

Children's Research Institute



**FACULTY
RESEARCH
INTREST**

Center for Cancer and Immunology Research

NAME	RESEARCH INTEREST	E-MAIL ADDRESS
Ladisch, Stephan	Establishment of the biological significance of gangliosides that are shed by tumor cells, particularly those involved in pediatric cancers; Tumor Cell Ganglioside Metabolism	sladisch@cnmc.org
Colberg-Poley, Anamaris	Human cytomegalovirus, protein trafficking, infectious diseases	acolberg-poley@cnmcresearch.org
D'Angelo, Lawrence	range of chronic and acute health problems in adolescents	ldangelo@cnmc.org
DeBiasi, Roberta	Pathogenesis of viral myocarditis and encephalitis - virus-induced apoptosis.	rdebiasi@cnmc.org
Gingalewski, Cynthia	Necrotizing enterocolitis, innate immunity, intestinal barrier function	cgingale@cnmc.org
Jones, Olcay	expertise in children with severe arthritis, lupus, vasculitis and other systemic autoimmune diseases	ojones@cnmc.org
Kamani, Naynesh	pediatric stem cell transplantation	nkamani@cnmc.org
Leitenberg, David	regulation of T lymphocyte activation and development. Dr. Leitenberg's work is primarily focused on the basic mechanisms by which alterations in biochemical signaling pathways influence T lymphocyte development and function	dleit@gwu.edu
Loechelt, Brett	transplantation immunology, immunodeficiency.	bloechel@cnmc.org
MacDonald, Tobey	childhood central nervous system (CNS) tumors; tumor integrin-hosts interactions important to CNS tumor invasion and angiogenesis; genetic regulation of tumor invasion and angiogenesis	tmacdona@cnmc.org

Mohan, Parvathi	treatment of hepatitis B and C and steatohepatitis in children	pmohan@cnmc.org
Newman, Kurt	vascular gene transfer. He has focused on pediatric outcomes research to improve quality and safety.	knewman@cnmc.org
Nunez, Susan	study is aimed at determining the biology of obesity in long-term survivors of childhood cancer and how they relate to glucose and insulin sensitivity. She has been interested in the biology of PPAR, the fat receptor and its relationship to insulin resistance. Insulin resistance is a result of obesity.	snunez@cnmc.org
Perez-Albuerne, Evelio	Clinical research bone marrow transplantation	eperez@cnmc.org
Radoja, Sasa	expert in the field of cytotoxic lymphocytes (CTL). focused on identifying the genes and mechanisms that regulate granule exocytosis mediated cytotoxicity, a major mechanism used by CTL to kill tumor and virally infected cells He has been involved in the studies concerning determination of the genetic basis for hemophagocytic lymphohistiocytosis (HLH), a rare, fatal pediatric immune disorder	sradoja@cnmc.org
Rakusan, Tamara	epidemiology of adherence to treatment protocols in HIV patients.	trakusan@cnmc.org
Ray, Patricio	Pathogenesis of pediatric renal diseases.	pray@cnmc.org
Reaman, Gregory	Acute Lymphoblastic Leukemia (ALL)	greaman@cnmc.org
Rood, Brian	brain tumors, epigenetics, tumor suppressor genes, CSF proteomics.tumors.	brood@cnmc.org

Sandler, Anthony	tumor immunology investigates immunotherapeutic strategies for tumors and his work in this field has been supported from multiple resources including the National Institutes of Health. His primary research interest is in the formulation and application of novel tumor vaccine therapies, especially focusing on targeted activation of host immunity.	asandler@cnmc.org
Seibel, Nita	Acute Lymphoblastic Leukemia, new agents; Wilms tumor and new antifungal agents	nseibel@cnmc.org
Singh, Nalini	molecular diagnostics and studying microbial resistance.	nsingh@cnmc.org
Spiegel, Hans	AIDS clinical research	hspeigel@cnmc.org
Stone, Kelly	studying mechanisms of tumor evasion of host immune responses, focusing on Toll-like receptor signaling modulation by tumor-derived molecules.	kstone@cnmc.org
Tifft, Cynthia	Molecular pathogenesis and treatment of glycosphingolipid storage disorders	ctifft@cnmc.org
Vukmanovic, Stanislav	studying development and function of T lymphocytes with the goal to be able to manipulate the immune system in diseases requiring either enhancement (cancer, infectious diseases) or dampening (autoimmune diseases, allergies, transplantation) of the immune functions.	svukmano@cnmc.org
Zeichner, Steven	Molecular pathogenesis of infectious diseases, including HIV, Kaposi's Sarcoma-Associated Herpesvirus, and other pediatric infectious disorders	szeichner@cnmc.org

