

## Research Opportunities for Students

*Last Updated 03/03/2020*

Faculty Name	Contact Information (Email/Phone)	Research Interest	Potential Project	Research Funding Source
<b>FIU Herbert Wertheim College of Medicine - Basic Science Departments</b>				
<b>Department of Cellular Biology and Pharmacology</b>				
Gagani Athauda, MD	gathauda@fiu.edu 305-348-1474	(i) Warfarin Pharmacogenetics Case-Based Learning (Co-PI) (ii) Integration of Clinical Science and Pharmacology in Osteoporosis Education (PI) (iii) Risk Communication with a Standardized Patient in Contraceptive Pharmacology (co-PI) (iv) Integration of a Clinical case with Basic Pharmacology to teach Cancer Chemotherapy in a 2nd year Hematopoietic/Lymphoreticular Course (PI) (v) Assessing the effects of an integrated longitudinal approach to the teaching of anti-microbial pharmacology (PI) (vi) Exploring the role of a simulation based clinical activity in the teaching of introductory pharmacology (Co-PI)	-	-
Jenny Fortun, PhD	jfortun@fiu.edu	Medical Education, Neuroscience	Role of types of assessments (including formative assessments and written exams) on knowledge acquisition and study habits, and the impact of active learning pedagogies on knowledge	-
Saby Moulik, PhD	smoulik@fiu.edu	Medical Education	-	-
Venkadesh Nadar, PhD	vsarkara@fiu.edu 305-348-1477	Structural biology, biochemistry, in-silico/computational docking, drug development	-	-
Barbra Roller, PhD	rollerb@fiu.edu	-	-	-
Barry P. Rosen, PhD	brosen@fiu.edu 305-348-0657	Arsenic biotransformations and bioremediation. Multidisciplinary approach from gene discovery to biochemistry/enzymology to x-ray crystallography.	-	NIGMS, NIEHS
Kunie Sakurai, PhD	ksakurai@fiu.edu 305-348-1479	Arsenic metabolism, toxicology, gene regulation in mammals	-	-
Masafumi Yoshinaga, PhD	myoshina@fiu.edu 305-348-1489	Environmental microbiology, biochemistry, arsenic biogeochemical cycle, antibiotics and resistance. Molecular mechanisms of arsenic detoxification and arsenic-based antibiotics synthesis by bacteria. Current projects: (i) Molecular mechanisms of degradation of environmental organoarsenical herbicides and growth promoters. (ii) Pathways and molecular mechanisms of activation/synthesis and detoxification of organoarsenic antibiotics.	-	NSF
<b>Department of Human and Molecular Genetics</b>				
Alexander Agoulnik, PhD	aagoulni@fiu.edu 305-348-1483	Drug discovery, G protein-coupled receptors (GPCR) signaling Reproductive hormones, testicular cancer. Small molecule modulators of GPCRs.	-	NIH
Irina Agoulnik, PhD	iagoulni@fiu.edu 305-348-1475	Breast, Ovarian, and Prostate Cancer	-	NIH
Zuanel Diaz, PhD	zuaneld@baptisthealth.net 305-491-8930	Development of large-scale oncology platforms for conducting biology-driven clinical trials with biomarker endpoints	-	Baptist Health South Florida
Wenrui Duan, PhD	wduan@fiu.edu 305-348-9135	Developing cell and animal models for targeted therapy in cancers. Developing novel biomarkers for identification of subgroups of patients who are most likely to respond to treatment of novel anticancer agents.	-	Baptist Health South Florida

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Kalai Mathee, MPH, PhD	matheek@fiu.edu 305-348-0628	Molecular pathogenesis of Pseudomonas aeruginosa, antimicrobial resistance, carbon metabolism, comparative genomics, microbiome, and drug discovery.	-	NIH
Hooi Hooi Ng, PhD	hoong@fiu.edu	Vascular Biology	-	NIH, AHA
Joe Leigh Simpson, MD	simpsonj@fiu.edu 305-348-0616	Reproductive genetics, prenatal genetic diagnosis and birth defects	-	-
Helen Tempest, PhD	htempest@fiu.edu 305-348-1484	Focus on nuclear architecture, specifically how chromatin is organized within the interphase nucleus. Projects include: (i) Studying nuclear organization throughout spermatogenesis to determine the role and pattern of chromatin organization throughout cell differentiation, fertilization and embryogenesis; (ii) Examining how chromatin organization changes in response to DNA damage and repair; (iii) Researching whether unique patterns of organization can be utilized as novel diagnostic and prognostic tools in disease (e.g. ovarian cancer)	-	NIH
