**Department of Cell Biology**

**Janice L. Brissette, PhD** (x3755) §

janice.brissette@downstate.edu

My laboratory is interested in the development and diseases of the skin. Within these broad subjects, we focus on the control of epithelial morphogenesis and seek a better understanding of how the skin: 1) creates and regenerates epithelial tissues, 2) directs different cell types to develop and function as units, 3) terminates tissue development, and 4) protects itself from uncontrolled cell growth. To gain insight into these processes, we are determining the molecular and cellular functions of two transcription factors -- Foxn1 (forkhead box n1) and Hr (hairless). In humans and mice, these factors are critical to skin morphogenesis, as Foxn1 promotes tissue development, while Hr arrests development and promotes quiescence. These factors thus play fundamental but distinct roles in the health of the skin and represent gateways through which to uncover global mechanisms of morphogenetic control.

**Stephen Carleton, PhD** (x3749)

steve.carleton@downstate.edu

Molecular analysis of gene expression in the developing chick heart, specifically the genetics or "switch on" of two cardiac-special genes and two skeletal muscle-specific genes during critical stages of development. Collaborations on projects involved in genetic analysis (DNA fingerprinting) of *Mycobacterium tuberculosis*.

**Brahim Chaqour, PhD** (x8285) §

brahim.chaqour@downstate.edu

Research focus in the Chaqour lab is on the adaptive and maladaptive responses of cells and tissues to local and environmental stresses/injuries whether they are mechanical/physical in nature (e.g., tissue overdistension/stretch, hemodynamic or pressure overload and shear stress deformation) or chemical stresses imparted by hypoxia, hyperoxia and/or ischemia. These studies have direct clinical implications in congenital and acquired diseases of the nervous, urinary, cardiovascular and digestive systems as well as in tumorigenesis.

**William J Chirico, PhD** (x1308)

william.chirico@downstate.edu


**Eva B Cramer, PhD** (x1011) §

eva.cramer@downstate.edu

Development of i) a biotech incubator & park adjacent to the campus, and ii) a biotech expansion/manufacturing site at the Brooklyn Army Terminal.

**John Danias, MD, PhD** (x) §

john.danias@downstate.edu

Neuroprotection; Gene expression in glaucoma; Gene therapy in glaucoma; and Neuroregeneration
Richard Feinman, PhD (x2252)
rfeinman@downstate.edu
Mechanism of action of proteolytic enzymes and their inhibitors.
Computer models of operant conditioning.
Miriam H Feuerman, PhD (x1258)
miriam.feuerman@downstate.edu
Molecular mechanism that separates controlled normal growth from carcinogenesis. Study regulation of gene expression in liver regeneration and tumorigenesis.

Gregory Gick, PhD (x1265)
greg.gick@downstate.edu
Investigation of the molecular mechanisms underlying regulation of mammalian Na,K-ATPase subunit gene expression in response to hormones and ionic stimuli.

Christopher U Hellen, PhD (x1034) §
christopher.hellen@downstate.edu
The mechanism of cap-dependent initiation of translation in eukaryotes. Analysis of RNA-protein interactions that mediate initiation of translation by internal ribosomal entry on eukaryotic viral mRNAs, using hepatitis C virus and encephalomyocarditis virus mRNAs as models.

Sabina Hrabetova, PhD (221-5392) §
sabina.hrabetova@downstate.edu
Biophysical properties of the brain extracellular space important for neurotransmission, neurotrophic effects, drug delivery, general electric activity, and basic cellular homeostasis. Focus: role of glia and extracellular matrix. Interdisciplinary approach: imaging, electrophysiology, computer modeling.

Mahmood Hussain, PhD (x4790) §
mahmood.hussain@downstate.edu
Molecular mechanisms of intestinal lipoprotein assembly.

Xian-Cheng Jiang, PhD (x6701) §
xian-cheng.jiang@downstate.edu
Create and use mouse models (transgenic, gene knock-out) for the studies of sphingomyelin (the second abundant phospholipid in the circulation system) metabolism and atherosclerosis. Use of transgenic approach to perform functional studies of two plasma lipid transfer proteins, phospholipid transfer protein (PLTP) and cholesteryl ester transfer protein (CETP).

Weijun Jin, MD (x5639) §
weijun.jin@downstate.edu
Plasma lipid metabolism; identifying how genes regulate hepatic and plasma lipoprotein levels; gene transfer, increase and decrease of protein expression; biochemistry of protease lipase and other enzymes.

John L Kubie, PhD (x2632) §
jkubie@downstate.edu
Study the role of the hippocampus in navigation, learning and memory, analyzing single-cell recordings from awake behaving rats. Study the relationships between the animals’ position in space, the animals’ experience and the firing of target cells. Other technical approaches involve analysis of navigation, the study of evoked potentials and the study of the effects of drugs or hormones on
neuronal firing properties.

Donald R Mills, PhD (x3815)
donald.mills@downstate.edu
Studying the conformation of messenger RNA as it relates to the regulation of protein synthesis. Also examining RNA protein interactions.

Camilo A Parada, PhD (x1143)
camilo.parada@downstate.edu
Mechanism(s) by which the HIV-encoded Tat protein, in conjunction with cellular factors, enhances transcription elongation from the HIV-1 promoter. Exploration of the contribution of Tat and cellular factors to HIV-1 transcription re-initiation, transcription through nucleosomes, and mRNA processing.

Tatyana Pestova, PhD (x1781) §
tatyana.pestova@downstate.edu
Mechanism of initiation of eukaryotic protein synthesis.

Christopher A J Roman, PhD (x1310) §
christopher.roman@downstate.edu
Lymphocyte development and renal cell carcinoma. We study transcription factors, cytokine pathways, and antigen receptor complexes that are important for lymphocyte development, the immune response, autoimmune disease, leukemia/lymphoma, and renal cancer, using transgenic/knock-out mouse models, primary mammalian cell culture systems, and somatic gene inactivation/retroviral transduction approaches.

Julie Rushbrook, PhD (x2647)
julie.rushbrook@downstate.edu

Frank R Scalia, PhD (x1018)
frank.scalia@downstate.edu
The imaging surface of the retina is mapped point for point onto the visual centers of the brain, providing the brain with a coherent view of the visual world. The formation of these visuotopic maps, which are essential for normal vision, is being studied during development and in models of optic nerve regeneration.

Haseeb A Siddiqi, PhD (x1610)
haseeb@downstate.edu
Host-parasite interactions, and mechanisms of pathogenesis and immunity in schistosomiasis; reproductive biology of schistosomes and mechanisms of chemotraction in schistosome males and females; immune regulation in schistosomiasis and in sepsis; cytokines in infection and in local tissue injury.

