

A virtual conference on Quantitative Biology

hosted by the NCI/UMd Partnership in Integrative Cancer Biology

Wednesday July 29th 2020

Webcast: https://nci.rev.vbrick.com/#/webcasts/q-bio2020

8:30am – 8:45am (Time zone: UTC-05:00 Eastern Time – USA & Canada). Introduction – Welcome

8:45am – 10:30am (Time zone: UTC-05:00 Eastern Time – USA & Canada) Session I: Machine Learning and Quai

Chao Tang (Peking University Fargung Chao) "Pancreatic α and β cells are globally phase-locked"

Paul François (McGill University – Montréal QC – Canada) "Robotic mapping and generative modelling of cytokine response"

Lucy Colwell (Google Research - Cambridge UK) "Deep learning for protein design"

10:30am – 1:00pm (Time zone: UTC-05:00 Eastern Time – USA & Canada) Session II: Systems Microbiology & Synthetic Ecology

Ophelia Venturelli (University of Wisconsin – Madison WI – USA)
"Building microbial communities to understand and predict dynamics and functions"

Claude Loverdo (Institut de Biologie Paris-Seine – Paris, France) "Interactions of antibodies and bacteria in the digestive tract"

Ahmad (Mo) Khalil (Boston University – Boston MA – USA)

"Cooperativity and the design of genetic regulatory circuits"

Ido Golding (UIUC - Urbana-Champaign IL - USA)

"Measuring transcription at a single gene copy reveals hidden drivers of bacterial individuality"

Carolina Tropini (UBC - Vancouver BC - Canada)

"Dynamics of microbiota communities during physical perturbation"

l:00pm – l:45pm (Time zone: UTC-05:00 Eastern Time – USA & Canada) Keynote seminar

Jennifer Lippincott-Schwartz (HHMI Janelia Research Campus – Leesburg VA – USA) "Imaging Interacting Organelles to Understand Metabolic Homeostasis"

1:45pm – 2:00pm (Time zone: UTC-05:00 Eastern Time – USA & Canada). Closing remarks & tips for q-Bio'2021

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