## **IBS LAB ROTATION FACULTY AVAILABILITY 2023-2024**

2.7.24

* subject to changes / updat	es throughout the year
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Last	First	Cred	Inst	Email	Research Interests	Fall 23 9/11-12/8	Spr 24 1/8-3/22	Sum 24 3/25-6/7
Bethea	John	PhD	GW	jrb117@gwu.edu	Neuroimmune mechanisms of CNS injury and disease, the role of TNFalpha in spinal cord injury, translation of discovery into clinical application.	Ν	Y	Y
Bollard	Catherine	MD	CNHS	cbollard@childrensnational.org	Development of novel cell therapeutics for cancer and infection	Ν	Ν	Ν
Bosque-Pardos	Alberto	PhD, MBA	GW	abosque@gwu.edu	HIV cure research, strategies to enhance immune effector functions and eradicate latent HIV infection	Y	Y	Y
Bukrinsky	Michael	MD, PhD	GW	mbukrins@gwu.edu	Molecular pathogenesis of HIV-associated metabolic diseases	Y	Y	Y
Chiappinelli	Katherine	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	Ν	Ν	Ν
Chung	Inhee	PhD	GW	inheec@gwu.edu	Biophysical and biomechanical mechanisms of cancer metastasis and cancer dormancy, including single-molecule tracking and super-resolution microscopy	Ν	Ν	Y
Colonnese	Matthew	PhD	GW	colonnese@gwu.edu	Cellular and circuit mechanisms essential for plasticity in the developing brain	Y	Y	Y
Corbin	Joshua	PhD	CNHS	JCorbin@childrensnational.org	Genetic and cellular basis for development of mammalian amygdala	Ν	Ν	Ν
Cruz	Conrad Russell	MD,PhD	GW	crcruz@gwu.edu	Development of immune based therapies for cancer and opportunistic infections for patients with various degrees of immune deficiency	Ν	Ν	Y
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	Ν	N
Fernandes	Rohan	PhD	GW	rfernandes@gwu.edu	Immunoengineering approaches to treat cancer and HIV; nanoimmunotherapies and cell-based immunotherapies	Ν	Ν	N
Hashimoto-Torii	Kazue	PhD	CNHS	KHTorii@childrensnational.org	Environmental factors/pharmacological agents in fetal brain malformations related to mental illnesses in adulthood	Y	Y	Y
Haydar	Dalia	PhD	CNHS	dhaydar@childrensnational.org	investigating novel designs, additional genetic modifications, or combination therapies that will improve CAR T cells antitumor effects in pediatric brain tumors	Y	Y	Y
Haydar	Tarik	PhD	CNHS	thaydar@childrensnational.org	Cellular, molecular and behavioral analysis of forebrain development and intellectual disabilities using mouse models and human induced pluripotent stem cells.	Ν	N	N
Hsiao	Katie Kuangfu	PhD	CNHS	khsiao@childrensnational.org	Genomic-scale and circuit-level analysis of developmental disorders. In vivo neural activity recordings from synaptic inputs and output of targeted celltypes to decode mechanisms of learning and plasticity.	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	Ν	N	Ν
Hu	Yanfen	PhD	GW	huy3@gwu.edu	BRCA1 in breast and ovarian cancers, including the mechanism of BRCA1 as a tumor suppressor, BRCA1-associated tumor sex- and tissue-specificity, and BRCA1-associated cancer treatment and therapeutic resistance.	Ν	Y	Y
Ishibashi	Nobuyuki	MD	CNHS	NIshibas@childrensnational.org	Neurodevelopment and injury in congenital heart disease	Y	Y	Y

