



CANCER RESEARCH AT UF HEALTH (FACCA ATTENDEES)

Yehia Daaka, PhD

Department: Anatomy & Cell Biology
Email: ydaaka@ufl.edu

- *Biological roles of G protein-coupled receptors and their effectors in cancer initiation and progression*
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Thomas J. George, MD, FACP

Department: Hematology/Oncology
Research Program: Cancer Therapeutics & Immuno-Oncology
Email: thom.george@medicine.ufl.edu

- *Innovative Clinical trials and trial designs to promote novel cancer drug application in patient care and quality of life/cancer care decision making*
 - *Identification of biomarkers of cancer or the patient to predict response to therapy*
 - *Incorporation of new molecular markers, comprehensive genomic profiling, and pharmacogenomics to optimize outcomes for each unique patient*
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Yi Guo, PhD

Department: Health Outcomes & Policy
Email: yiguo@ufl.edu

- *Statistical methodology for sample size estimation, cancer outcomes, prevention and control, and health care delivery*
 - *Eliminating health disparities, studying behavioral health issues, and the environmental and social determinants of health in low-income populations*
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Olga Guryanova, MD, PhD

Department: Pharmacology & Therapeutics

Research Program: Cancer Genome & Epigenome Integrity

Email: oguryanova@ufl.edu

- *Molecular mechanisms of altered chromatin dynamics in normal, pre-leukemic and leukemic cells harboring mutations in epigenetic modifier genes*
 - *Role of leukemia-associated DNMT3A mutations in clonal evolution of hematopoiesis*
 - *Mechanistically-guided development and pre-clinical evaluation of novel therapeutic strategies for DNMT3A-mutant acute myeloid leukemia (AML)*
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Jaclyn Hall, PhD

Department: Health Outcomes & Policy

Email: jaclynha@ufl.edu

- *Environmental and demographic datasets to examine how humans interact with the natural environment*
 - *Geocoding, mapping, new spatial data sets, cluster analysis, study group delineation*
 - *Pattern and process of homogenization of neighborhoods within heterogeneous cities; implications for health outcomes; and environmental data to understand health outcomes*
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Robert H. Houlihan, DHA, MBA, FACHE, CCRP, CRA

Associate Director for Administration

Department: UF Health Cancer Center

Email: rhoulihan@ufl.edu

- *CCSG Administration*
 - *Strategic Planning and Analysis*
 - *Financial Management*
 - *Center Operations*
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Suming Huang, PhD

Department: Biochemistry & Molecular Biology

Research Program: Cancer Genome & Epigenome Integrity

Email: sumingh@ufl.edu

- *Delineate the epigenetic pathways that regulate the normal hematopoiesis and to further determine how these networks are perturbed in anemia and leukemia*
 - *Role of CTCF-mediated 3D genome organization in enhancer/promoter interactions and oncogene transcription and translocation*
 - *Role of long non-coding RNAs in hematopoiesis and leukemogenesis*
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Alexander M. Ishov, PhD

Department: Anatomy & Cell Biology

Research Program: Cancer Genome & Epigenome Integrity

Email: ishov@ufl.edu

- *Functions of histone variants in castration-resistant prostate cancer*
 - *Chemoresistance in breast cancer*
 - *Epigenetic regulation of gene expression in cancer and host/pathogen interaction*
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Christian Jobin, PhD

Department: Gastroenterology, Hepatology & Nutrition

Research Program: Cancer Microbiota & Host Response

Email: christian.jobin@medicine.ufl.edu

- *Bacteria/host interaction and ensuring innate/immunological responses during health and diseases*
 - *Mice and zebrafish housed in germ-free and gnotobiotic conditions, microbiome techniques (next-generation sequencing, microbial gene mutations, etc) to study the differential contribution of bacteria in protecting or exacerbating the development of colitis and colorectal cancer*
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Michael P. Kladde, PhD

Department: Biochemistry & Molecular Biology

Research Program: Cancer Genome & Epigenome Integrity

Email: kladde@ufl.edu

- *Epigenetic regulation of eukaryotic transcription*
 - *Epigenetic basis of tumor progression and chemotherapeutic resistance*
 - *Changes in the epigenome in response to low-dose radiation*
 - *Development of novel, integrative methods for epigenetic investigations*
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Brian K. Law, PhD

Department: Pharmacology & Therapeutics

Research Program: Cancer Therapeutics & Immuno-Oncology

Email: bklaw@pharmacology.ufl.edu

- *Role of Cyclin-dependent kinases (Cdks) in the initiation of breast tumors, and the development of novel small molecular Cdk inhibitors as anti-cancer therapeutics*
 - *Optimization of novel agents that selectively kill breast cancer cells that overexpress the EGFR or HER2 oncoproteins*
 - *Role of the CDCP1-containing protein complexes in anoikis evasion and disruption of cell-cell and cell-substratum adhesion*
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Chenglong Li, PhD

Department: Medicinal Chemistry

Research Program: Cancer Genome & Epigenome Integrity

Email: lic@cop.ufl.edu

- *Molecular recognition, with a strong application to structure-based computer-aided drug design*
 - *Computational method development and drug design applications*
 - *Drug discovery targeting cytokine IL-6/STAT3 pathway*
 - *Drug discovery targeting arginine methyltransferase PRMT5 epigenetic complexes*
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Jonathan D. Licht, MD

