

Florida Academic Cancer Center Alliance (FACCA) Virtual Research Retreat October 28-29 via ZOOM

Wednesday, October 28, 2020: 1:00 pm – 4:40 pm

1:00 - 1:05 **UF Director Welcome**
Jonathan Licht, MD

1:05 - 1:30 **Opening Remarks – State Update**
Jonathan Licht, MD [UF]
John Cleveland, PhD [Moffitt]
Stephen Nimer, MD [SCCC]

1:30 - 2:30 **Session 1: Aging and Cancer**

Moderator: Lizi Wu, PhD

Daohong Zhou, PhD (UF)

Senescent Cells: An Emerging Target for Aging and Cancer

Ana Gomes, PhD (Moffitt)

Age-Driven Mechanisms That Promote Tumor Progression

Maria E. Figueroa, MD (Sylvester)

Epigenetic Deregulation in Hematopoietic Stem Cells with Aging

2:30 - 2:35 **5 min break**

2:35 - 3:35 **Parallel Sessions 2-3**

Session 2: Drug Resistance

Moderator: Keiran Smalley, PhD

Keiran Smalley, PhD (Moffitt)

Overcoming Targeted Therapy Resistance Through Immune Priming

Jonathan Licht, MD (UF)

NSD2 Mutation: An Epigenetic Cause of Therapy resistance in Childhood Acute Lymphocytic Leukemia

Nagi Ayad, PhD (Sylvester)

Integration of Transcriptomic, Proteomic, and Cheminformatic Datasets to Overcome Resistance in Glioblastoma

Session 3: Cancer Survivorship

Moderator: Frank Penedo, PhD

Diana Wilkie, PhD (UF)

TBD

Brian Gonzalez, MD (Moffitt)

Identifying Disparities in Prostate Cancer Patient-Reported Outcomes

Diana Molinares, MD (Sylvester)

Cancer Rehabilitation Medicine in Survivorship

3:35 - 3:40

5 min break

3:40 - 4:40

Parallel Sessions 4-5

Session 4: Biomarkers – Liquid Biopsy

Moderator: Z. Hugh Fan, PhD

Yong Zeng, PhD (UF)

Liquid Biopsy-based Cancer Diagnosis and Prognosis Using Advanced Extracellular Vesicle Analysis Nanochips

Liang Wang, PhD (Moffitt)

Liquid Biopsies in Advanced Prostate Cancer

Ashutosh Agarwal, PhD (Sylvester)

TBD

Session 5: Recruitment of Under Represented Minorities in Clinical Trials

Moderator: Folakemi Odedina, PhD

Folakemi Odedina, PhD (UF)

Improving the Representation of Blacks in Clinical Trials: Innovative Recruitment Methods

Susan Vadaparampil, PhD, MPH/ Jhanelle Gray, MD (Moffitt)

Center-wide and Clinic-level Efforts to Increase Minority Participation in Clinical Trials

(Sylvester)

TBD

Thursday, October 29, 2020: 8:00 am – 1:30 pm

8:00 - 9:00

Shared Resources

Moderator: Steven Madore, PhD

Steven Madore, PhD (UF)

Long Read DNA Sequencing

Christine O’Connell / Florian Karreth (Moffitt)

The Moffitt Gene Targeting Core

George Grills, PhD (Sylvester)

Overview of Sylvester Shared Resources and Exploring the Possibility of Establishing Regional Shared Resources

9:00 - 10:00

Session 6: Single Cell Technologies and Application

Moderator: William Harbour, MD

Ann Chen, PhD (Moffitt)

Single Cell RNA-seq and Metabolomics Visual Analytics

David Tran, MD, PhD (UF)

TBD

William Harbour, MD (Sylvester)

New Discoveries in Eye Cancer Using Single-Cell Sequencing

10:00 - 10:05

5 min break

10:05 - 11:05

Parallel Sessions 7-8

Session 7: Health Equity

Moderator: Folakemi Odedina, PhD

Nancy Mendenhall, MD (UF)

TBD

Lauren Peres, PhD (Moffitt)

Expanding Our Understanding of Racial/Ethnic Disparities in Ovarian Cancer

Erin Kobetz, PhD, MPH (Sylvester)

TBD

Session 8: New Technologies: Drug Development

Moderator: Daohong Zhou, MD

Justin Lopchuk, PhD (Moffitt)

New Synthetic Methods for Enabling Drug Discovery

Guangrong Zheng, PhD

Targeted Degradation of Bcl-xL and Beyond

Shaun Brothers, PhD (Sylvester)

Cancer Drug Personalization via Unbiased High Throughput Screening

11:05 - 11:10

5 min break

11:10 - 12:10 pm

Parallel Sessions 9-10

Session 9: Resistance to Immunotherapy

Moderator: Srikumar Chellappan, PhD

Jose Conejo-Garcia, MD, PhD (Moffitt)

CD277 Targeting Abrogates PD-1-resistant Malignant Progression Through Coordinated GD and AB T Cell Responses

Lingtao Jin, PhD (UF)

Lipid Metabolism Signaling in Anti-tumor Immunity

Marco Davila, MD, PhD (Moffitt)

Mechanisms of CAR T Cell Toxicity and Resistance

Krishna Komanduri, MD (Sylvester)

Relapse After CAR-T Therapy—Mechanisms and Strategies to Improve Outcomes

Session 10: Obesity, Metabolism, and Cancer

Moderator: Frederic Kaye, MD

Sara St. George, PhD (Sylvester)

Using the IDEAS Framework to Develop a Multigenerational Digital Lifestyle Intervention for Women Cancer Survivors and Their Families

Ryan Kolb, PhD (UF)

Obesity, Inflammation and Breast Cancer

Gina DeNicola, PhD (Moffitt)

Redox Regulation of Mitochondrial Metabolism

12:10 - 12:15

5 min break

12:15 - 1:15

Parallel Sessions 11-12

Session 11: Microbiome

Moderator: Anna Coghill, PhD, MPH

Sabita Roy, PhD (Sylvester)

Opioid Modulation of Gut Microbiome: Implications in Cancer Pain Management

Christian Jobin, PhD (UF)

Intestinal Microbiota Influences Anti-PD1 Responses in NSCLC Patients

Ryan Thomas, MD (UF)

Natural Killer Cells and the Microbiota: Regulators of Pancreatic Cancer Development

Session 12: AI in Cancer Research

Moderator: Jiang Bian, PhD

Jiang Bian, PhD (UF)

The Big Short with AI in Biomedical Sciences: From Prediction to Action

Issam El Naqa, PhD (Moffitt)

AI in Cancer Research: Potentials and Challenges

Raymond R. Balise, PhD (Sylvester)

Predicting Late Stage Breast Cancer with Traditional and Machine Learning Methods

1:15 - 1:30

Closing Remarks

Stephen Nimer, MD [SCCC]

John Cleveland, PhD [Moffitt]

Jonathan Licht, MD [UF]