Tracey Weiler, PhD	tweiler@fiu.edu 305-348-4993	Population genetics, genetics case reports, direct to consumer genetics education, medical genetics education strategies, medical student education strategies, post-baccalaureate premed education strategies, faculty development strategies	<ul style="list-style-type: none"> <li>Florida county incidence of disorders included in newborn screening program and/or the birth defects registry</li> <li>Genotype phenotype correlation of pediatric cardiac ICU patients using array CGH data</li> </ul>	-
<b>Department of Immunology and Nano-Medicine</b>				
Marisela Agudelo, PhD	magudelo@fiu.edu 305-348-6503	Alcohol Abuse/ dendritic cell function	Neuro-immunological effects of alcohol and synthetic cannabinoids with emphasis on human dendritic cells	NIAAA
Venkata Atluri, PhD	vatluri@fiu.edu 305-348-6020	(i) Molecular neuropathogenesis of HIV infection in HIV infected drug abusers (ii) Neuroprotective role of Withaferin A in Alzheimer's disease treatment	Use of small molecule drugs targeting inflammasome mediated neuroinflammation in HIV infected drug abusers	-
Hitendra Chand, PhD	hchand@fiu.edu 305-348-1472	Airway remodeling and Chronic Mucous Hypersecretion in Asthma and COPD (i) Role of HIV-1 infection and substance abuse in chronic airway disease (ii) Targeting chronic diseases with nanotechnology - Inhalational Nano-delivery	-	NIH/NIAID, American Lung Association
Nazira El-Hage, PhD	nelhage@fiu.edu 305-348-4346	(i) Inflammation & Autophagy (ii) HIV & NeuroAIDS (iii) Zika Virus & Neurodegeneration (iv) Development of nano- therapeutics (v) Addiction & Substance abuse	-	NIH/NIDA, Florida Department of Health
Nagesh Kolishetti, PhD	nkolishe@fiu.edu 305-348-4857	Nanomedicine, targeted drug delivery, polymers, HIV, and cancer	-	FIU Foundation
Madhavan Nair, PhD	nairm@fiu.edu 305-348-1493	Substance Abuse, HIV, interactive role of recreational drugs and HIV-1 infection on human immune system.	-	NIH, Florida Department of Health
Andrea Raymond, PhD	adraymon@fiu.edu 305-348-1490	Role of exosome extracellular vesicles in opiate abuse and HIV neuropathogenesis	-	NIH
Myosotys Rodriguez Martinez, PhD	myrodrig@fiu.edu 305-348-4524	Autophagy in the pathogenesis of HIV-neurodegenerative disorders	-	-
Madepalli K Lakshmana, PhD	mlakshmana@fiu.edu 305-348-7656; 305-348-4978	Alzheimer's disease; neurodegenerative diseases such as amyotrophic lateral sclerosis (ALS)	-	-
Asahi Tomitaka, PhD	atomitaka@fiu.edu 305-348-6855	Nanobiotechnology and Nanomedicine; Molecular imaging and Image-guided therapy; Regenerative medicine; Magnetic and optical neural interfaces; Nanomagnetic applications including Bio-sensor; Magneto-plasmonic and magneto-electric nanoparticles	-	-

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Arti Vashist, PhD	avashist@fiu.edu 305-348-7438	Micro/nanogels for drug delivery systems and imaging applications, biodegradable polymers, biomaterials, Carbon nanotubes, thin films and related nanotechnology areas	-	-
Hoshang Unwalla, PhD	hunwalla@fiu.edu 305-348-3442	Lung cancer and pulmonary complications in people living with HIV	-	Flight Attendant Med Research, NIH, DoD
<b>FIU Herbert Wertheim College of Medicine - Clinical Departments</b>				
<b>Department of Anesthesiology</b>				
Gerald Rosen, MD	gerald.rosen@msmc.com 305-674-2345	(i) Comparison of four techniques of mask ventilation in inexperienced providers (ii) Comparison of Techniques of Mask Ventilation in Healthcare Care Providers	-	Mt. Sinai Medical Center
S. Howard Wittels, MD	s.wittels@fiu.edu 305-348-7977	(i) EKG Evaluation using Fast Fourier Transform in Normals, Stemi, and Stress Cardiomyopathy (ii) Survey on Dealing with end of life /Death issues in the OR (iii) Evaluating effectiveness of Personal Protection Equipment in the OR (iv) Effectiveness of Hand washing in spreading Disease (v) Comparing traditional EKG to PPG for Rate and Rhythm	-	Mt. Sinai Medical Center
<b>Department of Dermatology</b>				
Mercedes Florez-Whie, MD	mflorezw@fiu.edu 305-348-3627	Clinical research database survey	-	-
Martin Zaiac, MD	mzaiac@fiu.edu 305-532-4478, Ext. 227	Clinical research database survey	-	-
<b>Department of Emergency Medicine and Critical Care</b>				
Robert Levine, MD	rlevine@fiu.edu 305-348-1662	Clinical research database survey	-	-
<b>Department of Humanities, Health, and Society</b>				
