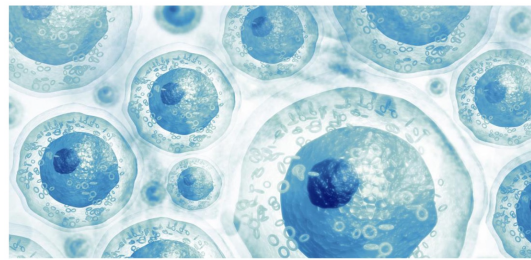


Yale STEM CELL CENTER

YaleNewHavenHealth
Smilow Cancer Hospital

Yale CANCER CENTER
A Comprehensive Cancer Center Designated
by the National Cancer Institute



Yale Stem Cell Center 12th Annual Virtual Research Retreat October 30, 2020

Welcome & Opening Remarks

8:45 – 9:00 am

Haifan Lin, PhD

Eugene Higgins Professor of Cell Biology, Professor of Genetics, Obstetrics, Gynecology and Reproductive Sciences, and Dermatology; Director, Yale Stem Cell Center

Session 1: Epigenetic drivers of hematopoiesis and cancer

Session Chair: In-Hyun Park, PhD,
Associate Professor of Genetics

9:00 – 9:20 am

Shangqin Guo, PhD

Associate Professor of Cell Biology

An unusual cellular state occupied by the fast cycling hematopoietic progenitors

9:20 – 9:40 am

Stephanie Halene, MD, PhD

Associate Professor of Medicine (Hematology)

High-resolution binding atlas of U2AF1 mutants uncovers new complexity in splicing alterations and kinetics in myeloid malignancies

9:40 – 10:00 am

Qin Yan, PhD

Associate Professor of Pathology

Regulation of drug resistance and tumor immunity by KDM5B histone demethylase

10:00 – 10:15 am

Selected trainee flash talks

Qiao Wu, (Guo Lab)

Department of Cell Biology

Cell fate regulation by nuclear-localized actins

Xiongzhuo Tang, (Lin Lab)

Department of Cell Biology

Function of PIWI in drosophila intestinal stem cells and gut development

Phan Duy, (Kahle Lab)

Department of Neurosurgery

A conserved residue in the RNA-binding NHL domain of the LET-7 target TRIM71/LIN-41 is required for mammalian brain morphogenesis and prenatal neural stem cell regulation

10:15 – 10:45 am

Virtual coffee break

10:45 – 11:45 am

Yale Stem Cell Center Keynote Speaker

Juergen A. Knoblich, PhD

Scientific Director, Institute of Molecular Biotechnology of the Austrian Academy of Sciences (IMBA), Vienna, Austria

Cerebral organoids: modelling human brain development and tumorigenesis in stem cell derived 3D culture

11:45 – 12:45 pm

Lunch/Breakout Sessions with Juergen Knoblich and Charles Sawyers

Session 2: Embryonic development and epigenetics

Session Chair: Kaelyn Sumigray, PhD
Assistant Professor of Genetics

12:45 – 1:05 pm

Zachary Smith, PhD

Assistant Professor of Genetics

Epigenetic regulation across major developmental transitions

1:05 – 1:25 pm

Berna Sozen, PhD

Assistant Professor of Genetics

Reconstructing mammalian embryonic patterning in vitro with stem cells

1:25 – 1:45 pm

Andrew Xiao, PhD

Associate Professor of Genetics

Epigenetic regulation in early development and cancer

1:45 – 2:00 pm

Selected trainee flash talks

Yiqun Jiang, (Myung Lab)

Department of Dermatology

Mapping molecular steps in hair follicle dermal niche development

Nils Neuenkirchen/Tianshu Liu, (Lin Lab)

Department of Cell Biology

MIWI2 interacts with the de novo DNA methylation machinery

Shuangshuang Du, (Greco Lab)

Department of Genetics

Cells and structures that orchestrate skin regeneration captured by live imaging

Session 3: Lymphatics, lymph nodes, and lymphocytes in development and anti-cancer immunity

Session Chair: Mandar Muzumdar, MD
Assistant Professor of Genetics and Medical Oncology

2:00 – 2:20 pm

Nikhil Joshi, PhD

Assistant Professor of Immunobiology

Developing genetically engineered animal models to investigate cancer immunology

2:20 – 2:40 pm

Anne Eichmann, PhD

Ensign Professor of Medicine (Cardiology) and Professor of Cellular and Molecular Physiology

Tip cell guidance of retina angiogenesis

2:40 – 3:00 pm

Jeffrey Ishizuka, MD, DPhil

Assistant Professor of Medicine (Oncology)

Targeting dsRNA editing to overcome resistance to immune checkpoint blockade

3:00 – 3:15 pm

Selected trainee flash talks

Haoyang Wei, (Greco Lab)

Department of Genetics

Understanding principles of hair follicle stem cell niche architecture in adult mice

Dingyao Zhang, (Lu Lab)

Department of Genetics

A non-canonical role of toll-like receptor 9 regulates cancer progression through suppressing the TGF-beta pathway

Kaiti Duan, (Hsia Lab)

Department of Surgery/Plastic Surgery

Fibronectin induced human pluripotent stem cell derived vascular smooth muscle cells enhance endothelial network formation via fibroblast growth factor

3:15 – 3:30 pm

Virtual coffee break

3:30 – 4:30 pm

Yale Cancer Center/Yale Stem Cell Center

Distinguished Speaker

Charles L. Sawyers, MD

Howard Hughes Medical Investigator; Marie-Josée and Henry R. Kravis Chair in Human Oncology and Pathogenesis; Chair, Human Oncology and Pathogenesis Program, Memorial Sloan Kettering Cancer Center, New York, New York

Lineage plasticity in prostate cancer

Closing Remarks

4:30 pm

Diane Krause, MD, PhD

Professor of Laboratory Medicine, Cell Biology and Pathology; Associate Director, Yale Stem Cell Center

Register now for YSCC's annual retreat – to be held all day on **Friday, October 30th** – using the below link:

https://yalesurvey.ca1.qualtrics.com/jfe/form/SV_3azqDC1LjGbNUc5

Those who register now will receive Zoom link the week of the event, and will be invited to select a lunchtime breakout session with a speaker