Eduardo Mascareno, PhD
eduardo.mascareno@downstate.edu
Molecular mechanisms in cardiac development. Signal transduction pathways and transcription adaptation in myocardial hypertrophy and ischemia. The role of obesity and the inflammatory response, as major contributors in the development of chronic cardiovascular diseases,
such as cardiac hypertrophy, myocardial ischemia, and heart failure.

Gladys Teitelman, PhD (x2950) §
gladys.teitelman@downstate.edu
Type I diabetes results from the destruction of insulin producing cells (B cells) of the pancreas. The main focus is to establish an animal model of type I diabetes to identify B precursor cells and to study their differentiation into insulin cells of adults.

Fredric C Volkert, PhD (x3923)
fredric.volkert@downstate.edu
Development and evaluation of active learning strategies in medical education.

Department of Pathology
Juan Marcos Alarcon, PhD (718-613-8348)
mailto:juanmarcos.alarcon@downstate.edu
Project Title: Organization of Traces of Memory in the Hippocampus Circuit
Project Description: The goal is to study how synaptic circuits in the mouse hippocampus change upon a learned experience. By identifying and characterizing synaptic inputs that have been persistently changed by memory experiences, we will attempt to define the organization of memory traces at the circuit level.
General Hypothesis: Learned experiences persistently change the function of hippocampal circuits to store memory. Laboratory techniques: Behavioral training of mice and ex vivo characterization of cellular and synaptic function via electrophysiology, immunohistochemistry, biochemistry/molecular biology methods.

Virginia M Anderson, MD (x1292)
virginia.anderson@downstate.edu
Morphologic alterations in pediatric and perinatal disease including the placenta in HIV disease, congenital malformations especially congenital heart disease.

Constantine Axiotis, MD (245-5371)
constantine.axiotis@downstate.edu
The expression of the multidrug resistance gene (MDR-P-glycoprotein) in human tumors; and the molecular pathology of breast cancer.

Randall L barbour, PhD (x1661)
randall.barbour@downstate.edu
Development of real-time functional imaging technologies for early disease detection, monitoring response to therapy and evaluation of normal tissue functioning.

Helen G Durkin, PhD (x1295)
helen.durkin@downstate.edu
Studies of IgE responses of long term survivors with HIV-1 disease. Role of gut associated lymphoid tissue (GALT) in generation and suppression of IgE responses in humans (allergic, HIV+) and rodents. Attempting to determine how IgE responses can be eliminated, without interfering with humoral antibody responses of other isotopes (IgM, IgG, IgA) or cell mediated immune responses. Studies focus on role of bacterial cell wall components, cytokines, especially IL-6, and neuropeptides, especially substance P, in isotype specific suppression of IgE responses.

Alejandro Ivan Hernandez, PhD
ivan.hernandez@downstate.edu
Understanding the molecular mechanisms regulating long-term synaptic plasticity and the alterations of those mechanisms associated with neurodegenerative disorders and drug addiction.
My major research and clinical focus is examining cellular dysfunction and toxicity due to amyloid deposition in Alzheimer’s disease and transthyretin amyloidosis. Two current projects are 1. how alterations in PARP1, an enzyme necessary for long-term memory, may contribute to memory impairment in Alzheimer’s disease and 2. A study of the deposition of transthyretin amyloid in tissues leading to polyneuropathy and cardiomyopathy in the elderly.

Josef Michl, MD (x1643)
josef.michl@downstate.edu
Study of the cells involved in host defense mechanism against infectious agents and tumors, and of carcinogenesis in the exocrine pancreas in animals and man: Establishment of novel in vitro and in vivo disease models for the identification of unique disease-specific molecules for the development of early diagnostic approaches and effective therapeutic tools for this disease.

Maja Nowakowski, PhD (x2206)
maja.nowakowski@downstate.edu
Systemic and local pulmonary immunity in lung diseases, including HIV-1 disease, tuberculosis and chronic inflammatory disease. The role of macrophage-derived nitric oxide in lung diseases, including asthma, HIV-1 disease, tuberculosis, and chronic inflammatory disease. Effects of virus infection on macrophage physiology and immune functions.

Martin J Salwen, MD (x1689)
martin.salwen@downstate.edu
Define outer limits of laboratory test analyses. Develop programs for interpretive analysis of clinical laboratory data using rule-based logic and pattern analysis. Programs have incorporated modules for instruction in testing strategies for differential evaluation of patients. Programs have been developed for erythrocytosis. Strategies for rapid bacterial identification in sepsis.

Department of Physiology and Pharmacology
Burton M Altura, PhD (x2194)
burton.altura@downstate.edu
Focus on magnesium in cardiovascular biology, both in animals and human subjects. Involved in new diagnostic and prognostic test development, and new medical devices. Studies biochemical and molecular physiological processes in atherogenesis and stroke. Primary cultured vascular smooth muscle, endothelial and glial cells are used.

Peter J Bergold, PhD (x3927) §
peter.bergold@downstate.edu
Interested in the role of gene expression in the pathophysiology of neuronal disorders, particularly stroke and epilepsy.

John Chapin, PhD (x1339)
john.chapin@downstate.edu
Develop and utilize technologies for neurophysiologically recording from large populations of neurons in sensory and motor areas of the brain. Computer techniques for online extraction of coded information in the brain are used to control external devices such as robot arms.

Diana L Dow-Edwards, PhD (x3987) §
diana.dow-edwards@downstate.edu
Use neuro-imaging and neuropharmacologic techniques to study the effect of drug exposure during brain development. The overall hypothesis is that the actions of drugs, typically cocaine or similar drugs, alters the functional maturation of the brain.
Hormonal regulation of membrane transport.

Study the EEG theta rhythm in rats to understand how it influences information processing by the hippocampus. Theta rhythm occurs during movement and is paced by cholinergic neurons that project from the medial septal nuclei to the hippocampus. The degeneration of these basal forebrain cholinergic neurons is probably the cause of the memory deficit of Alzheimer's patients.

My research interest is centered on developing a fully integrated Brain Machine Interface (BMI) for the control of prosthetic limbs. I feel that our best chance of accomplishing such a goal will involve a unique strategy and point of view, one that can be gained by exploiting several experimental models. Much of my work involves rats, monkeys and humans making reaching movements while interacting with robotic systems. The robotic systems are used to produce novel dynamical situations allowing me to ask questions about motor learning and how different brain regions respond to such learning.