Center for Neuroscience Research

NAME	RESEARCH INTEREST	E-MAIL ADDRESS
Acosta, Maria, MD		
Bell, Michael, MD	He has focused his research efforts on both the effects of inflammation on brain development in rodents and the identification and treatment of acute brain injuries in critically-ill children.	mbell@cnmcresearch.org
Berl, Madison, PhD	Her research interests include the effects of medical conditions and treatments on neuropsychological functioning in children. Specifically, she is investigating the relationship between working memory and language in children with epilepsy using of MRI.	mberl@cnmcresearch.org
Chew, Li-Jin, PhD	Her work applies cellular and molecular approaches to the study of the effects of cytokines on myelin development, progenitor cell cycle control and gene expression. Her interests also include the role of Sox transcription factors in oligodendrocyte progenitor cell development.	lchew@cncmresearch.org
Corbin, Joshua, PhD	He studies the genetic and cellular basis of the development of the mammalian amygdale.	jcorbin@cnmcresearch.org
Gaillard, William Davis, MD	Dr Gaillard currently directs brain imaging initiatives in pediatric developmental disorders in addition to his	wgaillard@cnmc.org

	continuing work in epilepsy.	
Gallo, Vittorio, PhD	<p>He focuses on brain development and developmental disabilities. Dr. Gallo's research team works on the early postnatal development of the three major types of cells of the central nervous system, neurons, oligodendrocytes and astrocytes. His laboratory is interested in:</p> <ul style="list-style-type: none"> neurogenesis in the postnatal brain, and strategies of cell repair and regeneration based on the use of postnatal neural progenitors; intrinsic and extrinsic signals that regulate oligodendrocyte progenitor proliferation, migration and differentiation, and the process of myelination; astrocyte signaling, and extracellular factors that regulate astrocyte proliferation in the normal and injured brain. 	vgallo@cnmcresearch.org
Gioia, Gerard A., PhD	<p>He has a particular expertise in mild traumatic brain injury (TBI) and disorders involving the executive functions. He is also involved in research of the neuropsychological outcomes of children with Brain Tumors, Epilepsy, and Neurofibromatosis.</p>	ggioia@cnmc.org
Glass, Penny, PhD	<p>Her research interests have generally focused on biological and environmental</p>	pglass@cnmcresearch.org

	perturbations of the developing brain.	
Gropman, Andrea, MD		
Haydar, Tarik F., PhD	He is a recognized expert in the field of cerebral cortical development. His lab is defining the molecules and cellular mechanisms responsible for cerebral cortical development.	thaydar@cnmcresearch.org
Jonas, Richard A., MD	His research goal is to maximize intellectual development and minimize neurological injury associated with the repair of congenital heart anomalies.	rjonas@cnmc.org
Joshi, Paramjit T., MD	Dr. Joshi's has been studying mood disorders for over two decades and also has expertise in the study of psychological effects of violence, crisis and trauma in children.	pjoshi@cnmc.org
Kadom, Nadia, MD		nkadom@cnmc.org
Kenworthy, Lauren, PhD	Her research interests are in the neuropsychological phenotype of autism.	lkentwort@cnmc.org
Khademian, Zarir, P., MD, PhD		zKhademi@cnmc.org
Lewin, Daniel S., MS, PhD	His research focuses on the neurocognitive sequelae of sleep disturbances in children. More specific interests lie in the role of sleep in the developmental regulation of attention, mood and behavior. Ongoing studies investigate the impact of medical illness and psychiatric disorders on sleep and development. Conducting policy relevant	dlewin@cnmc.org

