

IBS LAB ROTATION FACULTY AVAILABILITY 2021-2022

9.14.2021

Last	First	Cred	Inst	Email	Research Interests	Fall 21	Spr 22	Sum 22
						9/13-12/10	1/3-3/25	3/28-6/10
Bethony	Jeffrey	PhD	GW	jbethony@gwu.edu	Vaccine preclinical and clinical research, including clinical trials; controlled human infection models (hookworm); HIV/AIDs-associated malignancies; biospecimen science research.	Y	Y	Y
Bollard	Catherine	MD	CNHS	cbollard@childrensnational.org	Development of novel cell therapeutics for cancer and infection	M	M	M
Bosque	Alberto	PhD, MBA	GW	abosque@gwu.edu	Development of therapeutic strategies towards an HIV cure	Y	Y	Y
Bukrinsky	Michael	PhD	GW	mbukrins@gwu.edu	Molecular pathogenesis of HIV-associated metabolic diseases	Y	N	N
Chiappinelli	Kate	PhD	GW	kchiapp1@gwu.edu	Epigenetic regulation of immune signaling in cancer, specifically focusing on noncoding regions of the genome and the tumor cell immune response	Y	Y	Y
Chung	Inhee	PhD	GW	inheec@gwu.edu	Studies of underlying biophysical and biomechanical mechanisms of cancer metastasis and cancer dormancy, using cutting edge tools such as single-molecule tracking and super-resolution microscopy, in conjunction with conventional cell/cancer biology methods	Y	Y	Y
Colonnese	Matthew	PhD	GW	colonnese@gwu.edu	Circuit specializations of the developing brain	M	Y	Y
Corbin	Joshua	PhD	CNHS	JCorbin@childrensnational.org	Genetic and cellular basis for development of mammalian amygdala	N	Y	Y
Cruz	C. Russell	MD, PhD	GW	rcruz@gwu.edu	Development of immune based therapies for cancer and opportunistic infections for patients with various degrees of immune deficiency	M	M	M
Fabbri	Muller	MD, PhD	CNHS	mfabbri@childrensnational.org	Non-coding RNAs in exosomes and other extracellular vesicles and their role in cancer biology and therapy	—	Y	Y
Fiorillo	Alyson	PhD	CNHS	afiorillo@childrensnational.org	The role of dysregulated microRNAs in inflammatory muscle disorders	Y	Y	Y
Hashimoto-Torii	Kazue	PhD	CNHS	KHTorii@childrensnational.org	Environmental factors/pharmacological agents in fetal brain malformations related to mental illnesses in adulthood	N	N	Y
Heier	Chris	PhD	CNHS	cheier@childrensnational.org	Next generation drugs and biomarkers for childhood diseases	Y	Y	Y
Hsieh	Michael	MD, PhD	CNHS	mhsieh@childrensnational.org	Anti-pathogenic inflammation in the genitourinary tract induced by bacteria such as uropathogenic E. coli, and chronic inflammation mediated carcinogenesis using models of nitrosamine and Schistosoma haematobium exposure	Y	Y	Y
Hu	Yanfen	PhD	GW	huy3@email.gwu.edu	Germline mutations in BRCA1 predispose women to breast and ovarian cancers. Dr. Hu's research investigates: 1. What is the molecular mechanism of BRCA1 as a tumor suppressor? 2. Why do BRCA1-associated tumors display sex- and tissue specificity? 3. BRCA1-associated cancer treatment and therapeutic resistance.	N	Y	Y
Ishibashi	Nobu	MD	CNHS	Nshibas@childrensnational.org	Neurodevelopment and injury in congenital heart disease	Y	Y	Y
Jaiswal	Jyoti	PhD	CNHS	jkjaiswal@childrensnational.org	Cell biology of tissue repair and regeneration with a focus on muscle diseases; Cell biology of viral diseases	Y	Y	Y

