Child Health Research Directory

The Jack and Lucy Department of Pediatrics
The Mindich Child Health and Development Institute
Icahn School of Medicine at Mount Sinai
Kravis Children’s Hospital
The Jack and Lucy Clark
Department of Pediatrics
Lisa M. Satlin, M.D., Chair

Mindich Child Health and
Development Institute
Bruce D. Gelb, M.D., Director

Department of Environmental Medicine
and Public Health
Robert O. Wright, M.D., M.P.H., Chair
Rachel A. Annunziato, Ph.D.
Associate Professor of Pediatrics (Behavioral and Developmental Pediatrics)

Lab/Location: Annenberg 4-51
Email: rachel.annunziato@mssm.edu

Research Interests: Dr. Annunziato’s research focuses primarily on the psychosocial needs of medically ill children and adults. She is interested in the transition to adulthood for adolescents with a medical illness. Her research in this area aims to develop interventions to improve medical and mental health outcomes when patients are shifted from pediatric to adult oriented settings.

Type of Research: Clinical/Translational

Publications:


Manish Arora, B.D.S., M.P.H., Ph.D.
Associate Professor and Vice Chairman, Department of Environmental Medicine and Public Health

Institute Affiliation: Institute for Exposomic Research; Mindich Child Health and Development Institute

Lab/Location: Atran 3-02
Email: manish.arora@mssm.edu

Research Interests: Dr. Arora conducts laboratory and epidemiologic studies on environmental health. His team has developed a biomarker of fetal exposure to environmental chemicals using deciduous and permanent teeth. He also studies the environmental determinants of oral health.

Type of Research: Clinical/Translational

Publications:


Margaret Baron, M.D., Ph.D.
Professor of Medicine (Hematology and Medical Oncology), Developmental and Regenerative Biology, and Oncological Sciences

Institute Affiliations: Tisch Cancer Institute; Black Family Stem Cell Institute

Lab/Location: Annenberg 24-68
Email: margaret.baron@mssm.edu

Research Interests: The research in the Baron lab combines embryology and stem cell biology, with a focus on hematopoietic development. The lab has a longstanding interest in embryonic hematopoiesis and more recently has been studying mechanisms regulating the development and maturation of adult-type (definitive) erythroid progenitors.

Type of Research: Basic/Translational

Publications:


Keith Benkov, M.D.  
Associate Professor of Pediatrics (Gastroenterology) and Division Chief of Gastroenterology  
Medical Director, Children's Inflammatory Bowel Disease Center  
Lab/Location: 5 E. 98th Street, 10th Floor  
Email: keith.benkov@mssm.edu  

Research Interests: Dr. Benkov investigates the outcomes of children and adolescents with inflammatory bowel disease (IBD), based on a large national registry of over 27,000 patients. His particular interests include the genetic aspects of IBD, the unique clinical phenotype on young children presenting with IBD, transition of grown patients to adult providers and the role of anxiety in IBD.  

Type of Research: Clinical/Translational  

Publications:  


Rosen D, Annunziato R, Colombel JF, Dubinsky M, Benkov K. Transition of Inflammatory Bowel Disease Care: Assessment of Transition Readiness Factors and Disease Outcomes in a Young Adult Population. Inflamm Bowel Dis. 2016 Mar;22(3):702-8.  


M. Cecilia Berin, Ph.D.  
Associate Professor of Pediatrics (Allergy and Immunology)  
Institute Affiliations: Immunology Institute; Mindich Child Health and Development Institute; Tisch Cancer Institute  
Lab/Location: Hess CSM 5-301  
Email: cecilia.berin@mssm.edu  

Research Interests: Dr. Berin studies mechanisms of tolerance and allergy to foods. Using mouse models of food allergy as well as samples from patients enrolled in clinical trials, her goal is to understand how allergic sensitization to foods occurs, and to identify ways to manipulate the immune response to re-establish immune tolerance.  

Type of Research: Basic/Translational  

Publications:  


James J. Bieker, Ph.D.
Professor of Developmental and Regenerative Biology

Institute Affiliations: Mindich Child Health and Development Institute; Black Family Stem Cell Institute; Tisch Cancer Center

Lab/Location: Annenberg, 25-84B
Email: james.bieker@mssm.edu

Research Interests: We are actively pursuing the mechanism of action of the EKLF (KLF1) transcription factor using biochemical, molecular, cellular, and developmental approaches. Our focus is on illuminating EKLF-directed transcriptional and epigenetic controls that lead to regulated erythroid gene expression, and in determining whether mutations are causative for aberrant or malignant hematolgy.

Type of Research: Basic/Translational

Publications:


Dusan Bogunovic, Ph.D.
Assistant Professor, Department of Microbiology

Lab/Location: Annenberg 16-10
Email: dusan.bogunovic@mssm.edu

Research Interests: Dr. Bogunovic’s research focuses on human immunogenetics. He studies individuals with severe clinical presentations of infections usually causing mild or no clinical disease. The hypothesis of the lab is that inter-individual variability in susceptibility to infectious agents can also be explained by the immune genetic composition of the host.

Type of Research Basic/Translational

Publications:


Brian D. Brown, Ph.D.
Associate Professor of Genetics and Genomic Sciences

Institute Affiliation:
Mindich Child Health and Development Institute;
Immunology Institute; Diabetes, Obesity and Metabolism Institute;
Tisch Cancer Institute

Lab/Location:
Hess CSM, 5th S-117

Email: brian.brown@mssm.edu

Research Interests: Dr. Brown is deciphering the molecular networks that regulate the immune system, and exploiting this information to develop strategies that can enhance or subdue immune responses. The goal of his work is to develop a vaccine that can educate the immune system to prevent or reverse autoimmune diseases, such as type I diabetes.