Immunoglobulin gene expression and regulation.

The potentiation of GABAergic inhibition by nootropic (cognition-enhancing) drugs induced by changes to inhibitory cell function. Injury-induced changes in synaptic function that lead to epileptiform activity, using a model of acute neuro-trauma.

Modeling electrophysiological processes pertinent to epilepsy and modeling abstract neural networks to understand recovery from stroke and the basis of cognitive processes. Development and application of new conceptual and technical tools to integrate the top-down techniques of artificial neural networks with the bottom-up techniques of detailed neural modeling.

Studying the connectivity of the inhibitory circuit in the hippocampus and the maturation of GABA mediated inhibition.

Study the regulation of nerve cells in the brain that release the neurotransmitter (5-HT) and focus on central serotonergic (5-HT) neurotransmission and neuropharmacology. Studies of the molecular level on the signal transduction pathways in these nerve cells and investigations of how drugs interact with a single receptor system, capable of modulating two different ion channels simultaneously.

Synaptic transmission in the hippocampus-internauron networks,
epileptiform activity, depolarizing GABA response.

Alan P Rudell, PhD (x1150)
alan.rudell@downstate.edu
Electrical brain responses to recognizable images (words, pictures, faces) are recorded and related to acquired perceptual skills (e.g., reading ability).

Todd Sacktor, MD (x3933) §
todd.sacktor@downstate.edu
The role of protein kinase C isozymes in long-term synaptic plasticity (LTP & LTD), and their relationship to memory.

Sheryl S Smith, PhD (x1339) §
sheryl.smith@downstate.edu
Modulation of hippocampal and olivo-cerebellar circuits by neuroactive steroids. Currently investigating steroid-induced changes in synaptic physiology induced by alterations in GABAA receptor subunit composition. Behavioral correlates, such as anxiety and seizure susceptibility, are also under investigation. Possible clinical relevance for PMS and catamenial epilepsy.

Armin Stelzer, MD (x3873)
armin.stelzer@downstate.edu
Intracellular regulation of ligand-gated receptors. Activity-dependent modification of the inhibitory circuit.

Mark Stewart, MD, PhD (x1167)
mark.stewart@downstate.edu
We study the causes and consequences of seizure activity using in vivo and in vitro animal models. With brain slice studies, we explore the cellular and circuit properties of hippocampal and parahippocampal cortical neurons. In whole animal studies we explore the autonomic nervous and immune system consequences of seizures. ANS and immune system consequences are also studied in patients from our Epilepsy Monitoring Unit.

Henri Tiedge, PhD (x1370) §
henri.tiedge@downstate.edu
Sorting and intracellular targeting of neuronal RNA. Local protein synthesis in neurons. Regulation of gene expression in neurons by trans-synaptic activity.

Keith Williams, PhD (x4610)
keith.williams@downstate.edu
Structure, function, and regulation of glutamate receptors.

Robert KS Wong, PhD (x1339) §
bob.wong@downstate.edu
Transmitter modulation of hippocampal neuronal network mechanisms of epileptogenesis.
1. Study comparing the effects of PCEA vs. periarticular single shot injection (SSI) vs. continuous periarticular infiltration (CPI) of local anesthetic, on top of a standard multimodal post-operative pain management strategy, on pain and rehabilitation outcomes in patients undergoing total hip replacement surgery.
2. Liposomal bupivacaine versus continuous saphenous nerve block supplement with single-dose local infiltration analgesia for pain control after total knee arthroplasty.

Rebecca S Twersky, MD, MPH
rebecca.twersky@downstate.edu
2. Should Ambulatory Surgery and Day of Surgery Admission Patients Discontinue Angiotensin Converting Enzyme Inhibitors (ACEI's) and Angiotensin Receptor Blockers (ARB's) Preoperatively?

Ming Zhang, MD/PhD
Ming.Zhang@downstate.edu
2. Determining the Mechanism of Ischemia Reperfusion Injury in Human Intestinal Tissue.
3. Animal models of ischemia: to examine the innate immune responses to ischemia in genetically-modified animals.

James Cottrell, MD
james.cottrell@downstate.edu
1. Development of novel amnesic agents using a strategy of blocking PKM activity.
2. Effects of anesthetics on excitability, metabolism, intracellular signaling pathways and molecular biological changes in pyramidal neurons before and after hypoxia.
3. Toward a mechanism underlying the effects of neonatal sevoflurane on neuropsychiatric-like behavioral changes.

Ira Kass, PhD
ira.kass@downstate.edu
1. Effects of anesthetics on excitability, metabolism, intracellular signaling pathways and molecular biological changes in pyramidal neurons before and after hypoxia.
3. Toward a mechanism underlying the effects of neonatal sevoflurane on neuropsychiatric-like behavioral changes.

Samrat Worah, MD
samrat.worah@downstate.edu
1. Determining the Mechanism of Ischemia Reperfusion Injury in Human Intestinal Tissue.
2. Quality Control Review of the ASA classification of patients undergoing moderate sedation by non-anesthesiologists.

Ketan Shevde, MD
ketan.shevde@downstate.edu
2. Implementation of Perioperative Carvediolol and N-Acetylcysteine Protocol within the CT-ICU setting as a means of decreasing Post-op mortality, Incidence of Atrial Fibrillation, and overall ICU and Hospital Stay.

Kimberly Craven, MD
kimberly.craven@downstate.edu
Determining the Mechanism of Ischemia Reperfusion Injury in Human Intestinal Tissue.
Daisy Lin, PhD
daisy.lin@downstate.edu
Toward a mechanism underlying the effects of neonatal sevoflurane on neuropsychiatric-like behavioral changes.

Panayiotis Tsokas, MD
Panayiotis.Tsokas@downstate.edu
Development of novel amnesic agents using a strategy of blocking PKM activity.

Ivan Velickovic, MD
ivan.velickovic@downstate.edu
Complement Expression Profiles in Maternal Human Cord Blood.

Audree Bendo, MD
audree.bendo@downstate.edu
1. Implementation of Perioperative Carvediolol and N-Acetylcysteine Protocol within the CT-ICU setting as a means of decreasing Post-op mortality, Incidence of Atrial Fibrillation, and overall ICU and Hospital Stay.
2. Perceived Barriers to Acceptance of Regional Anesthesia by Patients at SUNY DMC

Department of Dermatology

Neil Brody, MD, PhD (x1229)
neilbrody@aol.com
Isolation and characterization of molecules made by tumor cells that alter immune responsiveness or enhance tumor survival. Studying effects of sunlight on immune system.