Frederick Anderson, MD	fwanders@fiu.edu 305-348-4840	(i) Quality Improvement and Population Health based approaches to improve care for underserved populations. (ii) Oral Health in the NeighborhoodHELP program (iii) Medico-Legal Partnership in NeighborhoodHELP (iv) Telemedicine approaches to improve access to care for the underserved (v) Collaborative Care approaches with behavioral health and physician extenders for chronic disease management Dr. Anderson particularly interested in leveraging health information technologies when possible to improve care delivery to the underserved and in innovative clinical delivery models. He would be interested in working on projects employing existing data sets (Centricity EMR, Portal) and in incorporating students into ongoing quality improvement (QI) efforts or to apply QI approaches to their community initiatives.	-	-
Julia Bisschops, MD, MSc	jbisscho@fiu.edu 843-743-6213	(i) Medical Education: EPA 1 in preclinical years, evaluation and assessments, connecting clinical medicine to basic science, Evidence based medicine (ii) Health care for Underserved population (iii) Global Health (iv) Environmental Health (v) Case reports based on patient care in the Primary Care office	-	-
Luther Brewster, PhD	brewster@fiu.edu 305-919-4245	Community based participatory research	-	AETNA Foundation

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David Brown, MD	drbrown@fiu.edu 305-348-8388	(i) NeighborhoodHELP related initiatives (ii) Social science and medicine, social determinants of health, population health, policy (iii) Integrated primary care, behavioral health, prevention, and social services (iv) Tobacco, obesity, nutrition, women's health, musculoskeletal health, fitness, and wellness (v) Development, implementation, improvement, and evaluation of curricula and programs (vi) Competency based education and entrustment (vii) Qualitative, mixed, participatory, and transdisciplinary methods	-	AAMC
Katherine Chung, MD,MPH	kchung@fiu.edu 305-348-9171	(i) Breast cancer in underserved groups (ii) Linda Fenner 3D Mobile Mammography Data Analysis	-	Allegany Franciscan Ministries
Jamie Fairclough, PhD	jfairclo@fiu.edu	Education, Accreditation, Assessment	-	-
Marin Gillis, PhD, LPh	mmgillis@fiu.edu 305-348-4193	(i) Scholarship of health education: (ii) Teaching critical thinking (iii) Clinical ethics including shared decision making and advance care planning/end of life (iv) Teaching to address cognitive bias (v) Teaching medical humanities in addition to research on career advancement for women in academic medicine.	-	-
Pedro Greer, MD	greerp@fiu.edu 305-348-0619	(i) The Academy: Policy analysis and valuation of health system intervention (ii) NHELP: South Miami Project: outcomes (iii) Intervention in patients with fatty liver to decrease co-morbidities	-	-
Cheryl Holder, MD	clholder@fiu.edu 305-348-7685	(i) Evaluation of STEM Saturday (pipeline/mentoring program) (ii) Knowledge Assessment of health careers in children (iii) HIV prevention in vulnerable populations	-	-
Kendra Kirchmer, MFA	kkirchme@fiu.edu 305-348-4193	(i) Design thinking in medicine (ii) Application of human-centered design principles within care environments for quality improvement in patient, household, community, and provider outcomes as well as innovation in medical education.	-	-
Onelia Lage, MD	olage@fiu.edu 305-348-4823	(i) Community Engaged Physician Interprofessional evaluation and EPA 9 in NeighborhoodHELP (AMA Accelerating Change in medical education consortium) (ii) Adverse childhood events in the NeighborhoodHELP population	-	AMA
Vivian Obeso, MD	vobeso@fiu.edu	Medical Education	-	-
Liana Perez Loughlin, JD	lperezlo@fiu.edu 305-919-4193	(i) Educational interventions to develop shared decision making in obstetrics (ii) Medical student perceptions of the impact of the law	-	-
Fernando Vargas Madueno, MD	fernandovargas@baptisthealth.net 267-616-9197	Medical oncologist supporting clinical trials	-	-
Arelis Martir-Negron, MD	arelisma@baptisthealth.net 786-527-8218	(i) Obtain comprehensive data on the prevalence and nature of BRCA mutations in the Hispanic Population (ii) Assess the cognitive, social and cultural factors influencing perceived access to desired cancer screening, test the cognitive-social model of perceived access andn evaluate changes in breast and ovarian cancer screening.	-	-
Suzanne Minor, MD	seminor@fiu.edu 305-348-1455	Medical education and faculty development.	-	-

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Maryse Pedoussaut, MD	mpedouss@fiu.edu 305-348-7865	(i) Integrative oncology (ii) Dysbiosis/ Leaky gut and impact of anti inflammatory diet on microbioma (iii) Motivational Interviewing (iii) Obesity/ chronic disease/ impact of group visit (iv) Evaluation of STEM Saturday (v) MEDSWISH and community Health	-	-