Type of Research: Basic/Translational

Publications:


Supinda Bunyavanich, M.D., M.P.H.
Associate Professor of Pediatrics (Allergy and Immunology) and Genetics and Genomic Sciences

Institute Affiliations:
Jaffe Food Allergy Institute; Mindich Child Health and Development Institute;
Icahn Institute for Multiscale Biology

Lab/Location: Icahn 13-70D

Email: supinda.bunyavanich@mssm.edu

Research Interests: Dr. Bunyavanich combines tools in epidemiology, genomics, and sequence analysis to study asthma and allergic diseases in human cohorts.

Type of Research: Clinical/Translational

Publications:


**Joseph Buxbaum, Ph.D.**  
Vice Chair for Research and Mentoring, Department of Psychiatry; Director, Seaver Autism Center for Research and Treatment; Professor of Psychiatry, Neuroscience, and Genetics and Genomic Sciences  

**Institute Affiliations:** Mindich Child Health and Development Institute; Friedman Brain Institute  

**Lab/Location:** Annenberg 22-24  
**Email:** joseph.buxbaum@mssm.edu  

**Research Interests:** Dr. Buxbaum is interested in understanding the causes of childhood onset psychiatric disorders so that he can develop new treatments. He leads a very extensive program in autism including genetics, model systems, clinical research, and treatment research.  

**Type of Research:** Basic/Translational  

**Publications:**  

**Minji Byun, Ph.D.**  
Assistant Professor of Medicine  
**Institute Affiliation:** Precision Immunology Institute; Mindich Child Health and Development Institute  
**Lab/Location:** Icahn 11-20D (office), Icahn 11-02 (lab)  
**Email:** minji.byun@mssm.edu  

**Research Interests:** Byun laboratory is interested in understanding the genetic basis of immune dysregulation disorders. Using various cutting-edge human genetics tools including next-gen sequencing, we identify germline and somatic mutations in patients with rare and severe immune dysregulation disorders. We then conduct functional studies of the candidate sequence variants to evaluate the evidence supporting their causality and to elucidate immunological mechanisms underlying the disease.  

**Type of Research:** Basic/Translational  

**Publications:**  
Ross L. Cagan, Ph.D.
Professor of Cell, Developmental and Regenerative Biology and Director, Center for Personalized Cancer Therapeutics
School of Biological Sciences

Institute Affiliation: Mindich Child Health and Development Institute

Lab/Location: Annenberg 25-40

Email: ross.cagan@mssm.edu

Research Interests: The Cagan lab uses Drosophila to explore cancer, diabetes, and rare Mendelian diseases with the goal of developing drug therapeutics designed to account for whole animal complexity. Using current human sequencing efforts, they have developed multigenic cancer models designed to capture the complexity observed in human disease. In addition, the lab has developed a collaborative platform that combines fly genetics with medicinal and computational chemistry to build a new generation of ‘polypharmacology’ leads designed to address disease complexity.

Type of Research: Basic/Translational

Publications:


Chen-Leng Cai, Ph.D.
Associate Professor of Cell, Developmental and Regenerative Biology

Institute Affiliation: Mindich Child Health and Development Institute

Lab/Location: Hess CSM 7-105

Email: chenleng.cai@mssm.edu

Research Interests: The main research interests in the Cai laboratory are to define the molecular and cellular mechanisms underlying heart development, disease and regeneration. Specifically, we aim to understand how distinct origins of cardiac progenitor cells form the heart, whether these progenitor cells contribute to heart repair or regeneration upon injury. In addition, we try to understand how diverse signals, especially transcriptional factors, regulate heart formation and function.

Type of Research: Basic/Translational

Publications:


Sultana N, Zhang L, Yan J, Chen J, ... Cai CL. Resident c-kit(+) cells in the heart are not cardiac stem cells. Nature Communications. 2015 Oct 30;6:8701.


**Patrizia Casaccia, M.D., Ph.D.**
Professor of Neuroscience, Genetics and Genomics, Neurology; Chief, Center of Excellence for Myelin Repair

**Institute Affiliation:**
Mindich Child Health and Development Institute

**Lab/Location:** Icahn 10th Floor, Room 70F

**Email:** patrizia.casaccia@mssm.edu

**Research Interests:** Dr. Casaccia's lab adopts state-of-the art molecular and cellular techniques to define key questions related to environment/gene interaction in physiological brain development and in pathological conditions. Her research addresses mechanisms relevant to pathogenesis and treatment of neurodevelopmental disorders characterized by impaired myelin formation as detected in premature babies, genetic disorders, traumatic brain injury.

**Type of Research:** Basic and Clinical Translational

**Publications:**


Gacias M, Gaspari S, Santos PM, ... **Casaccia P**. Microbiota-driven transcriptional changes in prefrontal cortex override genetic differences in social behavior. *Elife*. 2016 Apr 20;5.


**Mirna Chehade, M.D., M.P.H.**
Associate Professor of Pediatrics (Allergy and Immunology) and Medicine (Gastroenterology)

Director, Mount Sinai Center for Eosinophilic Disorders, Jaffe Food Allergy Institute

**Institute Affiliation:**
Jaffe Food Allergy Institute

**Lab/Location:** Icahn L6-90, Icahn 11th Floor

**Email:** mirna.chehade@mssm.edu

**Research Interests:** Dr. Chehade's research is focused on allergic eosinophilic gastrointestinal disorders, including eosinophilic esophagitis and eosinophilic gastroenteritis. She studies clinical outcomes of therapies as well as the immunopathogenesis of these diseases, and is examining for non-invasive blood and urine biomarkers for these diseases.

**Type of Research:** Clinical/Translational

**Publications:**


**Jia Chen, ScD**  
Professor, Departments of Environmental Medicine and Public Health, Pediatrics, Hematology and Medical Oncology, and Oncological Sciences  
**Institute Affiliation:** Institute for Exposomic Research; Mindich Child Health and Development Institute; Tisch Cancer Institute  
**Lab/Location:** Annenberg 21-94  
**Email:** jia.chen@mssm.edu  
**Research Interests:** Chen’s lab uses a molecular epidemiology approach to understand complex interactions between the environment and genome/epigenome in human diseases. Her lab performs genomic and epigenomic analyses in population studies to elucidate disease mechanisms and to identify/validate biomarkers for disease risk and prognosis.  
**Type of Research:** Basic/Translational  
**Publications:**  
Li Q, Kappil MA, Li A, Dassanayake PS, ...Chen J. Exploring the associations between microRNA expression profiles and environmental pollutants in human placenta from the National Children’s Study (NCS). *Epigenetics*. 2015 10(9):793-802.