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Jose	Pedro	MD, PhD	GW	pjose01@gwu.edu	Role of dopamine, adrenergic, and angiotensin receptors subtypes and dopamine regulatory genes (e.g., G protein-coupled receptor kinase 4 [GRK4], sorting nexins, gastrin) or sodium transport in specific nephron segments and their roles in the pathogenesis of genetic hypertension and metabolic syndrome	Y	Y	Y
Khan	Imtiaz	PhD	GW	imti56@gwu.edu	Immune responses to infections by opportunistic pathogens	Y	Y	Y
Lee	Jiyoung	PhD	GW	jiyounglee@gwu.edu	Molecular signaling for cancer metabolism and cancer metastasis	Y	Y	Y
Li	Rong	PhD	GW	rl69@gwu.edu	Molecular understanding of major risk factors for breast cancer	Y	Y	Y
Li	Wei	PhD	CNHS	wli2@childrensnational.org	Using genome editing technology (including CRISPR/Cas9 and CRISPR/Cas9 screening) and new computational algorithms to better understand how coding and non-coding elements function especially in human cancer, and to further identify novel molecular targets to inform precision medicine	Y	Y	Y
Lu	Hui	PhD	GW	huilu@gwu.edu	Mechanisms and rescue of neural circuit dysfunction	Y	Y	Y
Lynch	Rebecca	PhD	GW	rmlync@email.gwu.edu	Harnessing antibodies for HIV therapy and cure and flavivirus antibody responses.	N	Y	Y
Maggirwar	Sanjay	PhD, MBA	GW	smaggirwar@gwu.edu	Underlying mechanisms of HIV-associated illnesses such as thrombosis, atherosclerosis, cancers and neurocognitive impairments	Y	Y	Y
Marvar	Paul	PhD	GW	pmarvar@gwu.edu	Characterization of the neurocircuitry in the brain that contributes to stress-induced hypertension and other stress-related disorders such as PTSD	N	M	M
Mazumder	Raja	PhD	GW	mazumder@gwu.edu	Applied bioinformatics; comprehensive comparative analysis at the genomic level	Y	Y	N
Mendelowitz	David	PhD	GW	dmendel@gwu.edu	Focus on the autonomic nervous system, and particularly how this system is altered in cardiorespiratory diseases. Our overarching goal is to identify novel targets for treating diseases such as sleep apnea and heart failure.	Y	Y	Y
Pei	Yanxin	PhD	CNHS	YPei@childrensnational.org	Molecular mechanisms underlying tumor development and therapy resistance in pediatric brain tumors and identifying novel therapeutic approaches to treating the disease	Y	Y	Y
Polter	Abigail	PhD	GW	ampolter@gwu.edu	Circuit and synaptic-level effects of stress and adversity.	N	Y	Y
Posnack	Nikki	PhD	CNHS	nposnack@childrensnational.org	Cardiovascular physiology, pharmacology, and pediatric heart models	M	Y	Y
Rastogi	Deepa	MD	CNHS	drastogi@childrensnational.org	Investigation of T helper cell-mediated immunologic mechanisms underlying pediatric obesity-related asthma in urban minorities using multi-omics approaches.	Y	Y	Y
Seto	Ed	PhD	GW	seto@gwu.edu	Epigenetics; histone deacetylase (HDAC), enzymes that catalyze the removal of acetyl groups from the lysine residues of histones	Y	Y	Y
Shibata	Maho	PhD	GW	mshibata@gwu.edu	Prostate stem/progenitor cells, prostate organogenesis and cancer, patient-derived prostate cancer organoids	Y	Y	Y
Shook	Brett	PhD	GW	brettshook@email.gwu.edu	Molecular and cellular regulation of immune cells in mammalian skin	Y	Y	Y
Sidorov	Michael	PhD	CNHS	msidorov@childrensnational.org	Neural circuits and behavior in autism-like neurodevelopmental disorders; mechanisms of visual encoding and plasticity	N	Y	Y

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Torii	Masaaki	PhD	CNHS	MTorii@childrensnational.org	Molecular and cellular mechanisms that govern unique positioning and connections of various neuronal and glial subtypes in normal development of the cerebral cortex; etiology of cognitive and psychiatric disorders in which abnormalities in these processes may be involved.	N	N	Y
Zheng	Xiaoyan	PhD	GW	xzheng@gwu.edu	Identification of target genes regulated by the Hedgehog signaling pathway and molecular mechanisms activated by Hedgehog in regulating cell-cell interactions	Y	Y	Y
Zhu	Yuan	PhD	CNHS	yzhu@childrensnational.org	Using mouse models and human patient-derived induced pluripotent stem (iPS) cells to investigate the role of neural stem and progenitor cells in the pathogenesis of low-grade and high-grade gliomas as well as other nervous system tumors	Y	Y	Y
Zhu	Wenge	PhD	GW	wz6812@gwu.edu	DNA replication. DNA damage checkpoint and repair, histone modification, and identification of small molecules for cancer therapy	Y	Y	Y
Zohn	Irene	PhD	CNHS	IZohn@childrensnational.org	Developmental mechanisms mediating gene-environment interactions underlying structural birth defects such as spina bifida and congenital heart defects	N	Y	Y