Andres Rodriguez, MD	arodr119@fiu.edu 305-348-9062	(i) NeighborhoodHELP related initiatives (ii) Social science and medicine, social determinants of health, population health, policy	-	-
Gregory Schneider, MD	gschneid@fiu.edu 305-348-9166	(i) Quality improvement interventions to improve provision of preventive services; (ii) health equity research, particularly in relation to food insecurity/access to healthy food; and (iii) scholarship of teaching and learning in medicine, especially in regard to using literature to teach medical ethics and the doctor-patient relationship.	-	-
Randal Silbiger, MD	rsilbige@fiu.edu 305-348-4542	(i) Issues important in evaluating patients identified as LGBTQ+ (ii) Primary care needs of people living with HIV (iii) Role of Spirituality in patient wellness (iv) End of Life Care (v) Addressing (assessing and managing) a patient's risk of injury and death from accidents in the home or from lifestyle factors (e.g. gun safety) and the community benefit of educating patients about gun safety (vi) Community interventions for individual and public health (Stop the Bleeding, Teaching CPR to patients' family members, Narcan availability in the home for patients at risk of OD) (vii) Ethical issues when a physician's recommendations may conflict with laws or religious/cultural practices. (viii) Developing an evidence based curriculum to teach medicinal uses of cannabis products and its effects on society. (ix) Expanding the target age group for HPV vaccine - (x) Improving office efficiency while using EHR's	-	-
Sarah Stumbar, MD	sstumbar@fiu.edu 305-348-7973	<b>Clinical:</b> Sexual and reproductive health, with a particular focus on long-acting reversible contraception (IUDs and implants) and abortion in the primary care setting. <b>Educational:</b> Effective educational modalities regarding LGBTQAI and sexual/reproductive health and Family Medicine education	-	-
Rebecca Toonkel, MD	rtoonkel@fiu.edu 305-348-0669	<b>Educational Research</b> (i) Evaluation of a 4 year longitudinal training program for BLS/ACLS skills in medical students and integrated curriculum of antibiotic teaching (iii) Evaluation of an online learning platform for self-directed distance learning in 4th year medical students (iv) Evaluation of integrated case based approach to Musculoskeletal anatomy and to Chemotherapeutics comparison of small vs. large groups <b>Medical Research</b> (i) Efficacy/complications of brachytherapy for the treatment of prostate cancer (ii) Use of mesenchymal stem cells to treat of Idiopathic Pulmonary Fibrosis.	-	-
Heidi Von Harscher, PhD	vonharsc@fiu.edu	Humility, Resilience, Burnout, Empathy	-	-

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<b>Department of Interventional Radiology</b>				
Raul Herrera, MD	raulh@baptisthealth.net 786-596-3505	<ul style="list-style-type: none"> <li>(i) Predictors of Complete Heart Block after Trans Aortic Valve Replacement (TAVR) procedures: This is a prospective evaluation of post procedural AH and/or HV interval changes in electro conductivity through the bundle of His to determine association with new onset of Atrio - Ventricular Block in patients undergoing TARVR at the MCVI.</li> <li>(ii) The "Iron Study": Prospective, Non-blinded, Observational Evaluation of the use of Ferumoxytol-enhanced MRA for cardiovascular imaging in patients with renal dysfunction. The purpose of this study is to provide important information regarding the feasibility of the use of Ferumoxytol-enhanced MRA in Patients with AKI or CKD Stage 4 or 5.</li> <li>(iii) Cardiogenic Shock Initiative: A prospective non randomized trial to evaluate a new treatment algorithm during Cardiogenic Shock. The protocol involves early Impella use prior to PCI and Right Heart Catheter monitoring in AMI-Cardiogenic Shock.</li> <li>(iv) Outcomes evaluation of unique Innovative Interventional Cardiology technology system to correlate a precision guidance system with clinical decision making during percutaneous coronary interventions at MCVI.</li> <li>(v) Outcomes evaluation of multiple Cardiac Electrophysiology interventions for patients with paroxysmal atrial fibrillation not responding to clinical therapy.</li> </ul>	-	NIH; Baptist Health South Florida