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**Jaime Chu, M.D.**  
Assistant Professor of Pediatrics (Hepatology)  
**Institute Affiliations:** Recanati-Miller Transplant Institute; Mindich Child Health and Development Institute  
**Lab/Location:** Annenberg 25-34  
**Email:** jaime.chu@mssm.edu  
**Research Interests:** Chu’s research is focused on investigating a novel intersection of p53 and congenital disorders of glycosylation (CDG). Children with CDG have defects in N-glycosylation and present with debilitating, multi-systemic disease, including liver fibrosis. Her lab studies the role of sugar metabolism in liver fibrosis, and in embryonic and cancer cell survival.  
**Type of Research:** Basic/Translational  
**Publications:**  
Barbara Coffey, M.D., M.S.
Professor of Psychiatry, Chief of the Tics and Tourette's Clinical and Research Program
Institute Affiliation: Mindich Child Health and Development Institute
Lab/Location: 1240 Park Avenue, 1-3
Email: barbara.coffey@mssm.edu

Research Interests: Dr. Coffey has focused on the clinical course, comorbidity, phenomenology, and treatment of Tourette Disorder.

Type of Research: Clinical/Translational

Publications:


Charlotte Cunningham-Rundles, M.D., Ph.D.
Professor of Immunology, Medicine and Pediatrics; Acting Chief of Clinical Immunology, Department of Medicine
Lab/Location: Icahn 1120
Email: charlotte.cunningham-rundles@mssm.edu

Research Interests: Dr. Cunningham-Rundles is interested in the pathogenesis, characterization and treatment of primary human immune deficiency diseases. Her lab investigates the genetics and functions of B cells in primary immune defects and autoimmunity.

Type of Research: Basic/Translational

Publications:


Robert J. Desnick, Ph.D., M.D.
Dean for Genetics and Genomic Medicine;
Professor and Chair Emeritus of Genetic and Genomic Sciences
Office: Icahn 14-34
Email: robert.desnick@mssm.edu
Research Interests: Dr. Desnick’s research interests include genomics, gene discovery, pharmacogenetics, and inborn errors of metabolism. His translational research includes drug development for treatment of genetic diseases.
Type of Research: Basic, Clinical, Translational
Publications:


Angela Diaz, M.D., Ph.D., M.P.H.
Professor of Pediatrics (Adolescent Medicine) and Preventive Medicine
Lab/Location: 320 East 94th St.
Email: angela.diaz@mssm.edu
Research Interests: Dr. Diaz’s research interests focus on adolescent related issues, including cervical, anal and oral HPV persistence and risk factors among adolescent girls, the impact of physical and sexual abuse on the health and mental well being of adolescents, adolescent disclosure of abuse in primary care settings and sexual and reproductive health.
Type of Research: Clinical/Translational
Publications:

Bachorik, A, Friedman, J, Nucci-Sack, A, Horowitz, C, Diaz A. Adolescent and young adult women’s knowledge of and attitudes toward etonogestrel implants. Journal of Pediatric and Adolescent Gynecology. August 2014; In press. (Accepted manuscript)


George A. Diaz, M.D., Ph.D.
Professor of Genetics and Genomic Sciences and Pediatrics

Institute Affiliation: Icahn Institute of

Lab/Location: IMI 14-52

Email: george.diaz@mssm.edu

Research Interests: The main research interests of the Diaz laboratory and clinical research group are to define the genetic basis underlying mendelian disorders, particularly inborn errors of metabolism. Ongoing efforts include the application of next generation sequencing technologies to characterize undiagnosed rare diseases and clinical trial work to develop new therapies for mendelian disorders.

Type of Research: Clinical/Translational

Publications:


Marla Dubinsky, M.D.
Professor of Pediatrics
Professor of Medicine

Lab/Location: 17 East 102nd Street, 5th Floor, Area D

Email: marla.dubinsky@mssm.edu

Research Interests: Dr. Dubinsky’s main research interests are the influence of genetics and immune responses on the variability in clinical presentations of early-onset IBD and prognosis. Additional interests include the study of pharmacogenetics to evaluate how heredity influences drug responses and optimizing and individualizing the management of IBD as well as the impact of IBD on fertility and pregnancy.

Type of Research: Clinical/Translational

Publications:


Nicole C. Dubois, Ph.D.
Assistant Professor of Cell, Developmental and Regenerative Biology

Institute Affiliations: Mindich Child Health and Development Institute; Black Family Stem Cell Institute

Lab/Location: Hess CSM, 8th Floor

Email: nicole.dubois@mssm.edu

Research Interests: The research in the Dubois lab focuses on understanding development and disease of the human heart using the pluripotent stem cell model. Specifically, the lab is interested in investigating the molecular mechanisms directing lineage specification with the aim to translate our knowledge to better understand human congenital heart disease.

Type of Research: Basic/Translational

Publications:


Dani Dumitriu, M.D., Ph.D.
Assistant Professor of Neuroscience

Institute Affiliation: Mindich Child Health and Development Institute

Lab/Location: Hess 10th Floor

Email: dani.dumitriu@mssm.edu

Research Interests: Dr. Dumitriu studies the neurobiological basis for resilience to social stress in a mouse model. Her lab utilizes a combination of state-of-the art techniques, including viral-mediated circuit mapping, high resolution confocal microscopy of dendritic spines, quantitative whole-brain immunohistochemistry, and graph theory analysis of network dynamics.

