BD2K-LINCS Data Coordination and Integration Center

lincs-dcic.org

PRESENTATION SESSION '19

*Featuring the research projects of the 2019 BD2K-LINCS Summer Research Fellows training in the **Ma'ayan Lab**, Icahn School of Medicine at Mount Sinai*

Join us on Thursday, August 8th at 10:00 AM, Annenberg Building, 19th Floor, Conference Room 19-79

Big Data to Knowledge (BD2K) Summer Research Training Program in Biomedical Big Data Science

*BD2K-LINCS Summer Research Fellows training in the **Ma'ayan Laboratory** conduct faculty-mentored independent research projects in the following areas:*

- **Data Harmonization**
- **Machine Learning**
- **Cloud Computing**
- **Dynamic Data Visualization**

@MAAYANLAB @BD2KLINCSDCIC AVIMAAYAN BD2K-LINCS DCIC

Icahn School of Medicine at Mount Sinai

Center for Bioinformatics

IDG — ILLUMINATING the DRUGGABLE GENOME

BD2K - LINCS DATA COORDINATION AND INTEGRATION CENTER

labs.icahn.mssm.edu/maayanlab/summer-research-program/

AGENDA

10:00 – 10:05 AM: Avi Ma'ayan PhD
INTRODUCTION

10:05 – 10:15 AM: Damon Pham
Gene Set Enrichment Analysis with Deep Learning

10:15 – 10:25 AM: Zaire Bryant
Global Analysis of Gene Sets and Signatures Associated with Senescence

10:25 – 10:35 AM: Justin Williams
Drug Repurposing Strategies for Alzheimer's Disease

10:35 – 10:45 AM: Allison Seiden
Analysis of Gene Sets Extracted from a GWAS of the UK Biobank

10:45 – 10:55 AM: David Szanto
Web and Mobile App for Predicting Physiological Age from Lab Tests and Vital Signs

10:55 – 11:05 AM: Samuel Maltz
Gene Expression Imputations with the Latent Space of RNA-seq Data from ARCHS4

11:05 – 11:15 AM: Alessandra LaRocco
Predicting Novel Targets and Drugs to Induce Autophagy

11:15 – 11:25 AM: Andrew Warburton
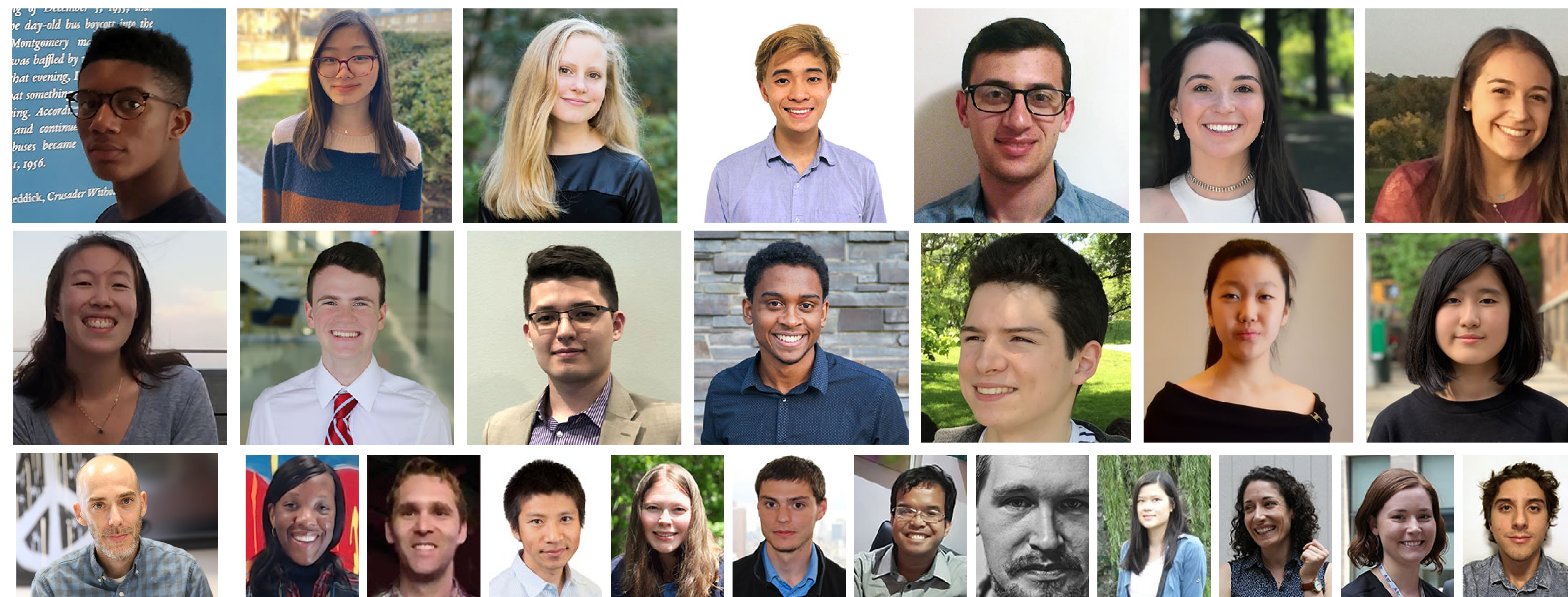**Collections of Disease and Drug Centric Signatures and Gene Sets**

11:25 – 11:35 AM: Ingrid Shu
KEA3: Kinase Enrichment Analysis 2019 Update

11:35 – 11:45 AM: Justin Williams
A System to Transform the Scientific Review Process

11:45 – 11:55 AM: Elizabeth Jung
Assessing and Improving the FAIRness of Common Fund Programs' Digital Resources

11:55 – 12:05 PM: Kaeli Rizzo
Predicting the Function and Disease Associations of Under-Studied GPCRs, Ion Channels, and Protein Kinases