



Daniel Palanker



Naima Sharaf



Ron Kopito



Ayelet Voskoboynik



Danielle Mai



Carolyn Rodriguez



Lauren Goins



Scott Owen



Justin Annes



Judith Shizuru



Michelle Monje



Brad Zuchero



2023 Stanford Bio-X Undergraduate Summer Research Program Cohort

STANFORD BIO-X UNDERGRADUATE SUMMER RESEARCH PROGRAM

Wednesday Talks:

June 26 through August 28, 2024

Talks are 12:00-1:00PM - Clark Center Auditorium
Followed by an interactive lunch between faculty and students

June 26

Daniel Palanker (Ophthalmology): Photovoltaic Restoration in Retinal Degeneration

Naima Sharaf (Biology): Lipoproteins of Gram-Negative Bacteria

Ron Kopito (Biology): Quality Control

July 3

Ayelet Voskoboynik (Biology): Botryllus schlosseri, a Model Organism for the Study of the Evolution of Stem Cell Mediated Regeneration and Self/Non Self Recognition

Danielle Mai (Chemical Engineering): Enzyme-Driven Phase Changes of Elastin-Like Polypeptides

Carolyn Rodriguez (Psychiatry & Behavioral Sciences - Public Mental Health & Population Sciences): Mechanisms and Modulation of Compulsive Behaviors

July 10

Lauren Goins (Developmental Biology): Studying Blood Cell Development Live and in Color!

Scott Owen (Neurosurgery): Neuromodulation of Cognitive Function in the Basal Ganglia

Justin Annes (Medicine - Endocrinology): Physician Scientist Endo(Onc)ology: From Animal Disease Models to Drug Development

July 17

Judith Shizuru (Medicine - Blood & Marrow Transplantation): Blood Stem Cell Transplantation

Michelle Monje (Neurology): The Neuroscience of Brain Cancer

Brad Zuchero (Neurosurgery): What Do Glia Do? An Intro to My Favorite Cell Types

July 24

Lucy O'Brien (Molecular & Cellular Physiology): Building an Organ for the Long Haul: Theseus' Paradox, One Cell at a Time

Jeffrey L. Goldberg (Ophthalmology): Neuroprotection: Bench to Clinic

E.J. Chichilnisky (Neurosurgery and Ophthalmology): High-Fidelity Artificial Retina for Vision Restoration, Science, and Augmentation

July 31

Helen Blau (Microbiology & Immunology - Baxter Laboratory): Targeting a Gerozyme to Improve Muscle Function and Extend Healthspan

Vivek Buch (Neurosurgery): Developing the Surgeon-Machine Interface

Jason Tucciarone (Psychiatry & Behavioral Sciences - General Psychiatry & Psychology): Uncovering Novel Mechanisms Leading to Opioid Withdrawal

August 7

Craig Levin (Radiology - Molecular Imaging Program at Stanford/Nuclear Medicine): Biological Multiplexing with Positron Emission Tomography

William Talbot (Developmental Biology): Using Zebrafish to Investigate the Vertebrate Nervous System

Crystal Mackall (Pediatrics - Hematology & Oncology and Medicine - Blood & Marrow Transplantation): Developing CAR T Cells for Cancer

August 14

Yanmin Yang (Neurology): Targeting Tau Propagation in Alzheimer's Disease

Nidhi Bhutani (Orthopaedic Surgery): Epigenetic Regulation of Cell Fate and Function

Laura Prolo (Neurosurgery): Circadian Rhythms in Pediatric High-Grade Gliomas

August 21

Thomas Clandinin (Neurobiology): How Does the Brain Guide Behavior?

Claudia Padula (Psychiatry & Behavioral Sciences - Public Mental Health & Population Sciences): Neuromodulation of Brain Circuits Implicated in Addiction

Paul Cheng (Medicine - Cardiovascular Medicine): From Big Data to Single Cells - Unlocking Pathophysiology from Human Variations

August 28

Zev Bryant (Bioengineering): Making, Measuring, and Modeling Macromolecular Machines

Rogelio Hernández-López (Bioengineering and Genetics): Engineering T Cells to Kill Cancer

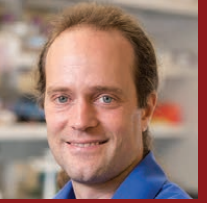
Sarah Heilshorn (Materials Science & Engineering): Designer Materials for Tissue Engineering



Sarah Heilshorn



Rogelio Hernández-López



Zev Bryant



Paul Cheng



Claudia Padula



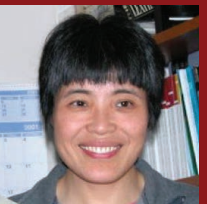
Thomas Clandinin



Laura Prolo



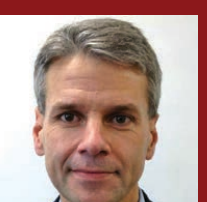
Nidhi Bhutani



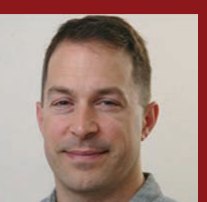
Yanmin Yang



Crystal Mackall



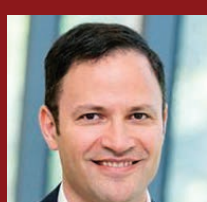
William Talbot



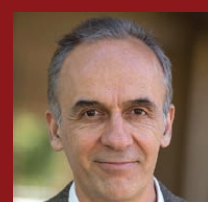
Craig Levin



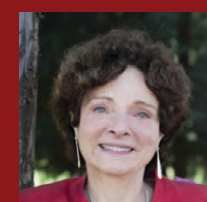
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