Type of Research: Basic/Translational

Publications:

Young ME, Ohm DT, Dumitriu D, Rapp PR, Morrison JH. Differential effects of aging on dendritic spines in visual cortex and prefrontal cortex of the rhesus monkey. Neuroscience 2014; Aug 22; 274:33-43


David Dunkin, M.D.  
Assistant Professor of Pediatrics (Gastroenterology and Nutrition)  

**Institute Affiliation:** Mindich Child Health and Development Institute  
**Lab:** Icahn 11-26  
**Email:** david.dunkin@mssm.edu

**Research Interests:** Dr. Dunkin is interested in understanding the mechanism by which the human body develops or fails to develop tolerance to foreign antigens including food and intestinal flora that leads to diseases such as allergies and inflammatory bowel disease. Using animal models, he is investigating the mechanisms of epicutaneous exposure leading to the induction of tolerance to antigens. The goal is to apply this knowledge towards the treatment of diseases including food allergies and IBD. In addition, Dr. Dunkin and his collaborators in the Center for Chinese Medicine are investigating the use of Chinese herbal therapies in both murine models and in humans for the treatment of IBD.

**Type of Research:** Basic/Translational

**Publications:**


Lisa Eiland, M.D.  
Assistant Professor of Pediatrics (Newborn Medicine)  

**Institute Affiliation:** Mindich Child Health and Development Institute  
**Lab/Location:** Mount Sinai West, 1000 10th Avenue, 10th Floor  
**Email:** lisa.eiland@mountsinai.org

**Research Interests:** Dr. Eiland's research interests are on the effects of stress on the developing brain. Particularly, how NICU stressors may contribute to increased adverse neurodevelopmental outcome in the preterm infant.

**Type of Research:** Clinical/Translational

**Publications:**


**Vilma Gabbay, M.D., M.S.**  
Associate Professor of Psychiatry and Neuroscience  
Chief, Pediatric Mood and Anxiety Disorders Program  
**Institute Affiliation:** Mindich Child Health and Development Institute  
**Lab/Location:** Behavioral Science Unit, 1240 Park Ave (Lab Entrance: 96th Street)

**Email:** vilma.gabbay@mssm.edu

**Research Interests:** Dr. Gabbay studies the neurological and immunological mechanisms that contribute to the development and maintenance of mood disorders in youth. Her research efforts utilize an array of sophisticated, cutting-edge techniques, including functional magnetic resonance (MR) imaging, MR spectroscopy, immunological and genetic assays, and comprehensive clinical evaluations.

**Type of Research:** Clinical/Translational

**Publications:**
- Parvaz MA, **Gabbay V,** Malaker P, Goldstein RZ. Objective and Specific Tracking of Anhedonia via Event-Related Potentials in Individuals with Cocaine Use Disorders. *Drug and Alcohol Dependence.* 2016; 164: 158-165.

**Maida P. Galvez, M.D., M.P.H.**  
Associate Professor of Departments of Environmental Medicine and Public Health and Pediatrics  
**Institute Affiliation:** Institute for Exposomic Research  
**Lab/Location:** 17 East 102nd St., 2nd Floor

**Email:** maida.galvez@mssm.edu

**Research Interests:** Dr. Galvez's research is focused on environmental factors that impact children’s growth and development, as well as risk communication, research translation and community engagement.

**Type of Research:** Clinical/Translational

**Publications:**
Adolfo Garcia-Ocana, Ph.D.
Professor of Medicine
(Endocrinology, Diabetes and Bone Diseases)

Institute Affiliations: Mindich Child Health and Development Institute; Diabetes, Obesity and Metabolism Institute

Lab/Location: Atran 5-02

Email: adolfo.g.ocana@mssm.edu

Research Interests: Dr. Garcia-Ocaña's research focuses on tissue regeneration, growth factors and intracellular signaling. More specifically, his group is analyzing the therapeutic potential of growth promoting agents to induce pancreatic beta cell regeneration for diabetes treatment.

Type of Research: Basic

Publications:


Bruce D. Gelb, M.D.
Professor of Pediatrics (Cardiology) and Genetics & Genomic Sciences; Director of The Mindich Child Health and Development Institute

Institute Affiliation: Mindich Child Health and Development Institute

Lab: Hess CSM 8-301

Email: bruce.gelb@mssm.edu

Research Interests: Dr. Gelb is interested in uncovering and then understanding the genetic causes of congenital heart defects (CHD). Using state-of-the-art genomic approaches, his research group is studying Mendelian and complex traits with CHD, and then models disease genes in cells and animals.

Type of Research: Basic/Translational

Publications:


Chris Gennings, Ph.D.
Professor of Environmental Medicine and Public Health

_institute affiliation:_ Institute for Exposomic Research; Mindich Child Health and Development Institute

**Lab/Location:** CAM D3-134

**Email:** chris.gennings@mssm.edu

**Research Interests:** Dr. Gennings’ research focuses on development of novel biostatistical methods for designing and analyzing studies of mixtures, including environmental chemical mixtures and nutrients. An example includes the development of a method to estimate the “bad actors” in a mixture that are most related to a health outcome.

**Type of Research** Basic/Translational

**Publications:**


Dorothy E. Grice, M.D.
Professor of Psychiatry; Director, OCD and Related Disorders Clinical and Research Program; Associate Director, Tics and Tourette’s Clinical and Research Program

_institute affiliations:_ Friedman Brain Institute; Mindich Child Health and Development Institute

**Lab/Location:** 1425 Madison Avenue

**Email:** dorothy.grice@mssm.edu

**Research Interests:** Dr. Grice focuses on the phenomenology, genetics and biology of tic disorders, OCD and autism. Specific programs include epidemiological studies of genetic and environmental risks for OCD and tic disorders (Denmark and Sweden), molecular genetic studies of tic disorders and OCD, and characterization of genes implicated in risk for OCD and tic disorders.

**Type of Research:** Clinical/Translational

**Publications:**


Peter Heeger, M.D.
Professor of Medicine (Nephrology)

Institute Affiliations:
Immunology Institute; Recanati Miller Transplant Institute (Director of Research)

Lab/Location: Annenberg 21-32
Email: peter.heeger@mssm.edu

Research Interests: The focus of the Heeger research program is transplantation immunology and complement biology. The lab uses mouse models to identify mechanisms of immune injury and tolerance and then apply the findings to develop monitoring and treatment strategies in human transplant recipients with the long term goal of prolonging allograft survival and improving patient health.

