2021 Broad Institute

BROAD

Next Generation in Biomedicine Symposium

January 27-28, 2021

WEDNESDAY, JANUARY 27

12:00 PM	Day I		Tadd	Calub
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12:10 PM Cancer & Immunology Session I

Moderator: Ramnik Xavier

Metabolic contribution of neurons, via peripheral axons, to pancreatic tumorigenesis

Robert Banh

Recoding commensal-immune communication for cancer immunotherapy

Yiyin Erin Chen

The airway microbiome and inflammation in asthma phenotype

Ariangela J. Kozik

1:10 PM Spatial Chat with Cancer & Immunology Session I speakers: broad.io/nextgenchat

1:30 PM Cancer & Immunology Session II

Moderator: Robert Manguso

Developing personalized treatment strategies which minimize the emergence of antibiotic

resistance

Mathew Stracy

Hijacking host motor proteins for viral entry

Chelsey Cierra Spriggs

EcDNA hubs drive cooperative intermolecular oncogene expression

Kathryn Yost

2:30 PM Spatial Chat with Cancer & Immunology Session II speakers: broad.io/nextgenchat

2:45 PM **Neuroscience**

Moderator: Morgan Sheng

A ventrolateral medulla-midline thalamic circuit for hypoglycemic feeding

Sofia Beas

Risk factors for aging and Alzheimer's disease in Blacks

Kacie Deters

Neuroimmune circuits regulate intestinal immune-metabolic homeostasis

Jhimmy Talbot

3:45 PM Day I Closing: Todd Golub

3:45 PM Spatial Chat with Neuroscience Session speakers: broad.io/nextgenchat

THURSDAY, JANUARY 28

4:20 PM

Day II Opening: Todd Golub 12:00 PM 12:05 PM Tools & Technology Session I Moderator: Fei Chen Synthetic recording of cell lineage and molecular history with image based readout Amjad Askary Molecular programming using de novo designed proteins Zibo Chen Radiogenomics data integration for predictive oncology Mireia Crispin-Ortuzar Spatial Chat with Tools & Technology Session I speakers: broad.io/nextgenchat 1:05 PM **Tools & Technology Session II** 1:25 PM Moderator: Xiao Wang Programmable transcriptional memory by CRISPR-based epigenome editing James Nuñez Functional and antigenic evolution of the SARS-CoV-2 receptor-binding domain Tyler Starr Kethoxal-assisted profiling of transcription dynamics and RNA-RNA interactions Tong Wu Spatial Chat with Tools & Technology Session II speakers: broad.io/nextgenchat 2:25 PM **Chemical Biology** 2:40 PM Moderator: Bridget Wagner Engineering biological functions with synthetic protein switches Xin Zhou Sensory mechanisms underlying feeding regulation Ling Bai Structural insights into the analgesic drug target TRPM8 Melinda Diver Chemical genetic assessment of tyrosine kinase signaling in the animal stem lineage Florentine Rutaganira A chemical strategy for brain-specific inhibition of mTOR Ziyang Zhang 4:20 PM Day II Closing: Todd Golub

Spatial Chat with Chemical Biology Session speakers: broad.io/nextgenchat