Barry Katzen, MD	katzenba@fiu.edu 305-348-9280	<ul style="list-style-type: none"> <li>(i) CREST 2 Trial: Carotid Revascularization and medical management for asymptomatic carotid Stenosis Trial</li> <li>(ii) Prospective Non-blinded Study to Determine the Relationship between Ablation Therapy for Atrial Fibrillation (AF), Quality of Life and AF Specific Symptoms at 1 year.</li> <li>(iii) Venous access history of patients to identify and provide knowledge to clinicians on patients who are undergoing interventional procedures.</li> <li>(iv) AAA Database Data mining study on the genetic evaluation of individuals with AAA disease in the same family.</li> <li>(v) Tissue bank of Aortic valve leaflet collection following surgical resection for the evaluation of neurological formations and correlation of their clinical relevance in Aortic valve disease.</li> <li>(ix) Short pilot study designed to provide important information regarding the feasibility of the use of Ferumoxytol-enhanced MRA in Patients with AKI or CKD Stage 4 or 5.</li> <li>(x) A retrospective study to provide Retrospective Non-blinded Study Comparing the Clinical Outcomes of Percutaneous Mitral Valve Repair Therapy with the MitraClip Device for Functional Mitral Regurgitation</li> </ul>	-	NIH-NINDS; Baptist Health South Florida
<b>Department of Obstetrics and Gynecology</b>				
Sheldon Cherry, MD	shcherry@fiu.edu 305-348-4370	Clinical/applied research in obstetrics and gynecology	-	-
Yolangel Hernandez-Suarez, MD	yolahern@fiu.edu	Health Policy, Health Administration	-	-

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Manuel Penalver, MD	mapenalv@fiu.edu 305-663-7001	Analytical Research studies (i) Vaginal cuff complications after robotic hysterectomy with barbed vs non-barbed suture (ii) Does postoperative antibiotics decrease postoperative infectious morbidity after robotic or laparoscopic hysterectomy (iii) Detection rate of sentinel lymph node in endometrial and cervical cancer utilizing indocyanine green (ICG) fluorescence imaging vs methylene blue. (iv) ERAS Protocol in Benign Robotic Hysterectomies (v) Comparison of same day vs overnight stay robotic hyst: complications, and cost analysis (vi) Port site hernia after robotic hysterectomy 3 vs 4. (vii) Post-op complication rate for combined abdominoplasty and hysterectomy procedures	-	Baptist Health South Florida
Carolyn Runowicz, MD	crunowic@fiu.edu 305-348-0616	(i) Breast, Ovarian Cancer Research (ii) Nanotechnology drug delivery system (iii) Training grant in health disparities	-	-
Joe Leigh Simpson, MD	simpsonj@fiu.edu 305-348-0616	Reproductive genetics, prenatal genetic diagnosis and birth defects	-	-
<b>Department of Ophthalmology</b>				
Pedro Lopez, MD	miamiretina@bellsouth.net 305-815-3789	Retinal disorders and optical imaging	-	-
Jessica Ramella-Roman, PhD	jramella@fiu.edu 305-348-3015	Optical imaging for biology. Use of non invasive microscopic techniques such as two photon and second harmonic microscopy for the characterization of disease	-	FIU Foundation
William Trattler, MD	wtrattler@gmail.com 305-598-2020	Refractive surgery and keratoconus	-	-
Scheffer Tseng, MD, PhD	stseng@ocularsurface.com 305-348-7977	Cornea and ocular surface disease	-	-
<b>Department of Orthopedics</b>				
John Uribe, MD	jwuribe@fiu.edu 305-348-7977	Prospective studies being planned for research projects: (i) Anterior Cruciate Ligament Reconstruction with the Hybrid Technique. (ii) Anterior Cruciate Ligament Reconstruction With Fresh Frozen Allograft. (iii) Use of Biologics ( PRP, Stem Cells) in Tendinopathies, and other orthopedic pathologies.	-	
Luis Vargas, MD	luisva@baptisthealth.net 305-467-7698	Clinical research database survey	-	
<b>Department of Pathology</b>				

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Amilcar Castellano-Sanchez, MD	castelam@fiu.edu 305-348-7977	(i) Correlating the Gross Measurement with the Microscopic Measurement on Core Needle Biopsies and Surgical Excisions for The Assessment of Tumor Size in Breast Carcinoma (ii) Heparin induced thrombocytopenia ordering practices at Mount Sinai Medical Center (iii) Assessment of the uncinat margin in pancreaticoduodenal resection specimen: what is the correlation between patterns of nerve invasion and recurrence? (iv) Usefulness of neutrophilic markers and the Von Kossa and Masson's Trichrome stains in the postmortem diagnosis of pancreatitis. (v) Clinicopathological correlation of vimentin staining patterns in acute kidney injury: a surrogate marker of tubular regeneration/ injury?	-	-
