CANCER BIOLOGY PROGRAM’S 10th ANNIVERSARY

On August 26, 2016, The Sheila and David Fuente Graduate Program in Cancer Biology celebrated 10 years (2006 – 2016) with fun, food and entertainment.

Thank you to all who helped with the planning and set up of the event. It was a great success!

For more information please contact: Sylvester Comprehensive Cancer Center Office of Education and Training 305-243-2287 or visit our web page at http://sylvester.org/education-and-training
Eckhard Podack, M.D., Ph.D., a visionary in translating his basic science findings into advanced clinical care, joined the Miller School of Medicine in 1987 as a Professor of Microbiology & Immunology and became department chair in 1994.

The Podack Memorial Symposium, hosted by the Department of Microbiology and Immunology, Sylvester Comprehensive Cancer Center and the University of Miami Miller School of Medicine Dean’s Office, was held on Friday, November 4, 2016.

**Symposium Speakers:**

Joseph A. Trapani, MBBS, FRACP, Ph.D., FFSc (RCPA), FAHMS

Taylor H. Schreiber, M.D. Ph.D

Drew M. Pardoll, M.D., Ph.D.

Natasa Strbo, M.D. D.Sc.

Ryan McCormack, Ph.D.

George P. Munson, Ph.D.

Lewis L. Lanier, Ph.D.

Attendees enjoyed lunch where they were able to interact with symposium speakers, faculty and their peers.
CANCER BIOLOGY (CAB) STUDENT NEWS

Accomplishments

Michael Durante was chosen as a Center for Computational Science Fellow for 2016-2017. Mentor: Dr. J. William Harbour

Andre Jordan was named a Ruth L. Kirschstein National Research Service Award Fellow in August 2016. Mentor: Dr. Vinata Lokeshwar

Activities

Julia Escandon presented a poster, “Interstitial nephritis and reactive of psoriasis in melanoma patients secondary to PD-1 checkpoint inhibitor” in May 2016 at Mount Sinai Medical Center. Mentor: Dr. J. William Harbour

Fiorella Magani attended the Florida Cancer Research Symposium in Clearwater, Florida in May 2016. Mentor: Dr. Kerry Burnstein

CONGRATULATIONS!!!

Kerry Burnstein, Ph.D.; Professor of Molecular and Cellular Pharmacology and Associate Director for Education and Training at Sylvester was elected the President of The Cancer Biology Training Consortium (CABTRAC) for the 2017-2018 term.

CABTRAC was established to facilitate the exchange of ideas between individuals and institutions dedicated in the quest to train the next generation of cancer researchers. The consortium works closely with over 50 institutions within the US as well as the National Cancer Institute’s Cancer Training Branch.

CAB OPEN HOUSE 2016

The Sheila and David Fuente Graduate Program in Cancer Biology held their annual open house event on August 23, 2016.

Attendees interacted with current CAB students and faculty and learned about the Cancer Biology Program.

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Govindi Jayanika Samaranayake presented her poster entitled, “MTH1 Inhibition as an Effective Tumor Suppressive Strategy in RAS-Driven Cancer” at AACR Precision Medicine Series, Targeting the Vulnerabilities of Cancer in May 2016. **Mentor:** Dr. Priyamvada Rai

Xiaoming Han presented a poster entitled, “Identification of a Notch Dependent Transcriptional Repressor Complex”, at the Targeting Cancer: 81st Cold Spring Harbor Symposium in June. **Mentor:** Dr. Anthony Capobianco

Ke Jin presented a poster, “P300 Acetylates Maml1 to Recruit NACK to Notch Transcriptional Complex” at the Targeting Cancer: 81st Cold Spring Harbor Symposium in June. **Mentor:** Dr. Anthony Capobianco

Xiaoming Han, presented a poster entitled, “Identification of a Notch Dependent Transcriptional Repressor Complex”, at the Targeting Cancer: 81st Cold Spring Harbor Symposium in June. **Mentor:** Dr. Anthony Capobianco

**POSTDOCTORAL NEWS**

**Activities**

Pierre-Jacques Hamard presented his poster “Prmt5 regulates fetal erythropoiesis by controlling the Nua4 histone acetyltrasferase complex”, at the 2nd Annual University of Miami Department of Medicine Eugene J. Sayfie Research Day.

Jinhee Hyun presented a poster, “Differential Regulation of Chemokin and Cytokine Production during HCF Infection in the Liver” at the 2016 Miami Winter Symposium.

