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

TGFβ 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