Moffitt Cancer Center
Presents
Research Day 2019

Stabile Research Building
Thursday, August 1, 2019
4:00 pm - 7:00 pm

SPARK your imagination…
...in the SPIRIT of research
Research Day Agenda

4:00 pm  Student Presentations
          David Murphey Conference Room
          Ferman Family Conference Room
          Ted & Marty Couch Auditorium

5:30 pm  Reception
          Stabile Research Building (SRB) Atrium

6:00 pm  Welcome

          Cathy Meade, PhD
          Co-PI, SPIRIT-CHD

          Alumni Spotlight

          Lilla Kis
          USF MCOM
          Class of 2022

          Student Awards

          Clement Gwede, PhD
          Director, SPIRIT-CHD
          CREP Program

          Doug Cress, PhD
          Co-PI, SPIRIT-CHD
          Director, SPARK
SPARK
Summer Program for the Advancement of Research Knowledge

The Moffitt SPARK Program provides an opportunity for highly-motivated undergraduate students to immerse themselves in an authentic and meaningful research project. Training with experienced scientists, SPARK interns learn by doing and may tackle a cutting-edge research hypothesis independently, or as part of a team. Over the past decade, the Program has trained well over 400 students. This Program is generously sponsored by the Frank E. Duckwall Foundation and the Saunders Foundation.

Doug Cress, PhD
Director, SPARK
SPIRIT-CHD
Southeast Partnership for Improving Research and Training in Cancer Health Disparities

The SPIRIT-CHD is a collaborative partnership between Moffitt Cancer Center and Louisiana State University Health Sciences Center in New Orleans, Louisiana. The overall goal of the partnership is to advance translational research on cancer health disparities and establish a Cancer Research Education Program (CREP) for underrepresented undergraduate and medical students. The CREP supports an 8-week summer internship program that has a unique focus on biobanking, precision medicine and cancer health disparities. The CREP includes a web-based curriculum, one-on-one mentoring from research scientists, community outreach and engagement experiences, and other hands-on research experiences.

Cathy Meade, PhD and Doug Cress, PhD
Co-Principal Investigators

Clement Gwede, PhD and Vani Simmons, PhD
Co-Directors, CREP
4:00 pm  Z’Kera Sims, MPH - Host
5 minute presentations followed by 2 minutes Q & A

4:05 pm  Nat Jones
USF Morsani College of Medicine
Mentor(s): Jenny Permuth, PhD
Matthew Schabath, PhD
Inclusion of Transgender and Gender Diverse (TGD) Health Data in Cancer Biorepositories

4:12 pm  Marissa Maldonado
USF Morsani College of Medicine
Mentor: Jong Park, PhD
Current Status of Gene Therapy Clinical Trials for Gliomas

4:19 pm  Katherine Torres
Johns Hopkins University
Mentor: Cathy Meade, PhD
Culture and Literacy: Addressing Cancer Health Disparities

4:26 pm  Monise Harris
University of South Florida
Mentor: Vani Simmons, PhD
Beliefs toward smoking among low income Hispanic smokers
<table>
<thead>
<tr>
<th>Time</th>
<th>Presenter</th>
<th>Institution</th>
<th>Mentor</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>4:33pm</td>
<td>Naria Sealy</td>
<td>University of Massachusetts Amherst</td>
<td>Stephanie Schmit, PhD</td>
<td>Racial/Ethnic Differences in Molecular features of CRC</td>
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<td>4:40 pm</td>
<td>Darrys Reese</td>
<td>University of South Florida</td>
<td>Eric Le-Lau, PhD</td>
<td>Role of FAK in the fucosylated integrin $\alpha v$ signaling in breast cancer cells</td>
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<td>4:47pm</td>
<td>Leonel Ochoa</td>
<td>University of California Berkeley</td>
<td>Vani Simmons, PhD</td>
<td>Smoking expectancies and nicotine dependence among Latinx smokers</td>
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<td>4:54 pm</td>
<td>Kayla McLymont</td>
<td>Brown University</td>
<td>Shannon Christy, PhD</td>
<td>Personalizing Educational Material for FDRs of CRC Survivors</td>
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<tr>
<td>5:02 pm</td>
<td>Ahmed Khan</td>
<td>Case Western Reserve University</td>
<td>Stephanie Schmit, PhD</td>
<td>Characterization of The Immune Landscape in Colorectal Adenomas</td>
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Student Presentations - Ferman Family

4:00 pm  Doug Cress, PhD - Host
5 minute presentations followed by 2 minutes Q & A