**Accomplishments**

Ian White received the American Heart Association 2016 Best Manuscript Award for his publication, **Sympathetic reinnervation is required for mammalian cardiac regeneration**. **Mentor:** Dr. Joshua Hare

Ning Zhao, received the 2017 Urology Care Foundation Research Scholar Award. For the 2 year duration of the fellowship, Dr. Zhao will be working on Arginine vasopressin receptor 1A as a novel therapeutic target for castration-resistant prostate cancer. **Mentor:** Dr. Kerry Burnstein

**CAB Student Publications**

(Click on the publication title for citation and abstract)

Michael Durante, **Epigenetic Reprogramming and Aberrant Expression of PRAME are Associated with Increased Metastatic Risk in Class 1 and Class 2 Uveal Melanomas**

Julia Escandon, **Aneuploidy and Tetraploidy as Distinct Patterns During Melanomagenesis**

Julia Escandon, **Isolation of Mouse Hair Follicle Bulge Stem Cells and Their Functional Analysis in Reconstitution Assay**

Matthew Field, **Epigenetic Reprogramming and Aberrant Expression of PRAME are Associated with Increased Metastatic Risk in Class 1 and Class 2 Uveal Melanomas**

Matthew Field, **Driver Mutations in Uveal Melanoma: Associations with Gene Expression Profile and Patient Outcomes**

James Grosso, **Identification of a Cancer Stem Cell-Specific Function for the Histone Deacetylases, GDAC1 and HDAC7 in Breast and Ovarian Cancer**

Xiaoming Han, **The Small Molecule IMR-1 Inhibits the Notch Transcriptional Activation Complex to Suppress Tumorigenesis**

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Konstantinos Chatzistergos, **Stimulatory Effects of Mesenchymal Stem Cells on cKit+ Cardiac Stem Cells Are Mediated by SDF1/CXCR4 and SCF/cKit Signaling Pathways**

Francesc Cunyat, **Colony-Stimulating Factor 1 Receptor Antagonists Sensitize Human Immunodeficiency Virus Type 1-Infected Macrophages to TRAIL-Mediated Killing.**

Sarah M. Greenblatt, **Arginine Methyltransferases in Normal and Malignant Hematopoiesis.**

Wenjun Liu, **Molecular Mechanism of Protein Kinase Recognition and Sorting by the Hsp90 Kinome-Specific Cochaperone Cdc37**

Fengjie Guo, **Mesd Extrinsically Promotes Phagocytosis by Retinal epithelial cells.**

Jinhee Hyn, **Hepatitis B Virus and DNS Stimulation Trigger a Rapid Innate Immune Response Through NF-kB.**

Akhilesh Kumar, **Arginyltransferase Suppresses Cell Tumorigenic Potential and Inversely Correlates with Metastases in Human Cancers.**

Stefan Kurtenbach, **Epigenetic Reprogramming and Aberrant Expression of PRAME are Associated with Increased Metastatic Risk in Class 1 and Class 2 Uveal Melanomas**

Jeffim Kuznetsov, **Epigenetic Reprogramming and Aberrant Expression of PRAME are Associated with Increased Metastatic Risk in Class 1 and Class 2 Uveal Melanomas**

Diogo de Mattos Magnani, **Cellular Immune Responses Against Simian T-Lymphotropic Virus Type 1 Target Tax in Infected Baboons.**

Philip Craig Miller, **Targeting of RAGE-ligand Signaling Impairs Breast Cancer Cell Invasion and Metastasis.**

Omar Lloyd Nelson, **Characterization of Risk Factors for Adjuvant Radiotherapy-Associated Pain in a Tri-Racial/Ethnic Breast Cancer Population.**

Alice Nomura, **CD133(+) Tumor Initiating Cells in a Syngenic Murine Model of Pancreatic Cancer Respond to Minnelide**

Devang Patel, **Posttranslational Arginylation Enzyme Ate1 Affects DNA Mutagenesis by Regulating Stress Response.**

Manuel Picon-Ruiz, **Vitamin D and Androgen Receptor-Targeted Therapy for Triple-Negative Breast Cancer.**

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March 24, 2017, Yoshiaki Ito, M.D., Ph.D., Professor of Medical Oncology, Department of Medicine, Yong Loo Lin School of Medicine, National University of Singapore; Senior Principal Investigator, Professor, Cancer Science Institute of Singapore; Adjunct Professor, Institute of Molecular and Cell Biology Singapore.

April 28, 2017, Massimo Loda, M.D., Professor, Pathology, Harvard Medical School; Principal Investigator, Pathology, Dana-Farber Cancer Institute; Senior Pathologist, Pathology, Brigham and Women’s Hospital.