Sharon Glick, MD (x1229)
glicksharon@aol.com
Projects in pediatric dermatology.

Edward R Heilman, MD (x1229)
eheilman@ameripath.com
Prognostic indicators of malignant melanoma.

Wei-Li Lee, PhD (x2170)
wei-li.lee@downstate.edu
Using an in vitro leukocyte-endothelial cell model system to evaluate potential anti-inflammatory properties of compounds with special regard for the skin. Using an in vitro leukocyte-endothelial cell model system to evaluate potential anti-inflammatory properties of compounds with special regard for the skin. To study the relationship between neuropeptides (NP) and pro-inflammatory cytokines with a primary interest in NP-induced skin inflammation via Th-1/Th-2/Th-17 signaling pathways.

Eve J Lowenstein, MD, PhD (x1229)
evlow13@yahoo.com
Projects in dermatology.

Department of Emergency Medicine

Bonnie Arquilla, DO (270-3216)
Arquibon@aol.com
Disaster Medicine, Surge Capacity Planning, Vulnerable Populations, Drill Design and Execution. Ethics of disaster care.

Lorenzo Paladino, MD (245-3318)
L_Paladino@msn.com
Trauma, Airway.

Richard Sinert, DO (245-2973)
richard.sinert@downstate.edu
Trauma, Hemorrhagic Shock, Asthma, Diabetes, Hypertension, Renal
Failure, Statistics, Evidence-Based Medicine.

Shahriar Zehtabchi, MD (245-4790)
shahriar.zehtabchi@downstate.edu
Neurological emergencies, Trauma, Hemorrhagic Shock, and Evidence-Based Medicine.

Department of Family Practice

Margaret Donat, MD (x2560)
margaret.donat@downstate.edu
Preventive care in family medicine; immunizations and complications in primary care.

Richard Sadovsky, MD (x2441)
richard.sadovsky@downstate.edu
Studies reviewing the ability of a clinical office to enroll entire families and to use entire families as the focus of treatment; effective medical writing skills; effective patient education; evaluating patient understanding of a disease. Sexual health of the older patient.

Miriam Vincent, MD (x2443)
miriam.vincent@downstate.edu
Appropriateness and standard of care for ambulatory NIDDM (Non-Insulin Dependent Diabetes Mellitus); preventive care in family practice (MTV); alcohol and substance abuse screening in family practice; influenza and pneumococcal vaccination: compliance, barriers, practice. Osteoporosis screening, evaluation and treatment in primary care. Diabetic neuropathy (screening, diagnosis and treatment).

Department of Medicine

MaryAnn Banerji, MD (x1542, x1698)
maryann.banerji@downstate.edu
Diabetes and cardiovascular disease, diabetes prevention, insulin resistance and insulin secretion, HIV and diabetes, endocrinology.

Olcay Batuman, MD (x1500)
olcay.batuman@downstate.edu
Molecular mechanisms that regulate angiogenesis (new blood vessel formation) in multiple myeloma (a common blood cell tumor). Molecular mechanisms that regulate behavioral response to stress.

Mohamed Boutjdir, MD (718-630-2891)
mohamed.boutjdir@downstate.edu
Electrophysiology of cardiac ion channel's structure/function and channelopathies. Cardiac arrhythmias associated with autoimmune diseases; and cardiovascular health disparity research.

Erdal Cavusoglu, MD (x3273)
erdal.cavusoglu@downstate.edu
Analysis of FIIR/JAM in patients undergoing coronary angiography.

Jack A DeHovitz, MD (x1069) §
jack.dehovitz@downstate.edu
Cohort studies of HIV-infected women. HIV epidemiology in Eastern Europe and Central Asia

Paul Dreizen, MD (x1155)
Molecular mechanism of actomyosin cross-bridge cycle in skeletal and cardiac muscle and its regulation by tropomyosin. NMR relaxation studies and molecular modeling of protein interactions using model systems.

Eli A Friedman, MD (x1584) §
eli.friedman@downstate.edu

Donald A Gerber, MD (x1455)
donald.gerber@downstate.edu
Interaction between lupus-inducing drugs (e.g., hydralazine and procainamide) and leukocyte oxidants (i.e., hypochlorite and hydrogen peroxide) and the effect of this interaction on protein structure.

Ellen M Ginzler, MD, MPH (x2529) §
ellen.ginzler@downstate.edu
Long-term, prospective study of the clinical course, prognosis and response to therapy in a large cohort of patients with systemic lupus erythematosus. Specific studies have been done related to lupus nephritis, premature atherosclerosis, and complications of therapy.

A Ross Hill, MD (x1770)
ross.hill@downstate.edu
Clinical studies on TB, e.g., retrospective case series and prospective study involving patients in DOT (directly observed therapy) program. Longstanding interest in respiratory physiology (mechanics, resp. muscles, control of breathing).

Rauno O Joks, MD (x1662)
rauno.joks@downstate.edu
Anti-inflammatory properties of tetracycline antibiotics. Role of complement proteins in allergic diseases.
Development of allergic diseases in immigrants to Brooklyn.

David Landman, MD (x3790)
david.landman@downstate.edu
Investigations include molecular epidemiology of nosocomial infections and studies involving the mechanisms of antibiotic resistance; evaluations of the activity of new investigational compounds are also conducted.

Sheldon Landesman, MD (x3034)
sheldon.landesman@downstate.edu
Prospective study of HIV infected pregnant women and their offspring, the natural history of perinatally acquired HIV, the effect of retrovirals on cardiac function and the development of mitochondrial syndromes in children.

Jason Lazar, MD (x1568)
jason.lazar@downstate.edu
Alcoholic cardiomyopathy; effect of action potential duration in ischemia.

Allen J Norin, PhD (x2516)
allen.norin@downstate.edu
Receptor-ligand interactions involved in cytolytic lymphocyte destruction of tumor cells and organ grafts, in particular, the role of
"Haymaker" and its cognate receptor in Natural Killer lymphocyte mediated cytotoxicity. Diagnosis of allograft rejection using (1) molecular probes of lymphocyte activation and (2) optical bead microarrays / Luminex for detection of anti HLA antibodies.

Louis Salciccioli, MD (x1568)
louis.salciccioli@downstate.edu
Evaluation of large and small vessel vascular function and cardiac function in cardiovascular disease with the use of non-invasive techniques.