John Alexis, MD	john.alexis@msmc.com 305-674-2277	Dermatopathology/Immunohistochemistry	-	-
Lydia Howard, MD	lydia.howard@msmc.com 305-674-2277	Cardiovascular Pathology, Transfusion Medicine	-	-
Ana Maria Medina, MD	ana.medina@msmc.com 305-674-2277	Cytopathology and Hematopathology	-	-
Yumna Omarzai, MD	yumna.omarzai@msmc.com 305-674-2277	Urologic and Cytopathology	-	-
Robert Poppiti, MD	Robert.Poppiti@msmc.com	Research in anatomic pathology.	-	-
Monica Recine, MD	monica.recine@msmc.com 305-674-2277	Gynecological and Cytopathology, Microbiology	-	-
Vathany Sriganeshan, MD	vathany.sriganeshan@msmc.com 305-674-2277	Hematopathology, Bone & Soft Tissue	-	-
Cristina Vincentelli, MD	cristina.vincentelli@msmc.com 305-674-2277	Endocrine and Neuropathology	-	-
<b>Department of Pediatrics</b>				
Jefry Biehler, MD	jbiehle@fiu.edu 786-624-2890	Clinical research database survey	-	-
Redmond Burke, MD	redmond.burke@mch.com 305-348-7977	Cardiovascular Surgery	-	-
Alejandro Diaz, MD	alejandro.diaz@mch.com 305-348-7977	Endocrinology	-	-
Kristine Guleserian, MD	kristine.guleserian@mch.com 305-348-7977	Cardiovascular Surgery	-	-
Vivian Hernandez-Trujillo, MD	vivian.hernandez-trujillo@mch.com 305-348-7977	Allergy Immunology	-	-
Julie Kantor, MD	jkantor@fiu.edu 305-348-7977	General Pediatrics	-	-
Jason Katz, MD	jason.katz4@fiu.edu 305-348-7977	Cardiac Critical Care	-	-
Keith Meyer, MD	keith.meyer@mch.com 305-348-7977	Critical Care Medicine	-	-
Alisa Muñiz Crim, MD	alisa.muñizcrim@mch.com 305-348-7977	Gastroenterology	-	-
Jesse Reeves-Garcia, MD	jesse.reeves-garcia@mch.com 305-348-7977	Gastroenterology	-	-
Anthony Rossi, MD	anthony.rossi@mch.com 305-348-7977	Cardiology	-	-



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Balagangadhar Totappally, MD	balagangadhar.totappally@mch.com 305-348-7977	Critical Care Medicine	-	-
<b>Department of Psychiatry and Behavioral Health</b>				
Rodolfo Bonnín, PhD	rbonnin@fiu.edu 305-348-0660	Nervous System and Behavior	-	-
Carissa Caban-Aleman, MD	ccabanal@fiu.edu 305-348-3890	Integrated care, with a focus on the homeless population	-	-
Eduardo Camps-Romero, MD	ecampsro@fiu.edu 305-348-7674	Social science, behavioral health and medicine with a focus on the Green Family Foundation NeighborhoodHelp household centered model of care, social determinants of health, integrated socio-beahvioral primary care and population health. Interested in working on projects using existing data sets (EMR, NHELP Portal/Health Risk Profile, etc.), and on data collection studies or on further exploring how resilience, spirituality, meditation, could be employed and studied, both qualitatively and quantitatively, in NeighborhoodHELP.	Major depression, generalized anxiety disorder and social determinants of health in NeighborhoodHELP	-
Daniel Castellanos, MD	dcastell@fiu.edu 305-348-4147	Flakka, substance abuse, child and adolescent psychiatry	-	-
Karin Esposito, MD, PhD	kesposit@fiu.edu	Psychiatry, medical education	-	-
Adriana Foster, MD	adfoster@fiu.edu 305-348-8463	Suicide; Communication in healthcare; simulation in healthcare (i) Schizophrenia	-	-
Leonard Gralnik, MD, PhD	gralnikl@fiu.edu 305-348-4841	Suicide Prevention	-	-
Francisco Quintana, PhD	fquintan@citrushealth.com 305-825-0300	(i) Stigma against mental illness; (ii) Chronic severe mental illness; (iii) People who are homeless and have mental illness	-	-
Eugenio Rothe, MD	erothe@fiu.edu 305-348-3627	(i) Child and Adolescent Psychiatry, (ii)Forensic (Medical-Legal) Psychiatry	-	-
Margaret Sibley, PhD	msibley@fiu.edu 305-348-3005	Attention-Deficit/Hyperactivity Disorder (ADHD)	-	Institute of Education Sciences, NIH/NIMH,
<b>Department of Radiation Oncology</b>				
Minesh Mehta, MD	mineshm@baptisthealth.net 786-527-8029	Clinical research database survey (i) demonstrating clinical benefit from advanced radiation technologies such as proton therapy (ii) exploring novel combinations of radiation and other agents (i.e. radiosensitizers, immunotherapy, targeted agents, nanotechnology, etc.) (iii) technologies or devices that mitigate radiation toxicity - as an example I am discussing a clinical trial with Anuradha Godavarty at FIU involving optimal imaging to assess radiation dermatitis after application of a skin cream in breast cancer patients (iv) comparative/cost effectiveness analyses	-	-