Type of Research: Basic/Translational

Publications:


Tom Hildebrandt, Psy.D.
Assistant Professor of Psychiatry; Director, Eating and Weight Disorders Program

Lab/Location: 1425 Madison Ave, 6th Floor
Email: tom.hildebrandt@mssm.edu

Research Interests: Dr. Hildebrandt studies the neuroendocrinology of eating and weight disorders and anabolic-androgenic steroid use, with special interest in disruption of gonadal and appetite hormones and their influences on emotional and eating disturbances. He uses the identification of these neurobiological mechanisms to guide the development of behavioral and family based treatments for adolescents and adults.

Type of Research: Clinical/Translational

Publications:


Carol R. Horowitz M.D., M.P.H.
Professor, Department of Population Health Science and Policy
Professor, Department of Medicine
Co-Director, Center for Health Equity and Community Engaged Research

Lab/Location: East Building 2-42
Email: carol.horowitz@mssm.edu

Research Interests: Dr. Horowitz is a health services researcher and practicing general internist who has been PI and investigator part of numerous NIH, CDC and PCORI grants related to chronic disease prevention and control, and has implemented and evaluated programs to improve the quality of care and outcomes of diverse populations of adults with diabetes, obesity, cardiovascular disease and other health conditions through clinical and community programs.

Type of Research: Clinical/Translational

Publications:

Megan K. Horton, Ph.D., M.P.H.
Assistant Professor of Environmental Medicine and Public Health

Institute Affiliation: Institute for Exposomic Research; Mindich Child Health and Development Institute;

Lab/Location: CAM 3rd Floor
Email: megan.horton@mssm.edu

Research Interests: Dr. Horton’s research focuses on understanding the mechanisms through which prenatal and early childhood exposure to environmental toxicants adversely affect children’s health.

Type of Research: Basic/Translational

Publications:
Ethylin Wang Jabs, M.D.
Professor of Genetics & Genomic Sciences, Pediatrics, and Developmental and Regenerative Biology

Lab/Location: Icahn 14-76
Email: ethylin.jabs@mssm.edu

Research Interests: Dr. Jabs has a strong interest in understanding the genetic basis of birth defects. Her research is focused on craniofacial disorders including craniosynostosis and cleft lip and palate. Her group uses developmental biology and “omic” approaches to study the pathogenetic mechanisms, signaling pathways and networks involved in developmental processes. Based on these findings, therapeutic strategies are being tested in animals models.

Type of Research: Basic/Translational

Publications:


Allan C. Just, Ph.D.
Assistant Professor of Environmental Medicine and Public Health

Institute Affiliation: Institute for Exposomic Research; Mindich Child Health and Development Institute

Lab/Location: CAM D3-131
Email: allan.just@mssm.edu

Research Interests: Dr. Just’s research focuses on molecular epidemiologic approaches to children's environmental health using high-dimensional satellite and epigenomic data to develop exposure models and novel biomarkers. He links common environmental exposures, including phthalates and air pollution with children's health outcomes including gestational age, growth, and obesity.

Type of Research: Clinical/Translational

Publications:


**Alex Kolevzon, M.D.**
Professor of Psychiatry and Pediatrics;  
Clinical Director, Seaver Autism Center for Research and Treatment  
**Institute Affiliation:** Friedman Brain Institute  
**Lab/Location:** Icahn, 4-32

**Email:** alexander.kolevzon@mssm.edu

**Research Interests:** Dr. Kolevzon's research is focused on developing new pharmacological treatments in autism spectrum disorders. He collaborates with basic scientists at the Seaver Autism Center where genetic discovery in autism leads to the use of model systems and testing targeted molecular therapeutics. Dr. Kolevzon leads the clinical research team to then study these compounds in clinical trials.

**Type of Research:** Clinical/Translational

**Publications:**


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**Amy R. Kontorovich, M.D., Ph.D.**
Assistant Professor of Medicine, Cardiology  
Medical Director of Adult Cardiovascular Genetics  
**Institute Affiliation:** Mindich Child Health and Development Institute; The Zena and Michael A. Wiener Cardiovascular Institute  
**Lab/Location:** Hess CSM 8-301

**Email:** amy.kontorovich@mountsinai.org

**Research Interests:** Dr. Kontorovich studies the role of human genetic factors in the pathogenesis of myocarditis. We use human induced pluripotent stem cell-derived cardiomycetes and CRISPR/Cas9 gene editing to model myocarditis in vitro. In parallel, we use genomic approaches to study myocarditis in affected cohorts.

**Type of Research:** Basic/Translational

**Publications:**

Robert S. Krauss, Ph.D.
Professor of Developmental and Regenerative Biology and Oncological Sciences

Institute Affiliations:
Black Family Stem Cell Institute; Tisch Cancer Institute; Mindich Child Health and Development Institute

Lab: Annenberg 25-70

Email: robert.krauss@mssm.edu

Research Interests: Dr. Krauss, a cell and developmental biologist, is interested in mechanisms of cell adhesion and signal transduction during fetal development and how when these processes go awry it contributes to birth defects and disease. One area of focus is the role of the Hedgehog pathway in midline patterning, defects in which cause the common and devastating birth defect holoprosencephaly.

Type of Research: Basic/Translational

Publications:


Philip J. Landrigan, M.D., M.Sc., D.I.H.
Professor of Environmental Medicine and Public Health; Professor of Pediatrics and Dean for Global Health

Institute Affiliation: Institute for Exposomic Research; Mindich Child Health and Development Institute

Lab/Location: Annenberg 21-102

Email: phil.landrigan@mssm.edu

Research Interests: Dr. Landrigan has a strong interest in discovering how environmental exposures in prenatal and early postnatal life – in particular, toxic chemicals – influence health and development in children and across the entire human lifespan. He has studied the developmental toxicity of heavy metals, pesticides and endocrine disruptors. He is currently studying the impacts of global pollution on child health and co-chairs a Lancet Commission on Pollution & Health.