4:05 pm  Zara Hedaya
University of Florida
Mentor: Daniel Abate-Daga, PhD
Analysis of Co-Stimulation in Anti-PSCA CAR-T Cells for Pancreatic Cancer

4:12 pm  Kwame Amankwah
University of North Carolina Chapel Hill
Mentor: Alvaro Monteiro, PhD
Cloning of human BNC2 as a fusion to GAL4-DNA binding domain

4:19 pm  Brandon Stone
University of Florida
Mentor: John Koomen, PhD
Mass Spectrometry quantification of G12C mutant KRAS in lung cancer to predict response to targeted therapy

4:26 pm  Naaji Hylton
Princeton University
Mentor: Elsa Flores, PhD
IncRNA TROLL8 modulates cell metabolism through LCFA pathway

4:33pm  Brian Johnson
Rutgers University
Mentor: Philipp Altrock, PhD
Understanding Heterogeneity using Evolutionary Game Theory
4:40 pm  Jack Edwards  
*University of South Florida*  
*Mentor: David Basanta, PhD*  
*Non-Cellular Autonomous Effects on the Big Bang Hypothesis in Cancer*

4:47pm  James Eschrich  
*University of Florida*  
*Mentor: Jamie Teer, PhD*  
*AWL: A Workflow Language for Reproducible Genomics Research*

4:54 pm  Mark Laurie  
*Stanford University*  
*Mentor: Andriy Marusyk, PhD*  
*Defining the Protective Effects of Cancer-Associated Fibroblasts*

5:02 pm  Nicholas Mandel  
*University of Central Florida*  
*Mentor: Patsy McDonald, PhD*  
*GPR161 Overexpression in TNBC*

5:09 pm  Minerva Nong  
*Dartmouth College*  
*Mentor: Kenneth Shain, MD, PhD*  
*Sensitizing multiple myeloma cell lines to Bcl-2 inhibitor Venetoclax*
Student Presentations - Couch Auditorium

4:00 pm  P.K. Burnette, PharmD, PhD - Host
5 minute presentations followed by 2 minutes Q & A

4:05 pm  Mary Rau
University of South Florida
Mentor: Daniel Sullivan, MD
*Novel Top1Inhibitors in Multiple Myeloma*

4:12pm  Shruti Agarwal
University of South Florida
Mentor: Eric Haura, MD
*Cancer Cell Mediated PDGFR Activation in Fibroblasts*

4:19 pm  Macey Farnell
Dallas Baptist University
Mentor: P.K. Burnette, PharmD, PhD
*Metabolic Manipulations for T-Cell Immuno Therapies*

4:26 pm  Jacob Sullivan
Stetson University
Mentor: Florian Karreth, PhD
*Role of PHGDH and Notch2 in melanoma cells*

4:33 pm  Amelia Llerena
University of Miami
Mentor: John Mullinax, MD
*The Effect of Radiation on Immune and Tumor Response in HPV-16 TC-1*
4:40pm  Shalini Nair  
University of Florida  
Mentor: Jong Park, PhD  
Biobank for African American Prostate Cancer Research in Florida

4:47 pm  Joshua Culberson  
University of South Florida  
Mentor: Nicholas Lawrence, PhD  
Structure-Based Design of Selected BRD4 Inhibitors

4:54 pm  Tamas Kis  
Vanderbilt University  
Mentor: Kasia Rejniak, PhD  
Modeling the effect of \(\text{IFN-}\gamma\) on CTL migration in adoptive cell therapy in a hypoxic tumor microenvironment

5:02 pm  Haejin Kang  
Emory University  
Mentor: Srikumar Chellappan, PhD  
Targeting transcriptional CDKs and BRD4 to combat GBM
Thank you to Our Faculty Mentors

Daniel Abate-Daga
Philipp Altrock
David Basanta
P.K. Burnette
Srikumar Chellappan
Shannon Christy
Elsa Flores
Clement Gwede
Eric Haura
Florian Karreth
John Koomen
Eric Le-Lau
Nicholas Lawrence
Patsy McDonald

Cathy Meade
Andriy Marusykh
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John Mullinax
Jong Park
Jennifer Permuth
Katarzyna Rejniak
Matthew Schabath
Stephanie Schmit
Ken Shain
Vani Simmons
Dan Sullivan
Jamie Teer
Thank you to Our Co-Mentors

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Pradeep Nareddy
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Joel Turner
Amy Weber
2019 SPARK and SPIRIT Interns in Action
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