



Cancer Precision Medicine *Retreat*

May 25, 2018 8:30 am – 6:00 pm

@ The New York Academy
of Medicine

May 25, 2018 8:30 am – 6:00 pm

08:30 am Check-In and Breakfast (Presidents Gallery, 1st Floor)

09:00 am **Opening Remarks (Hosack Hall, 1st Floor)**

Dennis Charney *Dean, Icahn School of Medicine at Mount Sinai*

Ramon Parsons *Director, The Tisch Cancer Institute; Chair, Dept. of Oncological Sciences*

Adam Margolin *Director, Icahn Institute; Chair, Dept. of Genetics & Genomic Sciences; Senior Associate Dean of Precision Medicine*

Session

1

Genetics

9:50 am – 10:40 am

09:50 am **Intro: Steven Burakoff** MODERATOR

09:55 am **Feature Talk: Anne Bowcock** – Genetic analysis of uveal melanoma

10:05 am **Judy Cho** – Precision Cancer and BioMe: Opportunities and integration challenges

10:10 am **Robert Klein** – Inherited genetic variants associated with prostate cancer survival

10:15 am **Emily Bernstein** – Epigenetic alterations in cancer

10:20 am **Paz Polak** – The underlying mechanisms of mutagenesis in cancer are influenced by ancestry

10:25 am **Q&A**

Session

2

Cancer Immunology & Immunotherapy

10:45 am – 11:35 am

10:45 am **Intro: Steven Burakoff** MODERATOR

10:50 am **Feature Talk: Marta Luksza** – From immune interactions to evolutionary predictions

11:00 am **Benjamin Greenbaum** – Quantifying immune recognition of tumors

11:05 am **Amir Horowitz** – Harnessing human NK cells to improve cancer immunotherapies

11:10 am **Miriam Merad** – Immuno-genomics classification of cancer

11:15 am **Nina Bhardwaj** – Personalized vaccine pipelines at the TCI

11:20 am **Q&A**

Session

3

Data Analysis

11:40 am – 12:30 pm

11:40 am **Intro: William Oh** MODERATOR

11:45 am **Feature Talk: Rong Chen** – Advancing precision oncology through data sciences

11:55 am **Bin Zhang** – Systems modeling of large-scale multi-omics data for precision medicine

12:00 pm **Pei Wang** – Clinical proteomic tumor analysis

12:05 pm **Boris Reva** – Constructing molecular signatures for cancer diagnostics

12:10 pm **Zeynep Gümüş** – Identifying and visualizing lung cancer risk genes towards precision prevention

12:15 pm **Q&A**

LUNCH 12:30 pm – 1:10 pm (Library, 3rd Floor)

Session

4

Novel Technologies

1:15 pm – 2:05 pm

01:15 pm **Intro: Carlos Cordon-Cardo** MODERATOR

01:20 pm **Feature Talk: Kristin Beaumont** – Understanding complex genetics of human disease by leveraging recent advances in next generation sequencing and molecular technology

01:30 pm **Jack Zeineh** – Reformulating pathology with artificial intelligence

01:35 pm **Jeremiah Faith** – Gut microbiome control of immune tone and response to cancer immunotherapy

01:40 pm **Sacha Gnjjatic** – “Human Immune Monitoring Center” at Mount Sinai and its technological platforms

01:45 pm **Uri Laserson** – Reading the antibody repertoire against the self

01:50 pm **Q&A**

Session

5

Functional Screens / Model Systems

2:10 pm – 3:00 pm

02:10 pm **Intro: Carlos Cordon-Cardo** MODERATOR

02:15 pm **Feature Talk: Aleksandra Wroblewska** – A novel platform for high dimension single cell CRISPR screens

02:25 pm **Eirini Papapetrou** – Synthetic lethality CRISPR screens in isogenic induced pluripotent stem cell (iPSC) models of spliceosomal mutations

02:30 pm **Jose Silva** – Functional genomics approaches for next generation breast cancer treatments

02:35 pm **Amaia Lujambio** – Precision modeling in liver cancer

02:40 pm **Ross Cagan** – Fly-to-Bedside

02:45 pm **Q&A**

Session

6

Clinical Translation

3:05 pm – 3:55 pm

03:05 pm **Intro: William Oh** MODERATOR

03:10 pm **Feature Talk: Samir Parekh** – Network modeling and personalized therapy for myeloma

03:20 pm **Joel Dudley** – Enabling integrative precision medicine for multiple myeloma

03:25 pm **Hanna Yoko Irie** – Personalizing treatment for chemotherapy-resistant triple negative breast cancer

03:30 pm **Poulikos Poulikakos** – Strategies overcoming adaptive resistance to inhibitors of oncogenic signaling

03:35 pm **Jian Jin** – Developing novel PROTACs as potential anticancer therapeutics

03:40 pm **Q&A**

03:50 pm Closing Remarks: **Adam Margolin**

04:00 pm **RECEPTION (Library, 3rd Floor)**

06:00 pm Close of Program