Type of Research: Clinical/Translational

Publications:


Xiu-Min Li, M.D., M.S.
Professor of Pediatrics
(Allergy and Immunology)

Institute Affiliations:
Jaffe Food Allergy Institute;
Mindich Child Health and Development Institute

Lab/Location: Altenburg 17-25 and 17-80

Email: xiu-min.li@mssm.edu

Research Interests: Dr. Li's research focuses on understanding the mechanisms underlying the pathogenesis of allergic diseases including food allergy and allergic asthma, and on developing novel therapies for these diseases, including immunomodulators, natural products, and novel active compounds isolated from natural products.

Type of Research: Basic/Translational

Publications:


Shelley H. Liu, Ph.D.
Assistant Professor, Center for Biostatistics, Department of Population Health Science and Policy

Institute Affiliation: Mindich Child Health and Development Institute

Lab/Location: 1425 Madison Ave, 2nd Floor

Email: shelley.liu@mountsinai.org

Research Interests: Dr. Liu is a biostatistician, focusing on longitudinal data analysis, Bayesian statistics, latent class analysis and statistical issues arising from cohort studies. She is interested in developing statistical methods for environmental health research, such as estimating the health effects associated with exposure mixtures, and identifying critical time windows of vulnerability.

Type of Research: Clinical/Translational

Publications:
**Ruth J.F. Loos, Ph.D.**
Professor of Environmental Medicine and Public Health; Director, Genetics of Obesity and Related Metabolic Traits Program

**Institution Affiliation:** Institute for Exposomic Research; Mindich Child Health and Development Institute

**Lab/Location:** Annenberg 18-80

**Email:** ruth.loos@mssm.edu

**Research Interests:** Dr. Loos’ interests focus on the identification of genetic loci contributing to risk of obesity and related metabolic traits. She has led several large-scale gene-discovery efforts for obesity-related traits and has contributed to similar efforts for metabolic traits. Increasingly, her gene discovery work focuses on the identification of low-frequency variants through the implementation of exomechip and sequencing projects, in particular in non-white ancestry populations. Her work also assesses the predictive value of established genetic loci and their interaction with lifestyle factors.

**Type of Research:** Translational

**Publications:**


**Roberto Lucchini, M.D.**
Director, Division of Occupational and Environmental Medicine; Professor of Preventive Medicine

**Institute Affiliation:** Institute for Exposomic Research

**Lab/Location:** CAM D3-112

**Email:** roberto.lucchini@mssm.edu

**Research Interests:** Dr. Lucchini’s research focuses on neurotoxic effects from occupational and environmental exposure to chemicals including manganese, lead, mercury, PCB, solvents, pesticides. A variety of motor, cognitive, sensory and endocrine outcomes are related to the exposure in different age groups including children, workers, and elderly.

**Type of Research:** Clinical/Translational

**Publications:**


Nadia Micali, M.D., Ph.D., MSc
Associate Professor, Psychiatry

Institute Affiliation: Mindich Child Health and Development Institute

Lab/Location: Icahn Building 4th floor

Email: nadia.micali@mssm.edu

Research Interests: Dr. Micali’s research focuses on developmental risk mechanisms for eating and weight disorders, including inter-generational risk. Using population-based and clinical studies her goal is to determine how eating behaviors, eating and weight disorders develop across childhood and adolescence, in order to improve early intervention, prevention and treatment.

Type of Research: Clinical/Translational

Publications:


Marek Mlodzik, Ph.D.
Professor and Chair, Department of Developmental and Regenerative Biology

Institute Affiliation: Friedman Brain Institute, Mindich Child Health and Development Institute, Tisch Cancer Institute

Lab/Location: Annenberg 18th floor

Email: marek.mlodzik@mssm.edu

Research Interests: Interests of the Mlodzik lab focus on the regulation of Wnt-Planar Cell Polarity (PCP) signaling and its involvement in embryonic development and organogenesis, utilizing a combination of Drosophila genetics and cell biology state-of-the-art techniques to dissect the molecular framework underlying cell polarity and patterning aspects of PCP during development and disease.

Type of Research: Basic/Translational

Publications:


Research Interests: The goal of Dr. Morishita's research is to identify the cortical mechanisms of developmental critical periods to establish (1) perception and (2) cognition such as attention and social cognition relevant to neurodevelopmental and psychiatric disorders. We take an integrated approach combining molecular, anatomical, imaging, electrophysiological, and behavior methodologies using mouse models.

Type of Research: Basic/Translational

Publications:


Research Interests: Dr. Nestler's research focuses on identifying the neurobiological basis of drug addiction and depression in rodent models. He studies the molecular and cellular changes that occur in regions of the brain important for reward and motivation in response to chronic administration of a drug of abuse or chronic exposure to stress. He is particularly interested in long-lasting changes that are mediated via alterations in gene expression and chromatin remodeling. The result of his research will guide future efforts toward the development of more effective treatments for addiction and depression.

Type of Research: Basic/Translational

Publications:


Maria I. New, M.D.
Professor of Pediatrics (Endocrinology) and Genetics & Genomic Sciences
Director, Adrenal Steroid Disorders Program

Lab/Location: Annenberg 4th Floor
Email: maria.new@mssm.edu

Research Interests: Dr. New is interested in discovering and then understanding the genetic causes of adrenal steroid disorders, including congenital adrenal hyperplasia (CAH). Her research emphasizes genotype/phenotype correlation and prenatal diagnosis and treatment.

Type of Research: Clinical/Translational

Publications:


Jeffrey H. Newcorn, M.D.
Associate Professor of Psychiatry (Child and Adolescent Psychiatry) and Pediatrics
Director, Division of ADHD and Learning Disorders;
Director, Pediatric Psychopharmacology

Institute Affiliation: Friedman Brain Institute
Lab/Location: 19 East 98th St. 5th Floor
Email: jeffrey.newcorn@mssm.edu

Research Interests: Dr. Newcorn studies the neurobiological basis of attention-deficit/hyperactivity disorder (ADHD), and clinical efficacy and mechanism of action of stimulant and non-stimulant medications. He conducts clinical treatment studies which include neuroimaging and genetic biomarkers of response.