	<p>research has also been a high priority and has focused on issues related to treatment outcome, reimbursement for health services, and informing both health and educational policy through research outcomes that demonstrate changes sleep across development.</p>	
New, Michelle, PhD		mnew@cnmc.org
Packer, Roger J., MD	<p>His primary area of interest is the development of clinical and translational clinical trials for children with brain tumors.</p>	rpacker@cnmc.org
Panchision, David M., PhD	<p>His studies include the role of extracellular signals in controlling the differentiation of stem cells and their derivatives in the Central Nervous System (CNS). Currently, his lab is studying the role of BMPs and oxygen in regulating fate of normal and brain-tumor derived stem cells.</p>	dpanchision@cnmcresearch.org
Pearl, Phillip L., MD	<p>His research interests are in pediatric neurotransmitter disorders and epilepsy, and he serves as an investigator in protocols at Children's National Medical Center and the National Institutes of Health (NINDS) associated with epilepsy and neurometabolic disease, specifically SSADH deficiency.</p>	dpearl@cnmc.org
Robb, Adelaide S., MD	<p>Her primary area of interest is pediatric psychopharmacology and</p>	arobb@cnmc.org

	she has been the PI on over 30 pediatric pharmacology trials.	
Salpekar, Jay A., MD	Current research projects include focus upon pediatric bipolar disorder, psychiatric issues associated with pediatric epilepsy, and ADHD.	jsalpeka@cnmc.org
Santi, Maria Rita, MD		msanti@cnmc.org
Short, Billie Lou, MD	She is internationally recognized for her work on neonatal respiratory failure and its treatments, including extracorporeal membrane oxygenation (ECMO), and laboratory evaluation of new therapies for neonatal respiratory failure including, high frequency ventilation and inhaled nitric oxide; clinical interest in ECMO as a therapy for newborns failing conventional therapy has directed her laboratory research into the area of brain physiology and alterations of brain function noted after exposure to ECMO.	bshort@cnmc.org
Vaidya, Chandan J., PhD		cvaidya@cnmc.org
Vézina, Louis-Gilbert, MD	His clinical and research interests include malformations of the central nervous system, tumors of the brain and spinal cord, neurofibromatosis, tuberous sclerosis, trauma, epilepsy imaging, neonatal imaging and radiology of the temporal bone.	Gvezina@cnmc.org

Xie, Hui, MD, PhD	Her research interest has been in the area of the regulation of vascular tone induced by a wide variety of stimuli (hormones, agonists, mechanical forces, and etc.), to characterize pathological alterations of blood vessels at the levels of reactivity, structure, and cell signaling pathways, to get better understanding of the mechanisms that control vascular functions under both healthy and diseased conditions, thereby contributing to the development of potential targets for therapeutic intervention	hxie@cnmc..org
Zohn, Irene, PhD		izone@cnmcresearch.org

Center for Clinical Research and Experimental Therapeutics

NAME	RESEARCH INTEREST	E-MAIL ADDRESS
Abdallah, Claude, MD, Msc	Dr. Abdallah has a strong interest in clinical research and in pharmacology.	cabdalla@cnmc.org
Batshaw, Mark L., MD		mbatshaw@cnmc.org
Baumgart, Stephen, MD		Sbaumga@cnmc.org
Chatoor, Irene, MD	Dr. Chatoor has specialized in feeding disorders in infants and young children.	ichatoor@cnmc.org
Finkel, Julia Cole, MD	Her areas of interest include the modulation of opioid analgesia, tolerance and hyperalgesia; the development of methodologies to objectively measure pain and analgesia and developmental pharmacology of analgesics.	ifinkel@cnmc.org
Hannallah, Raafat S., MD		rhannall@cnmc.org
Jantausch, Barbara, MD	Her research interests include the study of E. coli and other Gram negative infections, Urinary Tract Infection and Bacterial Pathogenesis. Dr. Jantausch is interested in the host response in Urinary Tract Infection and the role of cytokines in the inflammatory response of bacterial infections. She is also interested in the epidemiology of Pneumococcal infections following the availability of the Pneumococcal Conjugate Vaccine.	bjantaus@cnm.org
Johnson, Yewande, MD		yjohnson@cnmc.org
Kuehl, Karen Simpson, MD, MPH	Dr. Kuehl's research interest is in adverse birth outcomes (cardiac and other birth defects) and environmental	kkuehl@cnmc.org