Moro O. Salifu, MD (x1584)
moro.salifu@downstate.edu
[Anna Babinska, PhD (x4049)]
anna.babinska@downstate.edu
Investigation of molecular mechanisms underlying cellular homeostasis by studying the role of phosphorylation/dephosphorylation systems in platelet function; mechanisms of platelet activation by stimulatory antibodies directed against novel platelet membrane glycoproteins; and collaborative clinical studies investigating the role of platelet-activating factor (PAF) in pediatric NEC, PAF in learning and memory, and abnormal platelet activation mechanisms in kidney dysfunction.

Man Seok Oh, MD (x1565)
man.oh@downstate.edu
Whole body acid-base balances.

Edward Quadros, PhD (x4203)
edward.quadros@downstate.edu
Molecular, genetic and biochemical aspects of Vitamin B12 metabolism. Purification and cloning of vitamin B12 binding proteins and their receptors.
Targeted cancer therapy based on B12 and folate pathways using monoclonal antibodies.

John Quale, MD (x)
john.quale@downstate.edu
Investigations include molecular epidemiology of nosocomial infections and studies involving the mechanisms of antibiotic resistance; evaluations of the activity of new investigational compounds are also conducted.

TK Sreepada Rao, MD (x1394)
AIDS and kidney disease; erythropoietin in kidney disease.

Steven M Weiss, MD (x4181)
weisss@nychhc.org
Investigating the possible relationships between Chlamydia pneumoniae infection and atherosclerosis and asthma.

Department of Neurology

Charles K. Abrams, MD, PhD (x1270) §
charles.abrams@downstate.edu
My lab studies mechanisms of human central and peripheral nervous system diseases associated with mutations in connexins (gap junction proteins). I also study the roles of gap junctions in peripheral nerve regeneration and inherited peripheral neuropathy.

Brian J Anziska, MD (x2502)
brian.anziska@downstate.edu
Comparison of neurology undergraduate education in different medical schools using parameters such as overnight calls, and examination modalities.

Yaacov Anziska, MD (x2734)
yaacov.anziska@downstate.edu
HIV and toxic neuropathies, peripheral nerve injuries.

Alison Baird, MD (x3213) §
alison.baird@downstate.edu
Studying the predictors of clinical and tissue outcome after stroke and predictors of stroke risk. Methods used include neurovascular imaging (MRI, MRA, and CT) and cellular and molecular profiling of the peripheral blood (gene expression profiling and flow cytometry). Development and evaluation of novel diagnostic and therapeutic approaches for stroke.

Satyakam Bhagavati, MD (x2841)
satyakam.bhagavati@downstate.edu
Skeletal muscle generation from embryonic stem cells: Isolation of skeletal muscle stem cells from murine embryonic stem cells, studying their in vitro differentiation and proliferation characteristics and their ability to generate physiologically normal skeletal muscle after transplantation into dystrophic mice.

Ivan Bodis-Wollner, MD (x2975) §
ivan.bodis-wollner@downstate.edu
Vision and visual cognition suffer in dopaminergic deficiency states, such as in Parkinson's disease (PD). Our research studies evaluate electrophysiological neural network properties of dopaminergic circuits mediating vision, saccadic eye movements and visual cognition. In addition, we study retinal impairment in PD, using optical coherence tomography, an in vivo imaging technique of the retina.

Geetha Chari, MD (x2959)
geetha.chari@downstate.edu
Epilepsy clinical studies. Study of EEG in preterm neonates'

Roger Q Cracco, MD (x2051)
roger.cracco@downstate.edu
Magnetic stimulation of nervous system.

Joan Cracco, MD (x2035)
joan.cracco@downstate.edu
Neonatal EEG: Wireless novel microEEG for neonatal monitoring

Howard Crystal, MD (x2748) §
howard.crystal@downstate.edu
Cognitive changes in HIV. Genetics of substance abuse in HIV. Computational models of working and procedural memory.

Radha Giridharan (x2042)
radhagiridharan@downstate.edu
Strokes in sickle cell disease. Clinical research in pediatric neurology topics.

Paul J Maccabee, MD (x2430)
paul.maccabee@downstate.edu
Physical modeling, in vitro studies of nerve excitation using neuromagnetic stimulation. Developing clinical methods to detect abnormalities in the cauda equina and also the entire neuroaxis.
Lisa Merlin, MD (x3957)
lisa.merlin@downstate.edu
Hippocampal electrophysiology: examination of the role of metabotropic glutamate receptors in seizure production and epileptogenesis, with the aim to develop ways to prevent epilepsy in at-risk patients and suppress seizures in refractory patients. The examination of various modalities to improve education in medical neuroscience.

Herman Moreno, MD (x1338) §
herman.moreno@downstate.edu
Use of fMRI in mouse models of neurodegenerative disease such as Alzheimer's and Down’s syndrome to study brain metabolism, as an early marker of the disease. Basic electrophysiology and single cell calcium signaling to study brain circuit abnormalities in neurodegenerative disease in multiple mouse models.

Arthur L. Rose, MD (x3209)
arthur.rose@downstate.edu
Fragile-X syndrome: Mode of action of FMRP in the central nervous system and the mechanism of "toxic" FMR1 mRNA activity in carriers.

Daniel Rosenbaum, MD (x2051) §
daniel.rosenbaum@downstate.edu
The focus of the lab is to study the underlying mechanisms of ischemic cell death. By obtaining a better understanding of the events that occur at a molecular level, therapies aimed at reducing neuronal damage may be developed. Specifically, we are focusing on the role of apoptosis in neuronal ischemia. The laboratory utilizes both cerebral and retinal models. Another area of focus is neural stem and progenitor cells. The adult mammalian brain contains neural stem and progenitor cells that can proliferate, self-renew, and generate all of the cellular elements of the brain including neurons. During the past few years techniques have been developed that make it possible to isolate and expand, from developing or even adult CNS tissue, cells with properties characteristic of early neural multipotent progenitor or stem cells. These techniques have opened interesting new possibilities for the use of cells for CNS transplantation, neural replacement, and brain repair. This project will bring the rapidly expanding area of progenitor cells to bear on the problems of stroke and cerebral ischemia.

Richard Rubenstein, PhD (x2019) §
richard.rubenstein@downstate.edu
The laboratory is studying the molecular and biochemical basis of neurodegenerative diseases including Alzheimer’s disease with a major focus on prion diseases. These diseases share a feature of abnormal protein aggregation. Molecular, biochemical, immunological and cell biological approaches are being employed to address the disease-specific issues of neuropathogenesis, neuroprotection and neuroregeneration. The development of novel ultra-sensitive assays for biomarker detection useful for disease diagnosis, prognosis and for monitoring the effectiveness of therapeutic intervention.