Type of Research: Clinical/Translational

Publications:


Anna Nowak-Wegrzyn, M.D., Ph.D.
Associate Professor of Pediatrics (Allergy and Immunology)

Institute Affiliations: Jaffe Food Allergy Institute; Mindich Child Health and Development Institute

Lab/Location: Jaffe Food Allergy Institute

Email: anna.nowak-wegrzyn@mssm.edu

Research Interests: Dr. Nowak-Wegrzyn has a special interest in food allergy. Her research focuses on egg and milk allergy treatment and pathophysiology of food protein-induced enterocolitis syndrome (FPIES).

Type of Research: Clinical/Translational

Publications:


Coro Paisán-Ruiz, Ph.D.
Assistant Professor of Neurology, Genetics and Genomic Sciences, and Psychiatry

Institute Affiliations: Mindich Child Health and Development Institute; Friedman Brain Institute

Lab/Location: Annenberg 22-38

Email: coro.paisan-ruiz@mssm.edu

Research Interests: Dr. Paisán-Ruiz’s laboratory focuses on elucidating and understanding the molecular basis underlying and contributing to movement disorders, such as Parkinson’s disease, atypical parkinsonism, and essential tremor. By collaborating with internationally recognized physicians and employing state-of-art molecular techniques, her research team has identified the first pathogenic mutations in genes underlying Mendelian forms of movement disorders.

Type of Research: Basic/Translational

Publications:


Dalila Pinto, Ph.D.
Assistant Professor of Psychiatry, and Genetics and Genomic Sciences

Institution Affiliations: Mindich Child Health and Development Institute; Seaver Autism Center, Friedman Brain Institute, Icahn Institute for Multiscale Biology

Lab/Location: Hess CSM 8-115
Email: dalila.pinto@mssm.edu

Research Interests: Dr. Pinto's laboratory focuses on identifying risk factors and pathways involved in neurodevelopmental disorders, including autism, epilepsy and schizophrenia. By using a combination of innovative high-throughput experimental and bioinformatics approaches, her lab maps and characterizes various forms of genetic variation (copy number and point-mutations) that are further integrated with coding and non-coding gene expression, epigenetics and clinical data to shed light on the mechanisms underlying these disorders.

Type of Research: Basic/Translational

Publications:


Robert Rapaport, M.D.
Professor of Pediatrics and
Director of the Division of
Pediatric Endocrinology and
Diabetes

Lab/Location:
Annenberg 4 Room 4-81

Email:
robert.rapaport@mountsinai.org

Research Interests: Dr. Rapaport’s research interests are focused on three main areas: growth, growth hormone treatment and metabolic aspects of children born small for gestational age, neonatal thyroid disease and pubertal disorders.

Type of Research: Clinical/Translational

Publications:


Avi Reichenberg, Ph.D.
Professor of Psychiatry and Preventative Medicine

Institution Affiliations: Seaver Center for Autism; Mindich Child Health and Development Institute

Lab/Location: CAM West Tower D5-143

Email: avi.reichenberg@mssm.edu

Research Interests: Dr. Reichenberg’s research group focuses on the role of environmental and familial factors in the etiology of developmental and psychotic disorders. His work includes human population-based studies, molecular genetic and epigenetic, bioinformatic methods and animal models. The goal is to gain better insight into the causes of psychiatric disorders, particularly autism and schizophrenia.

Type of Research: Basic/Translational/Clinical

Publications:

Fryk JJ, Marks DC, Hobson-Peters J, Watterson D, Hall RA, Young PR, Reichenberg S, ...Seltsam A, Faddy HM. Reduction of Zika virus infectivity in platelet concentrates after treatment with ultraviolet C light and in plasma after treatment with methylene blue and visible light. Transfusion. 2017 Jul 17.


Michael Rendl, M.D.
Associate Professor, Department of Developmental and Regenerative Biology, Department of Dermatology

Institute Affiliations: Black Family Stem Cell Institute; Mindich Child Health and Development Institute

Lab/Location: Atran 7-10C
Email: michael.rendl@mssm.edu

Research Interests: Dr. Rendl's lab studies the function of stem cell niches. They utilize genetic mouse models for embryonic hair follicle formation and adult hair regeneration to uncover how Dermal Papilla niche cells instruct hair follicle stem cells. Insights from these studies will provide a platform for developing hair regenerative therapies.

Type of Research: Basic/Translational

Publications:


Jeffrey M. Saland, M.D., M.S.C.R.
Associate Professor of Pediatrics (Nephrology) and Division Chief of Nephrology

Institute Affiliation: Mindich Child Health and Development Institute
Lab/Location: Annenberg 14-22
Email: jeff.saland@mssm.edu

Research Interests: Dr. Saland participates in local and multicenter clinical studies of chronic kidney disease. He has focused on disorders of lipoprotein metabolism and cardiovascular complications in children with CKD. Dr. Saland has also been active in developing treatment for children with atypical hemolytic uremic syndrome.

Type of Research: Clinical/Translational

Publications:


Hugh A. Sampson, M.D.
Kurt Hirschhorn Professor of Pediatrics (Allergy & Immunology)
Institute Affiliations: Jaffe Food Allergy Institute;
Mindich Child Health and Development Institute;
Immunology Institute
Lab/Location: Icahn 11-26
Email: hugh.sampson@mssm.edu

Research Interests: Dr. Sampson’s research interests have focused on food allergic disorders including work on the immuno-pathogenic role of food hypersensitivity in atopic dermatitis, the pathogenesis of food-induced anaphylaxis, characterization of food-induced gastrointestinal hypersensitivities, molecular characterization of food allergens, and more recently immunotherapeutic strategies for treating food allergies.