	factors associated with these. Initially her work used spatial mapping techniques to generate ecologic hypotheses of risk factors associated with cardiac defects.	
Lichter-Konecki, Uta, MD	Her overall research interest is understanding the brain damage caused by inborn errors of metabolism and finding ways to prevent it.	ulichter@cnmc.org
Luban, Naomi L.C., MD		nluban@cnmc.org
McBryde, Kevin Dougal, MD	Dr. McBryde's current research focus is on the development of proteinuria and Chronic Kidney Disease among pediatric HIV-infected individuals.	kmcbryde@cnmc.org
Minniti, Caterina P., MD		cminniti@cnmc.org
Mirza, Nazrat M., MD, ScD	Her current clinical and research interests are in the area of pediatric obesity.	nmirza@cnmc.org
Rakhmanina, Natella Y., MD	Her research interests are focused on the clinical application of therapeutic drug monitoring in the field of pediatric and maternal HIV.	nrakhman@cnmc.org
Thomas, Jean M., MD	Her research, funded by NCRR/NIMH, focuses on toddlers with disruptive behavior disorders and comorbid disorders, including neurodevelopmental, anxiety and mood disorders. She is committed to understanding developmental pathways that lead to ongoing disruptive behavior disorders and guide specific intervention and prevention strategies.	jthomas@cnmc.org
Tuchman, Mendel, MD	Dr. Tuchman conducts	mtuchman@cnmc.org

	translational research in biochemistry and molecular biology of nitrogen metabolism and inborn errors of metabolism.	
Van Den Anker, John N., MD, PhD		Jvandena@cnmc.org

Center for Genetic Medicine Research

NAME	RESEARCH INTEREST	E-MAIL ADDRESS
Caldovic, Ljubica, MD	She is interested in mechanisms that the body uses to sense its environment and regulate its metabolism.	lcaldovi@cnmc.org
Chen, Yi-Wen, PhD	Her research involves dissecting molecular mechanisms of muscle hypertrophy, atrophy, and pathophysiology in muscle disorders including facioscapulohumeral muscular dystrophy (FSHD), Duchenne muscular dystrophy (DMD), and juvenile dermatomyositis (JDM).	Ychen@cnmc.org
Devaney, Joseph, PhD.	His interests are in developing new technologies for genotyping and SNP discovery.	jdevaney@cnmcresearch.org
Escolar, Diana M., MD	Her interests are in advance knowledge and development of effective treatments for people with Duchenne Muscular Dystrophy and related disorders.	descolar@cnmc.org
Freishtat, Robert Jeffrey, MD, MPH	His research program is in the molecular genetics and immunology of severe sepsis and acute lung injury	rfreisht@cnmc.org
Hathout, Yetrib, MS, PhD	He is an expert in mass spectrometry and proteomics applications; currently He is involved in the development of a proteomic platform for profiling and biomarker discovery at Children's National Medical Center.	yhathout@cnmcresearch.org

Hoffman, Eric P., PhD	His research interest is in muscular dystrophy, ALS, spinal cord trauma, exercise studies, and metabolic syndromes; integrated state-of-the-art basic genetics research (genome, transcriptome, and proteome), with an international clinical trial network, and ethics research.	ehoffman@cnmcresearch.org
Jerebtsova, Marina A., PhD	Her research interests are in renal development and pediatric nephrology.	mjerents@cnmc.org
Leshner, Robert T., MD		rleshner@cnmc.org
Mirza, Nazrat M., MD, ScD		nmirza@cnmc.org
Morizono, Hiroki, PhD	His interests lie in the relationships between sequence, structure and function of proteins, particularly in how novel variations of amino acid sequences fold three dimensional structures into a particular shape. What are the forces that hold the protein in this folded shape? Why does this conformation catalyze a chemical reaction? Which regions of a protein are affected when mutations occur, and how do mutations affect its catalytic activity?	hmorizono@cnmcresearch.org
Nagaraju, Kanneboyina, PhD	His research group is involved in a) defining the mechanisms of muscle fiber damage and dysfunction in autoimmune (e.g., myositis) and genetic (e.g., LGMD2B) muscle diseases using gene and protein expression profiling techniques, b) identifying molecular mechanisms underlying the	knagaraju@cnmcresearch.org

