

2024 LUDWIG CENTER AT HARVARD RETREAT AGENDA

Monday, November 25, 2024

8:00 am – 6:00 pm

Auditorium – Ground floor

Joseph B Martin Conference Center at Harvard Medical School

77 Avenue Louis Pasteur, Boston, MA

8:00 – 8:30 BREAKFAST AND NETWORKING

8:30 – 9:00 WELCOME AND INTRODUCTION

Joan and George

Pat Morin, LCR

9:00 – 11:30 LOCATION, LOCATION, LOCATION

9:00 ***Decoding Spatial Patterns Promoting Immune Exclusion in Triple Negative Breast Cancer***

Maxime Meylan, Wucherpfennig lab

9:30 ***Perturb-Map Multi-Modal: In situ CRISPR Screens with t-CyCIF and Spatial Transcriptomics***

Alex Tepper, Santagata lab and Brian Brown lab (Mt Sinai)

10:00 BIOBREAK

10:20 ***Highly Multiplexed 3D Imaging of Human Tissues and Tumors***

Alex Wong, Sorger lab

10:50 ***Metabolites in the Tumor Microenvironment***

Marcia Haigis

11:30 – 1:30 LUNCH AND POSTERS

1:30 – 2:30 SPATIAL TRANSCRIPTOMICS - LUDWIG RFA

1:30 ***High Resolution Spatial Profiling of the Small Cell Lung Cancer Tumor Immune Microenvironment***

Dave Barbie

1:50 ***Heterogeneity of Breast Cancer Brain Metastases***

Nelly Polyak

2:10 ***Glycogen Metabolism is a Mechanism of Resistance to PI3K Pathway-targeted Therapies***

Tash Khan, Toker lab

2:30 – 4:00 RESEARCH APPLICATIONS OF ARTIFICIAL INTELLIGENCE (AI)

2:30 ***Leveraging Data Visualization for Human-AI Interaction in Spatial Biology***

Nils Gehlenborg, HMS Department of Biomedical Informatics

3:15 ***BioPlex 3D: Predicting Structures for Protein-protein Interactions across the Human Interactome***

Ed Huttlin, HMS Department of Cell Biology

4:00 – 4:15 WRAP-UP

4:15 – 6:00 HAPPY HOUR AND POSTERS