



2018 CHICAGO CANCER BIOLOGY RETREAT

OCTOBER 15, 2018



HOSTED BY: NORTHWESTERN, UIC, AND UCHICAGO



Welcome to the 2018 Chicago Joint Cancer Biology Retreat!

This event is made possible through collaboration between Northwestern University, The University of Illinois at Chicago and The University of Chicago Committee on Cancer Biology. We have tried to highlight talks and posters by trainees at this year's retreat in order to give less experienced students a platform to present their work and seek feedback from their peers. We hope that you find this event illuminating, and engage in discussion and collaboration with scientists from institutions other than your own.

——— The 2018 Chicago Cancer Biology Retreat Organizers

This program would not have been possible without the help of Student Organizers:

**Eric Bueter
Rosy Liao
Julian Lutze
Georgina Mancinelli
Christian Marinaccio
Erika Ramos
Alexander Terry**

7:30-8:00 am Arrival and Check In ----- Gleacher Center Lobby

7:30-8:30 am Breakfast ----- Room 100 Foyer

8:30-11:00 am TALK SESSION 1 ----- Room 100

HORMONE DRIVEN CANCERS

Moderator: Eric Bueter, *University of Chicago*

Role of TRIM28 in prostate cancer

Will Ka-Wing Fong, *Northwestern University*

Proteo-metabolomic analysis of ovarian cancer cells reveal an essential role of CD36 and FABP4 in establishment of ovarian cancer metastasis

Abir Mukherjee, *University of Chicago*

ER⁺ breast cancer cells depend on exogenous serine and glycine for proliferation and survival

Jonathan L. Coloff, *University of Illinois at Chicago*

PLK1 regulates the repressor and activation functions of FoxM1b in breast cancer cells

Nishit Mukhopadhyay, *University of Illinois at Chicago*

Homophilic CD44 interactions mediate tumor cell aggregation and polyclonal metastasis in triple negative breast cancers

Xia Liu, *Northwestern University*

The role of Hexokinase 2 in breast cancer metastasis

Catherine Blaha, *University of Illinois at Chicago*

11:00-12:00 noon POSTER SESSION 1 ----- Room 621

Posters 1-24, Last Names A-L

12:00-1:00 pm Lunch. ----- Room 100

1:00-3:20 pm TALKS SESSION 2: ----- Room 100

SIGNALING AND MOLECULAR MECHANISMS

Moderator: Alexander Terry, *University of Illinois at Chicago*

USP7 cooperates with NOTCH1 to drive the oncogenic transcriptional program in T cell leukemia

Qi Jin, *Northwestern University*

The chromatin assembly machinery promotes the undifferentiated state of myeloid leukemic cells

Andrew Volk, *Northwestern University*

Unconventional pathways of nitrogen metabolism in lung cancer

Jiyeon Kim, *University of Illinois at Chicago*

Reduced expression of *DOCK4* leads to increased protein phosphorylation and migration of hematopoietic stem/progenitor cells

Sriram Sundaravel, *University of Chicago*

CD95/Fas ligand mRNA is toxic to cells

Ashley Haluck-Kangas, *Northwestern University*

Lysine benzoylation is a histone mark regulated by SIRT2

Mathew Perez-Neut, *University of Chicago*

Application of single-cell RNA sequencing (Drop-seq) to dissect tissue heterogeneity in development and disease

Majd Ariss, *University of Illinois at Chicago*

3:20-4:20 pm POSTER SESSION 2 ----- Room 621

Posters 25-48, **Last Names M-Z**

4:20-6:00 pm TALKS SESSION 3 ----- Room 100

TUMOR IMMUNOLOGY

Moderator: Christian Marinaccio, *Northwestern University*

Host genetics and the microbiota collectively contribute to inferior anti-tumor immune response in C57BL/6 mice from Envigo

Jessica Fessler, *University of Chicago*

Tribulations of IDO1-targeted cancer immunotherapy: from bench, to the clinic, and back to the bench

Lijie Zhai, *Northwestern University*

Exploiting differential BCL-2 family dependency patterns in lymphocytes to manipulate the immune system

Lindsey Ludwig, *University of Chicago*

TGF β blockade augments PD-1 inhibition to promote T-cell mediated regression of pancreatic cancer

Daniel Principe, *University of Illinois at Chicago*

Direct real-time visualization and quantification of T cell receptor dynamics

Jillian Rosenberg, *University of Chicago*

6:00-7:00 pm Dinner ----- Room 621

7:00-8:00 pm ROUNDTABLES ----- Room 621