	sex-based differences in immune response and disease, c) generating novel mouse models and improving existing mouse models to investigate disease pathogenesis, and d) performing preclinical drug trials in mouse models of autoimmune and genetic muscle diseases.	
Partridge, Terence A., PhD	His research are in muscle cell biology and on the use of exon-skipping technology for the treatment of Duchenne Muscular dystrophy.	tpatridge@cnmcresearch.org
Peña, Maria T., MD		mpena@cnmc.org
Pohl, Hans George, MD	His research interest in urinary tract infection includes the study of the pathophysiological mechanisms of renal cortical scarring following acute pyelonephritis in children.	Hpohl@cnmc.org
Rose, Mary Callaghan, MS, PhD	His research interests are in asthma and cystic fibrosis-related mucus production.	mrose@cnmc.org
Seo, Jinwook , PhD	His research interests are in designing and developing innovative methodologies and tools for multidimensional data analysis using principles and techniques in information visualization, human-computer interaction, exploratory statistics, and data mining	jseo@cnmcresearch.org
Shi, Dashuang, MS, PhD	His research interests are to increase the understanding of the structure-function relationships of nitrogen metabolism-related enzymes.	dshi@cnmcresearch.org
Sparks, Susan MD, PhD	Her clinical and basic research is in glycosylation defects and other muscular	ssparks@cnmc.org

	dystrophies.	
Spurney, Christopher F., MD	He is currently researching cardiac disease associated with muscular dystrophies; research interests include non-invasive echocardiography of small animals and molecular mechanisms of cardiomyopathy.	cspurney@cnmc.org
Tuchman, Mendel, MD	Dr. Tuchman conducts translational research in biochemistry and molecular biology of nitrogen metabolism and inborn errors of metabolism.	mtuchman@cnmc.org
Vanderver, Adeline L., MD		jvanderv@cnmc.org

Center for Health Services and Community Research

NAME	RESEARCH INTEREST	E-MAIL ADDRESS
Atabaki, Shireen M., MD, MPH	Her research Interest is traumatic Brain Injury; development of clinical decision rules for decreasing unnecessary CT scans, assessment and follow-up of concussions and medical therapies for prophylaxis of post-traumatic seizure; developed clinical pathways for the management of TBI in the ED and other outpatient settings; interest in family centered care and family member presence for resuscitation and procedures in the Emergency Department.	satabaki@cnmc.org
Best, Dana, MD, MPH	She focuses on secondhand tobacco smoke exposure of children and pediatric lead poisoning.	dbest@cnmc.org
Chamberlain, James M., MD	His research interest are genomics of acute lung injury and bone health, clinical efficacy trials and translational research, epidemiology, and health services research; his research has been focused on quality of care for pediatric emergency patients.	ichamber@cnmc.org
Cora-Bramble, Denice Estella, MD, MBA, FAAP	She leads the clinical, research, education and advocacy activities of the Goldberg Center. She provides leadership to a multi-site staff of 230, including 35 medical and dental faculty members; principal investigator of the NIH funded Washington DC-Baltimore Center to Improve Child Health Disparities.	dcorabra@cnmc.org
Dalton, Heidi, MD		