Helen Valsamis, MD (x1356)
helen.valsamis@downstate.edu
Investigations on the prevention of post-traumatic epilepsy.

Department of Obstetrics & Gynecology

Ovadia Abulafia, MD (x2057) §
ovidia.abulafia@downstate.edu
Thrombophilia in gynecologic malignancies; Albumin levels as prognosticators of risk in gynecologic malignancies; Adequacy of hysterectomy in patients with positive endocervical curettage; incidence of BRCA1 and BRCA2 in African-American women with gynecologic cancer.

Alan Gintzler, PhD (x2129) § alan.gintzler@downstate.edu
Biochemical basis of narcotic addiction. Sex steroid modulation of intrinsic pain attenuating systems. Signal transduction and narcotic addiction.

Ozgul Muneyyirci, MD (x3788) § ozgul.muneyyirci-delale@downstate.edu
Causes and factors of endometriosis in order to prevent it. Currently looking at markers for endometriosis to diagnose and treat endometriosis in its early stages (during teenage years). Also comparing different treatments for endometriosis.

Vijaya Nacharaju, PhD (x2064) vijaya.nacharaju@downstate.edu
Estrogen and progesterone metabolites in urine and saliva, 11beta steroid dehydrogenase and aromatase in endometrial carcinoma.

Department of Ophthalmology

Monica Dweck, MD (x1961) monica.dweck@downstate.edu
Lacral and orbital disease.

Jeffrey Freedman, MD, PhD (x1961)
Elucidation of the mechanisms of inflammatory fibrosis in glaucoma.

Douglas Lazzaro, MD (x3380) douglas.lazzaro@downstate.edu
Corneal research.

E.C. Lazzaro, MD (x1962)
Ophthalmic manifestations of syphilis.

Department of Orthopedic Surgery & Rehabilitation Medicine

Sanjeev Agarwal, MD (x1892) sanjeev.agarwal@downstate.edu
Interventional physiatry and pain management.

Tsai Chao, MD (x1892) tsai.chao@downstate.edu
Physical medicine and rehabilitation, acupuncture.

Seung Park, MD (x1892) seung.park@downstate.edu
Physical medicine and rehabilitation.

Carl Paulino, MD (x3200) carl.paulino@downstate.edu
Scoliosis and deformity, total disc replacement, spine surgery.

Paul Pipia, MD (x1892) paul.pipia@downstate.edu
Physical medicine and rehabilitation; orthotics and prosthetics.
Subrata Saha, PhD (x8652)
subrata.saha@downstate.edu
Biomechanics of musculoskeletal system; biomaterials; sports injury; electrical stimulation for bone healing; osteoporosis; orthopedic implant testing; mechanical properties of bone and bone cement; bioethics; health care delivery.

William Urban, MD (x2055)
william.urban@downstate.edu
Sports medicine studies; athletic injuries; strength of sutures; ligament biomechanics; arthroscopic surgery; shoulder and knee surgery.

Department of Otolaryngology

Richard M. Rosenfeld, MD, MPH (x1638)
richrosenfeld@msn.com
1. AAO-HNS clinical practice guideline on adult sinusitis
2. AAO-HNS clinical practice guideline on acute otitis media
3. AAO-HNS clinical consensus statement on chronic pediatric rhinosinusitis
4. Methodology for clinical consensus statements
5. Multiple ongoing projects assisting otolaryngology residents with research design, systematic review, and data analysis
6. Outcome measures for the surgical treatment of cholesteatoma: a systematic review

Krishnamurthi Sundaram, MD (x1638)
krishsun@aol.com
RLN reinervation in a rat model.
1. Marital status and survival in head and neck cancer in Brooklyn.
2. Review of flaps in salvage nasopharyngectomy.
3. SUDEP: study of RLN function in sudden death during epileptic seizures.

Nira Goldstein, MD, MPH (x1638)
nira.goldstein@downstate.edu
1. Developmental delay in young children with sleep-disordered breathing before and after tonsil and adenoid surgery
2. Angioedema – Prospective Study
3. Cost-benefit analysis of polysomnography versus CAS-15 for pediatric sleep-disordered breathing
4. The prevalence of sleep-disordered breathing in children with asthma and its behavioral consequences
5. The risk of sleep-disordered breathing in former preterm children
6. The impact of adenotonsillectomy on pediatric asthma

Boris Bentsianov, MD (x1638)
drbib@aol.com
1. Systematic review of nasopharyngoscope cleaning techniques

Marina Boruk, MD (x1638)
dr.boruk@gmail.com
1. Effectiveness of intranasal steroids in treatment and prevention of disease recurrence in chronic rhinosinusitis with nasal polyposis (CRS).

Sydney Butts, MD (x1638)
sydney.butts@downstate.edu
2. Epidemiological factors associated with orofacial clefting in New York City. Principal Investigator-Sydney C. Butts, MD. Collaborators-Simone Reynolds MPH PhD, Michael Joseph MPH PhD.

Natalya Chernichenko, MD
natalya.chernichenko@downstate.edu
1. A novel xenograft zebrafish model of perineural invasion
2. Predictors of survival and recurrence of oropharyngeal SCCa at a tertiary care KCHC
3. Prevalence of EBV positive nasopharyngeal carcinoma in Caribbean population
4. Epithelioid hemangioma of the mandible: a case report and review of the literature
5. Rosai-Dorfman disease of the nasopharynx: a case report and review of literature
6. Marital status and survival in head and neck cancer in Brooklyn

Matthew Hanson, MD
matthew.hanson@downstate.edu
1. Outcome measures for the surgical treatment of cholesteatoma: a systematic review

Richard Kollmar, PhD
richard.kollmar@downstate.edu
1. Molecular genetics of otolith formation in the zebrafish
2. Restoration of recurrent-laryngeal-nerve function after injury in a rat model

Alice Lin, MD
alice.jo.lin@gmail.com
1. Epithelioid hemangioma of the mandible: a case report and review of the literature
2. Flap reconstruction of the nasopharynx: a review of the literature

Joshua Silverman, MD, PhD
Joshua.silverman@downstate.edu
1. Restoration of recurrent- laryngeal-nerve function after injury in a rat model
2. Angioedema – Prospective Study
3. Systematic review of treatment of adult laryngotracheal stenosis

