poster Session (EVEN numbers)

5 pm - 7 pm Reception, CILSE Patio		
Monday, Jul 8:30	y 16 BREAKFAST (CILSE Lobby)	
9:15	OPENING REMARKS Professor Thomas D. Tullius Director, Bioinformatics Graduate Program, Boston University	
SESSION I 9:30	Know thy cells: the classification of tumor models by tissue, disease and sex Heather Selby, Boston University	
10:00	A fluctuation theorem for time series of signal-response models with the backward transfer entropy Andrea Auconi, Humboldt University Berlin	
10:30	SIMPLE: sparse interaction model over peaks of molecules for fast, interpretable metabolite identification from tandem mass spectrometry Dai-Hai Nguyen, Kyoto University	
11:00	BREAK	
11:15	A mathematical model of proteome allocation in cyanobacteria to study regulation of phototrophic growth Marjan Faizi, Humboldt University Berlin	
11:45	Derivation of a bronchial airway gene expression signature associated with FEV_1 Decline Elizabeth Becker, Boston University	
12:15	Leveraging phylogeny tree information for somatic mutation calling Takuya Moriyama, University of Tokyo	
12:45	BREAK	

24 Cummington Mall, Life Science and Engineering Building (LSEB Lobby)

Tuesday, July 17

8:30	BREAKFAST (CILSE Lobby)
SESSION II 9:30	Discriminative models between normal and tumor immunity against repertoire sequences using convolutional neural networks Hiroki Konishi, University of Tokyo
10:00	Long noncoding RNA (IncRNA)-Protein coding gene (PCG) regulatory networks responsive to diverse xenobiotics in rat liver Kritika Karri, Boston University
10:30	Reverse engineering of neuroblastoma signaling networks Mathurin Dorel, Charité University Medicine & Humboldt University
11:00	BREAK
11:15	Correlating microbial associations for the microbial interaction network database Dileep Kishore, Boston University
11:45	Development of viral genome classification method based on sequence similarity Megumi Kuronishi, Kyoto University
12:15	POSTER SESSION & LUNCH (ODD numbers) 24 Cummington Mall, Life Science and Engineering Building (LSEB Lobby)
SESSION III 3:00	(Session Chair: G. Benson) Single cell analysis reveals All-or-None G1 arrest decisions upon TGFβ stimulation Guoyu Wu, Max Planck Institute for Molecular Genetics, Berlin
3:30	Identifying minimal predictive networks from random forests with BowSaw Demetrius DiMucci, Boston University
5:00	Clambake Bus leaves 24 Cummington Mall for ferry to Spectacle Island

Wednesday, July 18

9:30	BREAKFAST
SESSION IV 10:00	Elucidating the gene-regulatory network in X-chromosome inactivation Verena Mutzel, Max Planck Institute for Molecular Genetics, Berlin
10:30	Pan-cancer module network analysis for identifying dominating networks across human cancers Chun-Yu Lin, JSPS Postdoctoral Fellow, Kyoto University
11:00	BREAK
11:15	3D centroid extraction of primary mesenchyme cells in confocal images Dakota Hawkins, Boston University
11:45	Co-existing feedback loops generate tissue-specific circadian rhythms Patrick Pett, Humboldt University Berlin
12:15	BREAK
SESSION V	
3:30	(Session Chair: G. Benson) Genomic characterization of Medusavirus, a new giant virus infecting Acanthamoeba Genki Yoshikawa, Kyoto University
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3:30 4:00	Genomic characterization of Medusavirus, a new giant virus infecting Acanthamoeba Genki Yoshikawa, Kyoto University Single cell gene expression in the cell cycle Daniel Schwabe, Max Delbrück Center for Molecular Medicine Principles of cooperative transcription factor binding revealed by nextPBM