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Jaiswal	Jyoti K.	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	Ν
Jose	Pedro	MD, PhD	GW	pjose01@gwu.edu	Role of dopamine, adrenergic, and angiotensin receptors subtypes and dopamine regulatory genes or sodium transport in the pathogenesis of genetic hyptertension and metabolic syndrome	Y	N	Ν
Keller	Michael	MD	CNHS	mkeller@childrensnational.org	Adoptive immunotherapy and antiviral T cell immunity in immunocompromised patients	Ν	Ν	Ν
Lee	Jiyoung	PhD	GW	jiyounglee@gwu.edu	Molecular signaling mechanisms by which metastasis regulators modify gene expression and functional phenotypes in cancer.	Y	Y	Y
Lee	Norman H.	PhD	GW	nhlee@gwu.edu	Cancer disparities in the African American population using animal experiments and molecular biology; cancer genomics; molecular mechanisms of metastasis and cancer drug resistance; regulation of RNA splicing	Ν	N	N
Li	Rong	PhD	GW	rli69@gwu.edu	Molecular understanding of major risk factors for breast cancer	Y	Y	Y
Li	Wei	PhD	CNHS	wli2@childrensnational.org	Genome editing technology 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	Ν	М	М
Limperopoulos	Catherine	PhD	CNHS	climpero@childrensnational.org	Novel, patient-centered clinical and translational research in pregnant women and neurodiagnostic and neurodevelopmental surveillance in high-risk fetuses and preterm infants	N	N	N
Lu	Hui	PhD	GW	huilu@gwu.edu	Neural circuit dysfunction; circuit dysfunctions in MeCP2-deficient mice related to motor function, social interactions, and emotional states.	Y	Y	Y
Lynch	Rebecca	PhD	GW	rmlynch@gwu.edu	Harnessing antibodies for HIV therapy and cure and flavivirus antibody responses.	Y	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	Ν	Y	Y
Mazumder	Raja	PhD	GW	mazumder@gwu.edu	Applied bioinformatics; comprehensive comparative analysis at the genomic level	Ν	Ν	Ν
Mendelowitz	David	PhD	GW	dmendel@gwu.edu	Role of the autonomic nervous system in cardiorespiratory diseases; identification of novel targets for treating diseases such as sleep apnea and heart failure.	Ν	N	N
Nino	Gustavo	MD, MSHS	CNHS	GNino@childrensnational.org	Developmental immunology of human airway epithelium, pathobiology of respiratory disorders in infants born prematurely, novel tools for respiratory phenotyping in young children	Ν	N	N
Novak	James	PhD	CNHS	JNovak@childrensnational.org	Gene therapy strategies for muscular dystrophies; molecular and cellular mechanisms of tissue repair and muscle disease pathogenesis	М	Y	М

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Pei	Yanxin	PhD	CNHS	YPei@childrensnational.org	pediatric brain tumors and identifying novel therapeutic approaches to treating the	Y	Y	Y
Polotsky	Vsevolod	MD, PhD	GW	vsevolod.polotsky@gwu.edu	Pathogenesis of sleep disordered breathing and its complications	Ν	М	М
Polter	Abigail	PhD	GW	ampolter@gwu.edu	Circuit and synaptic-level effects of stress and adversity.	Ν	Ν	Ν
Posnack	Nikki	PhD	CNHS	nposnack@childrensnational.org	Cardiovascular physiology, pharmacology, and pediatric heart models	Y	Y	Y
Sepulveda	Antonia	MD, PhD	GW	asepulveda@gwu.edu	Novel regulatory pathways and early biomarkers of cancer of the esophagus, stomach, colorectum, and pancreas using innovative genomics, transcriptomics, and computational image analyses	Ν	N	N
Seto	Edward	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	Ν	N	М
Shook	Brett	PhD	GW	brettshook@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	Ν	Ν	М
Torii	Masaaki	PhD	CNHS	MTorii@childrensnational.org	Molecular and cellular mechanisms that govern differentiation of neuronal and glial subtypes in normal development of the cerebral cortex; role of these processes of cognitive and psychiatric disorders	Ν	N	Ν
Triplett	Jason	PhD	CNHS	JTriplett@childrensnational.org	Mechanisms of visual circuit development; analysis of visual dysfunction and circuit disorganization in neurodevelopmental disorders	Y	Y	Y
Tzatsos	Alexandros	MD, PhD	GW	atzatsos@gwu.edu	Epigenetic progression model of pancreatic cancer; epigenetic regulation of hematopoietic stem cells	Ν	Ν	Ν
Watkins	David	PhD	GW	dwatkins832@gwu.edu	Immune response to viruses including HIV, Zika, Dengue, Yellow fever and the new coronavirus encompassing MHC genetics, viral evolution, CD8+ T cell responses, antibody cloning and expression, vaccine development and diagnostics.	N	N	N
Wu	Ray-Chang	PhD	GW	rwu@gwu.edu	Chromatin remodeling proteins in the development and therapy resistance of cancers	Ν	Ν	Ν
Young	Colin	PhD	GW	colinyoung@gwu.edu	CNS molecular mechanisms underlying cardiovascular and metabolic diseases	Ν	Ν	М
Zheng	Xiaoyan	PhD	GW	xzheng@gwu.edu	Identification of target genes regulated by the Hedgehog signaling pathway and molecular mechanisms activated by Hegehog in regulating cell-cell interactions	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	Ν	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	Y	Y	Y