18th Annual Zubrod Memorial Lecture
May 19, 2017
Carl H. June, M.D., Richard W. Vague Professor in Immunotherapy, Department of Pathology and Laboratory Medicine; Director, Center for Cellular Immunotherapies; Director, Parker Institute for Cancer Immunotherapy, Perelman School of Medicine University of Pennsylvania, Smilow Center for Translational Research.

If you are interested in the lectures but are unable to attend, they can be now viewed on the University of Miami Miller School of Medicine Educational Events and Seminars Calendar. Please visit the Distinguished Lecture Series section of the calendar.

DISTINGUISHED COLLABORATION SERIES

The Distinguished Collaboration Series (DCS) is a new lecture format from a team of distinguished internal speakers. The lectures focus on different aspects of the same scientific/clinical problem and explore the interrelationships between basic cancer research and clinical medicine.

The new lecture series began with the following internal speakers:

October 14, 2016, Dennis D. Weisenburger, M.D., Professor and Chair in the Department of Pathology at the City of Hope Medical Center in Duarte, California, lectured on “Peripheral T-cell Lymphoma”.

November 11, 2016, Mario Capecchi, Ph.D., Distinguished Professor of Biology & Human Genetics and Investigator at the HowardHugh Institute, University of Utah School of Medicine presented “Gene Targeting into the 21st Century: Mouse Models of Human Disease from Cancer to Neuropsychiatric Disorders”.

November 18, 2016, Lee M. Ellis, M.D., F.A.C.S., F.A.S.C.O, Professor in the Departments of Surgical Oncology and Molecular & Cellular Oncology; William C. Liedtke, Jr. Chair in Cancer Research at the University of Texas, MD Anderson Center, lectured on “The Erosion of Research Integrity: The Need for a Culture Change”.

Upcoming Guest Lecturers:

January 20, 2017, Craig Moskowitz, M.D., Steven A. Greenberg Chair in Lymphoma Research, Clinical Director, Division of Hematologic Oncology at the Memorial Sloan Kettering Cancer Center.

February 3, 2017, Lee Helman, M.D., Scientific Director for Clinical Research, Center for Cancer Research, National Cancer Institute, National Institutes of Health.

February 10, 2017, Dean Felsher, M.D., Ph.D., Professor of Medicine, Oncology and Pathology, Stanford University School of Medicine.

February 17, 2017, Ulrich G. Steidl, M.D., Ph.D., Professor, Departments of Cell Biology and Medicine (Oncology), Diane and Arthur B. Belfer Faculty Scholar in Cancer Research, Associate Chairman for Translation Research, Department of Oncology Scientific Director, Division of Hematology-Oncology, Program Leader “Stem Cells, Differentiation and Cancer”, Albert Einstein Cancer Center, Albert Einstein College of Medicine/Montefiore Medical Center.

March 3, 2017, Ross L. Levine, M.D., Laurence Joseph Dineen Chair in Leukemia Research Director, MSK Center for Hematologic Malignancies, Memorial Sloan Kettering Cancer Center.

March 17, 2017, Daniel Starczynowski, Ph.D., Associate Professor, UC Department of Pediatrics, Cincinnati Children’s Hospital Medical Center.

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**CAREER TALKS**

On November 3rd, **Taylor Schreiber, M.D., Ph.D.**, a 2010 graduate of the UM Sheila and David Fuente Graduate Program in Cancer Biology, spoke with postdoctoral trainees and graduate students about his career path and experiences.

**Next Career Talk:**
**Melissa Santiago, Ph.D.**
National MSL Director, Sunovion Pharmaceuticals

Date: TBD

**SAVE THE DATE**

2 Session Grant Writing Workshop
March 1 & 7, 2017
Led by Dr. Mary Lou King

**Upcoming Speakers:**

January 27, 2017, **Ronan Swords, M.D, Ph.D, FRCPI, FRCPath**, Assistant Professor of Medicine; **Ramin Shiekhattar**, Ph.D., Director of the Cancer Epigenetics Research Program, Professor of Biochemistry & Molecular Biology; **Arthur Zelent, Ph.D.**, Research Professor of Medicine.

April 7, 2017, **J. William Harbour, M.D.**, Professor of Ophthalmology; **Jeong Hee Cho, M.D., Ph.D.**, Associate Professor of Pathology, Director of Dermatopathology; **Nicolas Acquavella Pesantes, M.D.**, Assistant Professor of Clinical Medicine.

May 12, 2017, **Robert Levy, Ph.D.**, Professor of Microbiology and Immunology; **Krishna Komanduri, M.D.**, Professor of Medicine and Microbiology & Immunology, Director, Sylvester Adult Stem Cell Transplant Program; **Thomas Malek, Ph.D.**, Professor of Microbiology and Immunology.

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