Abraham Shulman, MD
1. Noise induced tinnitus animal model. Efficacy of Calpain antagonists in Neuroprotection; Neurodir/GAbadur ; Animal/ Drug Protocol. Wayne State University Department of Otolaryngology
2. TBI animal model of epilepsy effect of Neurodur/ Gabadur
3. Measurement of Intracranial pressure with an external non-invasive positioned ear canal device: Marchbanks Cerebral and Cochlear Fluid Pressure (CCFP) - Analyser unit – The tympanic membrane displacement test(TMDT)- in tinnitus Subjects presumed to have an elevated Intracranial pressure

Department of Pediatrics
J.V. Aranda, MD, PhD, FRCPC
jaranda@downstate.edu
Molecular and clinical pharmacology of Retinopathy of Prematurity; clinical drug trials in newborns, NSAIDs for the newborn, Caffeine clinical pharmacology, novel drug therapies in newborns. (Will provide general advice and discussion on clinical and translational research and potential funding sources)

K.D. Beharry
kbeharry@downstate.edu
Molecular and clinical pharmacology of Retinopathy of Prematurity; Molecular signaling in Angiogenesis in human endothelial cell cultures, Intermittent hypoxia and hyperoxia in oxygen induced retinopathy in the neonatal rat model, NSAIDs for the newborn, Caffeine and NSAIDs for Retinopathy

Stacy Blain, PhD (x4471)
stacy.blain@downstate.edu
Cell cycle progression, focusing on the cyclin cdks and their inhibitors, Cip/Kips.

Vadim Bronshein, MD (x1912)
vbronshtein@downstate.edu
Hypothermia and hypoxic ischemic encephalopathy (HIE)
Novel interventions for HIE in the neonatal rat model

Elka Jacobson-Dickman, MD (1697)
ejacobson-dickman@downstate.edu
Research Interests: The Genetics of Puberty

Antoni D’Souza, MD (718 270 4236)
antoni.d’souza@downstate.edu
Role of prebiotics, probiotics and synbiotics in neonatal necrotizing enterocolitis. Mediators of inflammation, toll like receptors in neonatal necrotizing enterocolitis.

Stanley Fisher, MD (x1625)
stanley.fisher@downstate.edu
Aminoguanidine and effect on oxidative stress and neuroprotection

Margaret R Hammerschlag, MD (x3097)
margaret.hammerschlag@downstate.edu
Current research is concentrated on the epidemiology, immunology, diagnosis and treatment of infections due to Chlamydia pneumoniae. This includes investigation of the relationship to reactive airway disease, at cytokine production, mouse model of C. pneumoniae infection and atherosclerosis, reactive airway disease. Antibiotic treatment trials. Diagnosis and treatment of C. trachomatis infections in infants and adolescents. Sexually transmitted diseases and sexual abuse.

Ivan Hand, MD, MS, FAAP (718 245-4754)
handi@nychhc.org
Research interests include: Breastfeeding, Neonatal and Infant Nutrition, Neonatal clinical trials

Zachary Ibrahim, MD (x1912)
zibrahim@downstate.edu
Novel wireless MicroEEG for continuous brain monitoring in newborns

Robert Karp, MD (718 245-3612)
robert.karp@downstate.edu
Nutrition, lead poisoning: relation of immunization status to physical growth, hematologic status and lead level.

Stephan A. Kohlhoff, MD (x7588)
skohlhoff@downstate.edu
Chlamydial infections in children, immune responses to respiratory infections in children with asthma or allergies, antimicrobial agents, clinical trials in children, emergency preparedness.

Scott T Miller, MD (x1692) §
scott.miller@downstate.edu
Clinical aspects of pediatric sickle cell disease.

Jae L. Min, MD (x1912)
Jae.min@downstate.edu
Nebulized cuosurf in newborns, caffeine and lung mechanics in newborns

Madu Rao, MD (x1524), madu.rao@downstate.edu

Steven M. Schwarz, MD, FAAP, FACN, AGAF, (x8968)
email address: steven.schwarz@downstate.edu
RESEARCH INTERESTS: Cytokine regulation in intestinal inflammation; Effects of omega-3 fatty acids in parenteral nutrition-associated liver disease; Gastroesophageal reflux disease; Clinical and demographic characteristics in Eosinophilic Esophagitis; Obesity and upper gastrointestinal tract symptoms and disease

Amy Suss, MD (x1625)
amy.suss@downstate.edu
Research In Adolescent :
- STI’s,
- High Risk Behaviors
- Vaccine Prevention

Jiliu Xu, MD (x8968)
jiliu.xu@downstate.edu
Pathogenesis and intervention in Necrotosing enterocolocilis, gangliosides for inflammatory bowel diseases

Department of Psychiatry

Carl Cohen, MD (287-4806) §
carl.cohen@downstate.edu

Jeremy Coplan, MD (x2022) §
copstat00@aol.com
Nonhuman primate models of early life stress as pertains to human depression and anxiety disorders, using diffusion tensor imaging, magnetic resonance spectroscopy, neuroendocrine CSF profiles including corticotropic releasing-factor, HPA axis and gene expression. Investigating the role of neurogenesis in antidepressant action in nonhuman primate models of depression. Performing rodent studies focused on the role of neurogenesis and segregation. Performing clinical studies in patients with bipolar depression and panic disorder.

Daniel Cukor, PhD (x2077) §
daniel.cukor@downstate.edu

Steven Friedman, PhD, ABPP (x1750)
steven.friedman@downstate.edu
Michael Garrett, MD (x2022) §
michael.garrett@downstate.edu
Clinical research examining the phenomenology of psychosis and lack of insight in mental illness, with emphasis on auditory hallucinations. Psychoanalytic conceptions of psychosis. Cognitive behavioral treatment of schizophrenia.

Amjad Hindi, MD (x2022)
amjad.hindi@downstate.edu
Interest primarily in schizophrenia research; this includes: first episode schizophrenia and effectiveness of antipsychotic treatment; chronic schizophrenia and effectiveness of medications; schizophrenia in the elderly and quality of life and general health issues; and finally the subjective ethnography of patients with schizophrenia.

Bernice Porjesz, PhD (x2911) §
bernice.porjesz@downstate.edu

Ramotse Saunders, MD (x3077)
ramotse.saunders@downstate.edu
Neurophysiology in humans. Utilization of event-related potentials and event-related oscillations in various experimental paradigms.

Nina R Schooler, PhD (917-543-2740) §
nina.schooler@downstate.edu

Ramaswamy Viswanathan, MD, DMSc (x2352)
ramaswamy.viswanathan@downstate.edu
Psychosocial factors and treatment adherence in GYN-Oncology, and in HIV; decisional capacity; death anxiety and coping; ethical conflicts in medicine and resolution.

