STANFORD BIO-X UNDERGRADUATE SUMMER RESEARCH PROGRAM

Wednesday Talks: June 23 through August 25, 2021

Talks start at 11:30AM - via Zoom
CLICK TO JOIN: biox.stanford.edu/usrp2021facultytalks

STANFORD BIO-X

June 23

**Anna Gloyn** (Pediatrics - Endocrinology & Diabetes): The Genetics of Diabetes: Sweet Dreams & Nightmares

**Craig Levin** (Radiology): High Spatial Resolution Position Emission Tomography (PET) Imaging Systems Under Development at Stanford

**Sarah Heilshorn** (Materials Science & Engineering): Biomaterials Design for Regenerative Medicine

June 30

**Anca Pasca** (Pediatrics - Neonatal & Developmental Medicine): Identification of Therapeutic Targets for Brain Injury of Prematurity

**Laramie Duncan** (Psychiatry & Behavioral Sciences): Genetics and Mental Health

**Marlene Rabinovitch** (Pediatrics - Cardiology): Converging Pathways Inform New Therapies for Pulmonary Arterial Hypertension

July 7

**Anshul Kundaje** (Genetics and Computer Science): Deep Learning the Regulatory Code of the Human Genome

**Michael Howitt** (Pathology and Microbiology & Immunology): Acquiring a Taste for Parasites: Chemosensory Tuft Cells in Shaping Intestinal Immunity

**Erinn Rankin** (Radiation Oncology and Obstetrics & Gynecology): Targeting the Tumor Microenvironment in Ovarian Cancer

July 14

**Laura M. K. Dassama** (Chemistry): Chemical Biology Approaches to Tackle Genetic Blood Disorders

**Thomas Quertermous** (Medicine - Cardiovascular Medicine): Genetic and Genomic Approaches to Understanding Congenital Heart Disease

**Emmanuel Mignot** (Psychiatry & Behavioral Sciences): Narcolepsy and the Art of Not Letting Sleeping Dogs Lie

July 21

**Anshuman Satpathy** (Pathology): Cancer Immunotherapy and the Next Generation of Cancer Therapies

**Jason Andrews** (Medicine - Infectious Diseases): Tracking the Emergence and Global Spread of Antimicrobial-Resistant Typhoid

**Paul Bollyky** (Medicine - Infectious Diseases and Microbiology & Immunology): Bacteriophage Therapy

July 28

**Claudia Petritsch** (Neurosurgery): A Journey Across Species: How Studying Cell Fate Decisions in Flies and Mice Led to a Better Understanding of Human Brain Cancer

**Maria Grazia Roncarolo** (Pediatrics - Stem Cell Transplantation and Medicine - Blood & Marrow Transplantation): Genetic Engineering of T Cells for Immune Tolerance

**Henry C. Lee** (Pediatrics - Neonatal & Developmental Medicine): Research and Quality Improvement to Advance Neonatal Health Equity

August 4

**Kari Nadeau** (Medicine and Pediatrics - Allergy & Clinical Immunology): Signaling Pathways in the Pathogenesis and Treatment of COVID

**Robert M. Waymouth** (Chemistry): New Materials for Gene Delivery: From Chemistry to Biology

**Boris Heifets** (Anesthesiology, Perioperative & Pain Medicine): Deconstructing Powerful Psychotropic Drugs to Make Better Medicines

August 11

**Wah Chiu** (Photon Science Directorate, Bioengineering, and Microbiology & Immunology): Seeing Molecular Machines by CryoEM

**William Weis** (Structural Biology, Photon Science Directorate, and Molecular & Cellular Physiology): How Do Mechanical Forces Regulate Molecular Functions in Cells and Tissues?

**Katherine Ferrara** (Radiology): Adeno Associated Viruses Deliver to Specific Organ and Cells Subsets

August 18

**Matthew Wheeler** (Medicine - Cardiovascular Medicine): From One to 8 Billion: Scale and Generalizability in Human Subjects Research

**Casey Gifford** (Pediatrics - Cardiology): Getting to the Heart of the Matter: Congenital Heart Disease and Complex Genetics

**Anthony Wagner** (Psychology): The Cognitive Neuroscience of Remembering

August 25

**Stephen Quake** (Bioengineering and Applied Physics): The Cell Is a Bag of RNA

**Euan Ashley** (Medicine - Cardiovascular Medicine, Genetics, and Biomedical Data Science): Your Heart Counts

**Chaitan Khosla** (Chemical Engineering and Chemistry): The Chemical Biology of Celiac Disease