Center Director

Department: Hematology/Oncology

Research Program: Cancer Genome & Epigenome Integrity

Email: jdlicht@ufl.edu

- *Aberrant transcriptional regulation as a cause of hematologic malignancy*
 - *Molecular biology of multiple myeloma – chromatin changes and gene expression mediated by the MMSET protein over-expressed in a subset of multiple myeloma KDM6A loss of function*
 - *Collaborative effects of MAP kinase signaling and chromatin regulator mutation in solid tumors*
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Steven Madore, PhD

Department: Interdisciplinary Center for Biotechnology Research

Email: smadore@ufl.edu

- *Genomics*
 - *Biorepository science*
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Walter G. O'Dell, PhD

Department: Radiation Oncology

Research Program: Cancer Population Sciences

Email: ODELWG@shands.ufl.edu

- *Medical image analysis*
 - *3D tumor & vessel detection & sizing*
 - *Cardiac MRI*
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Rolf Renne, PhD

Department: Molecular Genetics & Microbiology
Research Program: Cancer Microbiota & Host Response
Email: rrenne@ufl.edu

- *How proteins and noncoding RNAs expressed during KSHV latency regulate host and viral gene expression, contributing to our understanding of viral biology and tumorigenesis*
 - *Identifying targets for KSHV-encoded miRNAs by ribonomics approaches including HITS-CLIP and CLASH in disease relevant models*
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Alberto Riva, PhD

Department: DiBiG, ICBR Bioinformatics
Email: ariva@ufl.edu

- *Design, development and use of computational tools for genomics, genetics, and biomedical research;*
 - *Development of complex analysis pipelines for computational biology applications in high-performance cluster computing environments;*
 - *Bioinformatics training and consulting.*
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Ramzi Salloum, PhD

Department: Health Outcomes & Policy
Research Program: Cancer Population Sciences
Email: rsalloum@ufl.edu

- *Influence of guidelines and incentives on the demand for health and healthcare across the cancer control continuum*
 - *Behavioral economics techniques to inform policy that can influence health-related decision-making among vulnerable populations*
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Prof. W. Gregory Sawyer, PhD

Department: Mechanical & Aerospace Engineering
Research Program: Cancer Therapeutics & Immuno-Oncology
Email: wgsawyer@ufl.edu

- *Surface science and engineering*
 - *Precision engineering and instrumentation*
 - *Soft matter mechanics and engineering*
 - *Biofabrication*
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Elizabeth (Betsy) A. Shenkman, PhD

Department: Health Outcomes & Policy
Research Program: Cancer Population Sciences
Email: eshenkman@ufl.edu

- *Combinations of health care delivery, community, and patient factors that influence quality and outcomes of care*
 - *Evidence-based strategies to improve health outcomes*
 - *Evidence-based best practice strategies in health care settings*
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Scott A. Tibbetts, PhD

Department: Molecular Genetics & Microbiology
Research Program: Cancer Microbiota & Host Response
Email: stibbe@ufl.edu

- *Viral noncoding RNA functions in gammaherpesvirus infection and lymphomagenesis*
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Zsolt Toth, PhD

Department: Oral Biology
Research Program: Cancer Microbiota & Host Response
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- *Function of specific viral and host factors that are critical for the persistent Kaposi's sarcoma-associated herpesvirus (KSHV) infection and KSHV-induced oncogenesis using KSHV mutants and structural-functional biochemical assays combined with system biology and genomic approaches*
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David D. Tran, MD, PhD

Department: Neurological Surgery
Research Program: Cancer Therapeutics & Immuno-Oncology
Email: david.tran@neurosurgery.ufl.edu

- *Understanding the mechanism of cancer metastasis and dormancy*
 - *Determine the role of mesenchymal factors in primary malignant brain tumors*
 - *Translational/clinical research in neuro-oncology*
 - *Genomic bioinformatics & computational biology*
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Jose G. Trevino, MD

Department: Surgery
Research Program: Cancer Population Sciences
Email: jose.trevino@surgery.ufl.edu

- *Pancreatic cancer tumor biology*
 - *Pancreatic cancer cachexia*
 - *Pancreatic cancer health disparities*
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John R. Wingard, MD

Department: Hematology/Oncology
Research Program: Cancer Therapeutics & Immuno-Oncology; Cancer Population Sciences
Email: wingajr@medicine.ufl.edu

- *Optimizing outcomes of hematopoietic cell transplantation, by exploring new immunosuppressive regimens, cellular adoptive immunotherapy, exploration of cord blood as a stem cell source, reducing infectious complications*
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Mingyi Xie, PhD

Department: Biochemistry & Molecular Biology
Email: mingyi.xie@ufl.edu

- *Gene expression regulation by non-coding RNAs*
 - *Unique modes of miRNA biogenesis, including Integrator-mediated RNA metabolism*
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Chengguo (Chris) Xing, PhD

Department: Medicinal Chemistry
Research Program: Cancer Therapeutics & Immuno-Oncology
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- *Isolation, design and synthesis, and identification of biologically active small molecules, employing such candidates as probes to tackle fundamental questions in tumorigenesis and cancer biology, and evaluating their clinical potentials*
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