Department of Radiation Oncology

Kwang N Choi, MD (x1591)
kwang.choi@downstate.edu
Continuous infusion chemotherapy with hyperfractionated irradiation for locally advanced cancers. Combined chemotherapy and irradiation in cancer treatments.

Christopher Lange, DPhil (x1050)
christopher.lange@downstate.edu

Marvin Rotman, MD (x2181) §
marvin.rotman@downstate.edu

Department of Radiology

Michael Herskowitz, MD (x1996)
Studying patency of dialysis grafts after thrombolysis. Also studying patency of dialysis grafts after placing metallic stent prosthesis at sites of recurrent stenosis.

Sundeep Mangla, MD (x4141) §
sundeep.mangla@downstate.edu
Intracranial aneurysms (imaging, public health, therapy); brain arteriovenous malformations (imaging, public health, therapy); cerebrovascular occlusive disease, angioplasty and stenting; robotics, endoluminal diagnosis and intervention; acute stroke and cerebral perfusion (imaging, physiology, and therapy); nanotechnology and biomedical engineering; prospective outcomes research; basic translational research; radiologic imaging research, prospective and retrospective.

Arnold Strashun, MD (x1632)
arold.strashun@downstate.edu

Daniel L Zinn, MD (x2552)
dan.zinn@downstate.edu
Use of Doppler (Color and Power) in testicular torsion analysis. Medical education through medical and diagnostic imaging.

Harry L Zinn, MD (x1603)
harry.zinn@downstate.edu
Topics in genitourinary cross-sectional imaging.

Department of Surgery

Joshua Burack, MD (x1981)
joshua.burack@downstate.edu
Lung cancer screening in the underserved
The effect of surgeon and hospital factors in outcomes following cardiac surgery in New York State
Living anatomy of the human body - a video text.

Dale A Distant, MD (x1898)
dale.distant@downstate.edu
Immunosuppression in renal transplantation; diabetic uremia.

Lisa S Dresner, MD (x1953)
lisa.dresner@downstate.edu
Critical care; microvascular reactivity.

John G Kral, MD, PhD (x1955) §
john.kral@downstate.edu
Insulin resistance metabolic syndrome; obesity, diabetes; adipose tissue; insulin resistance; vagal function.

Theophilus Lewis, MD (x2155)
theophilus.lewis@downstate.edu
Nutrition support.
Thomas McIntyre MD (x1421)
Thomas.mcintyre@downstate.edu
surgery and public health, surgical disparities, global surgery
Gainosuke Sugiyama, MD (x6718)  
gainosuke.sugiyama@downstate.edu

Nabil Sumrani, MD (x1898)  
nabil.sumrani@downstate.edu
Renal transplantation and diabetes.

Department of Urology

Jeffrey Weiss, MD (x2554)  
jeffrey.weiss@downstate.edu
Brian K. McNeil, MD (x2554)
briankeithmcneil@gmail.com
The department is engaged in a broad range of clinical research involving all aspects of urology. Topics include various aspects of BPH, prostate cancer, laparoscopic surgery, voiding dysfunction, sexual dysfunction, community outreach/education programs, and other areas.

Division of Humanities in Medicine

Kathleen E Powderly, PhD (x3322)  
kathleen.powderly@downstate.edu
Ethical and legal issues in HIV disease. Ethical issues for first responders in the era of terrorism; history of medicine; perinatal ethical issues.

SCHOOL OF PUBLIC HEALTH

Department of Epidemiology & Biostatistics

Elizabeth Helzner, PhD (347-557-1107)  
elizabeth.purchasehelzner@downstate.edu
Epidemiology of aging, neuroepidemiology, and chronic disease epidemiology, specifically age-related hearing loss and Alzheimer’s Disease.

Pascal J Imperato, MD (x1056)  
pascal.imperato@downstate.edu

Michael A. Joseph, PhD, MPH (x1061)  
michael.joseph@downstate.edu
HIV/AIDS in the black community, cancer and social epidemiology, and international public health capacity development.

Michael Szarek, PhD, MS (804-7834) Statistical research interests include missing data issues in illness-death models and surrogate endpoints in cardiovascular and oncology clinical trials. Additional interests in worldwide regulatory policies and strategies for the design and conduct of clinical trials.

Michael Walsh, PhD  
michael.walsh@downstate.edu
The occurrence of toxocariasis in the urban environment and its potential association with poor lung function and poor cognitive development in children. Also, the relationship between arthropod-borne and zoonotic infections and hydrogeography, forest fragmentation, and climate in New York State.
Department of Community Health Sciences

Aimee Afable-Munsuz, PhD, MPH (x6397)
aimee.afable-munsuz@downstate.edu
Focus on understanding and documenting how migration and chronic exposure to US environment influences the development of obesity and diabetes in US immigrants. Also, how obesity and diabetes prevention programs, previously demonstrated to be efficacious in clinical trials, to high-risk, under-served and/or working class populations.

Denise M. Bruno, MD, MPH (x2954)
denise.bruno@downstate.edu
Interests include general pediatric issues, including vaccinepreventable illnesses, environmental exposures (lead, mercury), asthma, obesity, teen pregnancy and learning difficulties. In addition, currently working to identify specific factors that contribute to parents' decision-making about vaccines for their children.

Tracey E. Wilson, PhD (x3746)
tracey.wilson@downstate.edu
Behavioral intervention and evaluation research, HIV/STI prevention, behavioral issues related to women's sexual and reproductive health.

Department of Environmental & Occupational Health Sciences

Laura A. Geer, PhD, MHS (221-5267)
laura.geer@downstate.edu
The use of biological markers of exposure and effect to study maternal and perinatal exposures to chemicals. Epidemiologic study of the association between maternal environmental and occupational exposures and infant health outcomes. Other research interests include dermal exposure assessment in occupational and environmental settings, psychosocial risk factors of exposure, and risk assessment and communication.

Mira M. Gricesheff, PhD, MS (x1790)
mira.grice@downstate.edu
Examination how work/family conflict impacts the mental and physical health of women following childbirth and how the experience of domestic violence can influence workforce participation.

Paul A. Landsbergis, PhD, EdD, MPH (x1075)
paul.landsbergis@downstate.edu
The epidemiologic study of occupational stress, work organization, psychosocial factors, socioeconomic status, hypertension, cardiovascular disease, psychological distress and the changing nature of work - including current trends such as downsizing, outsourcing, restructuring, privatization, lean production, new public management, part-time and temporary work, and increasing work hours and job demands.

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