Andre Abitol, MD	andreaa@baptisthealth.net 786-594-7744	Advance Care for Head and Neck Cancers with Personalized Treatment	-	-
Michael Chuong, MD	michaelchu@baptisthealth.net 786-527-8140	(i)Advanced radiation technologies for GI cancers including stereotactic body radiation therapy, MR-guided radiation therapy, and proton therapy (ii) Yttrium-90 radioembolization of liver tumors (iii)Radiation and immunotherapy combinations	-	-

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Jessika Contreras, MD	jessikaAC@baptisthealth.net	Gynecological cancers	-	-
Marcio Fagundes, MD	marciof@baptisthealth.net 786-594-7744	Proton therapy to reduce toxicity in breast and prostate cancer patients; hydrogel spacer to reduce rectal toxicity in prostate cancer patients	-	-
Jerry George, PhD	jerryge@baptisthealth.net 786-594-7744	Yttrium-90 liver radioembolization dosimetry	-	-
Alonso Navar Gutierrez, PhD	alonsog@baptisthealth.net 786-527-7631	Chief of medical physics; (i) Patient surface monitoring to improve accuracy of radiation therapy (ii) Techniques to enhance motion management of moving tumors (iii) Developing online adaptive MR-guided radiation therapy workflow (iv) Developing novel proton therapy applications for challenging cases	-	-
Matthew Hall, MD	matthewha@baptisthealth.net 786-594-7744	Advanced radiation technologies for pediatric and CNS cancers including stereotactic body radiation therapy and proton therapy; minimizing radiation-induced toxicity in pediatric patients; radiation therapy and novel systemic therapy combinations	-	-
Murugesan Manoharan, MD	mmanoharan@baptisthealth.net	Urology	-	-
Rupesh Kotecha, MD	rupeshk@baptisthealth.net 989-708-1609	Novel applications of radiation therapy for cardiac arrhythmias; stereotactic radiosurgery for brain tumors; hippocampal avoidance in CNS patients; proton therapy for CNS and lung tumors; radiation and immunotherapy combinations	The role of advanced radiation therapy techniques for patients with CNS tumors	-
D. Jay Wieczorek, PhD	djayw@baptisthealth.net 786-594-7278	Senior Medical Physicist responsible for radiation oncology instrumentation	-	-
Jen Yu, PhD	jeny@baptisthealth.net 786-594-7227	Therapeutic medical physics	-	-
<b>Department of Radiology</b>				
Joseph Ambrose, MD	jambrose@fiu.edu 305-348-7977	Clinical research database survey	-	-
Guilherme Dabus, MD	guilhermed@baptisthealth.net 786-596-5990	(i) HEAT Trial: New Generation Hydrogel Endovascular Aneurysm Treatment Trial (ii) SCENT Trial: The Surpass IntraCranial Aneurysm Embolization System Pivotal Trial to Treat Large or Giant Wide Neck Aneurysms (iii) PREMIER Trial: Prospective Study on Embolization of Intracranial Aneurysms With Pipeline™ Embolization Device	-	Northwestern University; Stryker; Covidien
Frederico Souza, MD	frederico_souza@mednax.com 617-320-7959	Radiology, oncologic imaging	-	-
<b>Department of Surgery</b>				
Seza Gulec, MD	sgulec@fiu.edu 305-348-0570	Research Programs in pancreatic and liver cancer	-	Rupe Foundation Rinker Foundation
Michael Zinner, MD	michaelzi@baptisthealth.net 786-527-8010	Pancreatic-hepatobiliary diseases	-	NIH
<b>Department of Translational Medicine</b>				
Noel C Barengo, MD, PhD	nbarengo@fiu.edu 305-348-4356	Epidemiological research in physical activity, diabetes, cancer, hypertension	-	-
Paulo Chaves, MD, PhD	pdehendo@fiu.edu 305-348-4789	Benjamin Leon Jr Family Center for Geriatric Research & Education	-	-
Dorothy Contiguglia-Akcan, MD	dcontigu@fiu.edu 305-348-9072	Primary care, international/global health, travel medicine, public health, disaster health	-	-

Faculty Name	Contact Information (Email/Phone)	Research Interest	Potential Project	Research Funding Source
Charles Dimitroff, PhD	cdimitroff@fiu.edu 305-348-9069	Studies on mechanisms of immunity and of cancer progression	<ul style="list-style-type: none"> <li>Is galactose-binding lectin and immune checkpoint inhibitor, galectin-9 (Gal-9), a key regulator in B cell differentiation and growth- and effector function-related activities</li> <li>Can binding and downstream immunoregulatory function of galactose-binding lectin and immune checkpoint inhibitor, galectin-9 (Gal-9) in effector T cells be neutralized by overexpression of I-branching enzyme GCNT2</li> <li>Does loss of GCNT2 result in a melanoma that is more prone to metastasize and result in poor prognosis</li> </ul>	NIH/NIAID and NIH/NCI