Fu, Linda Yu-Sing, MD, MSc	Her research interests include sudden infant death syndrome, as well as vaccination practices. Dr. Fu is currently collaborating with the DC Immunization Registry to examine and improve vaccination rates in DC's underserved populations.	LFu@cnmc.org
Mark F. Guagliardo, PhD	His work is dedicated to understanding how the geospatial distribution of community and environmental factors affects children's health. These include health promotion factors such as clinic and pharmacy locations, and disease or injury risk factors such as the spatial proximity of environmental toxins and violent crime.	mguaglia@cnmc.org
Hoang, Albert, MS, PhD	His research interests are Biostatistics/Bioinformatics, Data Mining, Knowledge Based Systems, and Distributed Systems.	ahoang@cnmc.org
Horn, Ivor Braden, MD, MPH	Dr. Horn's research interests focus on racial and ethnic child health disparities and provider communication with African American parents from diverse socio-economic backgrounds in the pediatric primary care setting.	ihorn@cnmc.org
Jain, Anjali, MD	Dr. Jain's research has centered on obesity prevention and feeding issues, particularly among underserved families, using a combination of	ajain@cnmc.org

	quantitative and qualitative methods. She continues to work on evidence-based approaches to public health in general and obesity in particular, including studying the influence of media and the environment on eating and activity behaviors.	
Joseph, Jill Gregory, MD, PhD, MPH		jjoseph@cnmc.org
Kaplan, Richard, MD		rkaplan@cnmc.org
Kind, Terry, MD, MPH	Dr. Kind's research interests include online consumer health information, health literacy, and medical education. Among her publications include a description of internet access among low income African American parents, ethical issues in pediatric e-health, and health information access programs.	tkind@cnmc.org
Lewin, Amy B., PsyD	Her research interests include program evaluation, teen pregnancy prevention, and the role of environmental stressors on parenting behaviors.	Alewin@cnmc.org
Marsh, Jennifer Evans, PhD	Her research interests are child health and development and ethics and statistical consultation in academic medical centers.	jmarsh@cnmc.org
McCarter, Robert J., Jr., ScD	His clinical and research interests include the clinical aspects of sexual and gender development in children and adolescents.	rmccarte@cnmc.org
Moon, Rachel Y., MD	Her research specifically focuses on high-risk populations for SIDS, specifically African-Americans and infants attending child care. She currently serves on the	rmoon@cnmc.org

	Task Force on SIDS for the American Academy of Pediatrics.	
Pollack, Murray M., MD, MBA	He is an expert in intensive care severity of illness methods, and outcome studies from pediatric intensive care.	mpollack@cnmc.org
Ronzio, Cynthia R., PhD	Her research applies a public health perspective to psychological and social epidemiological research with the aim of understanding the relationship between maternal mental health/wellness, infant health, and social risk factors.	cronzio@cnmc.org
Slonim, Anthony D., MD, MPH	His research interests address healthcare quality broadly with a specific focus on patient safety in hospitalized patients using large administrative databases.	aslonim@cnmc.org
Ryan, Leticia, MD		lryand@cnmc.org
Streisand, Randi, PhD, CDE	The program of her research is in pediatric diabetes and includes being a principal investigator and co-investigator on several NIH funded investigations.	rstreis@cnmc.org
Tate, Anupama, DMD	Her research interests lie in the effect of severe early childhood caries and comprehensive dental intervention on weight of children.	atate@cnmc.org
Teach, Stephen J., MD, MPH	His primary academic focus is on the disparities evident in the care of inner-city children with asthma, including their over-reliance on urban emergency departments for episodic asthma care.	steach@cnmc.org
Vergheze, Susan Thomas, MD	Her interest include Ultrasound Assisted Vascular Access, Anesthesia for children with CHD coming for non cardiac surgery, Newborn surgical	sverghes@cnmc.org

	emergencies, and Cutaneous analgesia	
Wong, Edward, MD	His interests are pediatric transfusion therapy; evaluation of new automated hematologic parameters involved stem cell mobilization and iron deficiency; lead testing in blood donors, novel applications of therapeutic apheresis and transfusion efficacy of new blood products.	ewong@cnmc.org
<u>Wratney, Angela, MD, MHSc</u>		awratney@cnmc.org
Wright, Joseph L., MD, MPH	His interests are emergency medical services for children, injury prevention and the needs of underserved communities	jwright@cnmc.org