Guenther Koehne, MD	guentherk@baptisthealth.net 305-348-0669	(i) Bone Marrow Transplantation and Hematologic Oncology (ii) Treatment of leukemia, myelodysplastic syndrome, multiple myeloma and other lymphoproliferative diseases, both with autologous and allogeneic stem cell transplantations	-	-
Juan Lozano, MD, MSc.	jlozanol@fiu.edu 305-348-6063	Clinical pediatrics, mostly acute respiratory infections (pneumonia and bronchiolitis), acute diarrhea and neonatology; Knowledge translation (accelerating the uptake of health research results by practitioners and policymakers)	-	-
Amir Mahajer, DO	amir.mahajer@gmail.com 786-596-2225	Transforaminal epidural injections with platelet-rich plasma versus steroid in the treatment of lumbar radiculopathy.	-	Baptist Health South Florida
Aileen Marty, MD	amarty@fiu.edu	Infectious Disease, Disaster Medicine	-	-
Jorge Camilo Mora, MD	jcmora@fiu.edu 305-348-0685	(i) Geriatric Medical Education (ii) Clinical Nutrition (iii) Patient safety (iv) Polypharmacy (v) Mild cognitive impairment & dementia	-	-
Yazmin Odia, MD	yazmino@baptisthealth.net 646-634-9655	Primary and secondary central nervous system neoplasms. Neuro-Oncology	-	Baptist Health South Florida
Juan Ruiz, MD	jruizpel@fiu.edu 305-348-4354	Preterm and low body weight infants health (Kangaroo Mother Care), secondary data analysis, Evidence-based quality assessment/assurance, medical decision making.	-	-
Marco Ruiz, MD, PhD	marcruiz@fiu.edu 504-905-1647	Biology of aging, malignant hematology and bone marrow transplant	-	-
Robert Sackstein, MD, PhD	kymartin@fiu.edu 305-348-0654	Glycoscience and carcinogenesis	-	NHLBI
Vitaly Siomin, MD	vitalys@baptisthealth.net 305-271-6159	(i) Brain tumors, skull base, neuroendoscopy, spine and epilepsy (ii) Neuro-Oncology	-	Baptist Health South Florida
Roland Tolchin, DO	rtolchin@fiu.edu 786-596-2225	Using PSOCQ as a predictor of improved pain scores and disability status for patients with chronic low back pain	-	Baptist Health South Florida
Marcia Varella, MD, PhD	mvarella@fiu.edu 305-348-7991	-	-	-
<b>Department of Urology</b>				
Alan Nieder, MD	anieder@fiu.edu 305-348-0570	(i) Renal cell cancer (ii) Bladder cancer (iii) Ureteral/kidney stones (iv) Men's health/propism/penile fractures	-	Mt. Sinai Medical Center
<b>Other FIU Departments</b>				

Faculty Name	Contact Information (Email/Phone)	Research Interest	Potential Project	Research Funding Source
<b>Department of Biological Sciences</b>				
Alejandro Barbieri, PhD	barbieri@fiu.edu 305-348-7535	Adipogenesis; specifically, students will investigate the effect of genes' expression involved on Insulin receptor signaling on the differentiation of pre-adipocyte into adipocyte in an vitro system (adipogenesis-fat formation).	-	-
<b>Department of Biomedical Engineering</b>				
Anthony J McGoron, PhD, AIMBE Fellow	mcgorona@fiu.edu	Synthesize and analyze mesoporous silica nanoparticles for applications in image guided drug delivery for cancer	-	-
<b>Department of Chemistry and Biochemistry</b>				
Yuk-Ching Tse-Dinh, Distinguished Professor	ytseinh@fiu.edu 305-348-4956	Drug discovery for cancer and infectious disease	-	-
Fenfei Leng, PhD	lengf@fiu.edu 305-348-3277	The mammalian high mobility group protein AT hook 2 and its role in tumorigenesis and adipogenesis; Transcription-coupled DNA supercoiling and targeting bacterial DNA gyrase for drug discovery; Starvation and stress response in Helicobacter pylori	-	-
Yuan Liu, MD	yuali@fiu.edu 305-348-3628	Interplay between DNA damage and repair and epigenetics in cancer development	-	-
Stanislaw Wnuk, PhD	wnuk@fiu.edu 305-348-6195	Synthesis of chemically modified short oligosaccharides (glycan) as potential targets for translate glycobiological	-	-
Jaroslava Miksovska	miksovs@fiu.edu 305-348-7406	-	-	-
<b>Biomolecular Sciences Institute</b>				
Jin He	jinhe@fiu.edu 305-348-4376	Biophysics and cardiac tissue	-	-
Jessica Ramella-Roman	jramella@fiu.edu 305-348-6950	Development of optical methodologies for preterm risk assessment and development of opto-thermal methodologies for determination of glaucoma risk	-	-
Matthew DeGennaro, PhD	mdegenna@fiu.edu 305-348-1358	Molecular mechanism of how mosquitoes find humans	-	-
<b>Department of Environmental Health Sciences</b>				
Muhammad M. Hossain, PhD	muhossai@fiu.edu 305-348-2327	Role of Endoplasmic reticulum (ER) stress in Neuroinflammation Following Pesticide Exposure	-	-