Type of Research: Clinical/Translational

Publications:


Lisa M. Satlin, M.D.
Professor (Nephrology) and Chair of Pediatrics
Institute Affiliation: Mindich Child Health and Development Institute
Lab/Location: Annenberg 14-18, -19
Email: lisa.satlin@mssm.edu

Research Interests:
Dr. Satlin’s developmental physiology lab focuses on exploring the molecular mechanisms underlying the ability of the maturing kidney to adjust sodium and potassium balance during periods of somatic growth, and the role of variations in urinary flow rate in the mecanoregulation of ion channels and transport proteins in the kidney in health and disease.

Type of Research: Basic/Translational

Publications:


Kurt P. Schulz, Ph.D.
Assistant Professor of Psychiatry

Lab/Location: 19 East 98th St., 5th Floor
Email: kurt.schulz@mssm.edu

Research Interests: Dr. Schulz has a long record of translational research on the pathophysiology of neurodevelopmental disorders and the identification of biomarkers for treatment response. His research has focused on the role of prefrontal cortex maturation as a mechanism for the recovery from ADHD and the therapeutic actions of stimulant and non-stimulant medications for ADHD on these prefrontal processes.

Type of Research: Clinical/Translational

Publications:


Donald Scott, Ph.D.
Professor of Medicine (Endocrinology)

Institute Affiliation: Mindich Child Health and Development Institute; Obesity, Diabetes and Metabolism Institute

Lab/Location: Atran 5-17
Email: donald.scott@mssm.edu

Research Interests: Dr. Scott has a longstanding interest in how nutrients change cellular phenotype. Dr. Scott has focused on two transcription factors, ChREBP and Myc. The Myc/ChREBP relationship reflects fundamental cellular adaptations to varying metabolic environments, and is applicable to a wide range of diseases, including diabetes, cancer, cardiovascular disease and aging.

Type of Research: Basic/Translational

Publications:


Andrew Sharp, Ph.D.
Associate Professor of Genetics and Genomic Sciences

**Institute Affiliation:** Mindich Child Health and Development Institute

**Lab/Location:** Hess CSM 8-301

**Email:** andrew.sharp@mssm.edu

**Research Interests:** The Sharp lab is an integrated research environment combining both experimental and bioinformatic approaches. Dr. Sharp’s research uses genomic approaches to perform basic studies of human genome function, and a wide variety of diseases, including congenital disorders such as cleft lip/palate and spina bifida, and chromosomal disorders such as translocations and microdeletions.

**Type of Research:** Basic/Translational

**Publications:**


Barber JCK, **Sharp AJ**, Hollox EJ, Christine Tyson C (2016) Copy number variation of the REXO1L1 gene cluster; euchromatic deletion variant or susceptibility factor? *Eur J Hum Genet* 25:8-9


Eyal Shemesh, M.D.
Associate Professor of Pediatrics and Psychiatry; Division Chief of Developmental and Behavioral Pediatrics

**Institute Affiliation:** Mindich Child Health and Development Institute

**Lab/Location:** Icahn 6th Floor, L6-13

**Email:** eyal.shemesh@mssm.edu

**Research Interests:** Dr. Shemesh, who trained as both a pediatrician and a child psychiatrist, studies ways to assess and then improve the well-being (especially emotional well-being) of children and adults who suffer from medical illnesses and their families, with a particular focus on traumatic stress reactions and nonadherence to medical regimens.

**Type of Research:** Clinical/Translational

**Publications:**


Scott H. Sicherer, M.D.
Professor of Pediatrics (Allergy and Immunology) and Division Chief of Allergy and Clinical Immunology; Medical Director, Clinical Research Center
Institute Affiliation: Jaffe Food Allergy Institute (Director); Mindich Child Health and Development Institute
Lab/Location: Icahn L6-87

Email: scott.sicherer@mssm.edu

Research Interests: Dr. Sicherer has a strong interest in food allergy with research focusing on epidemiology, psychosocial issues, prevention, modalities to educate physicians and parents about food allergy, daily management, natural history, and novel therapeutics.

Type of Research: Clinical/Translational

Publications:


Philippe M. Soriano, Ph.D.
Professor of Developmental and Regenerative Biology and Oncological Sciences
Institute Affiliation: Tisch Cancer Institute (Associate Director)
Lab/Location: Annenberg 25-70
Email: philippe.soriano@mssm.edu

Research Interests: Dr. Soriano is a developmental biologist who studies growth factor signaling pathways that have important roles in mouse craniofacial development and in stem cells of the early embryo. His laboratory uses state-of-the-art molecular genetic approaches in the mouse to address the general question of how biological specificity is acquired upon engagement of growth factor signaling.

Type of Research: Basic

Publications:


Andrew F. Stewart, M.D.
Irene and Dr. Arthur M. Fishberg Professor of Medicine

Institute Affiliation:
Diabetes, Obesity and Metabolism Institute (Director)

Lab/Location: Atran 5
Email: andrew.stewart@mssm.edu

Research Interests: The Stewart lab is interested in drug discovery for human beta cell and expansion of human pancreatic beta cells for regenerative and replacement therapies for Types 1 and 2 diabetes mellitus.

Type of Research: Basic

Publications:


Annemarie Stroustrup, M.D., M.P.H.
Associate Professor of Pediatrics (Newborn Medicine) and Environmental Medicine and Public Health, and Obstetrics, Gynecology and Reproductive Science; Interim Chief, Division of Newborn Medicine

Institute Affiliation: Institute for Exposomic Research; Mindich Child Health and Development Institute

Lab/Location: P6-332
Email: annemarie.stroustrup@mssm.edu

Research Interests: Dr. Stroustrup's research focuses on modifiable causes of adverse outcomes following preterm birth or neonatal illness. She is particularly interested in understanding the impact of the hospital environment on neurodevelopmental outcomes of NICU graduates.

Type of Research: Clinical/Translational

Publications:


Shanna H. Swan, Ph.D.  
Professor of Environmental Medicine and Public Health

**Institute Affiliation:** Institute for Exposomic Research; Mindich Child Health and Development Institute

**Lab/Location:** CAM West Tower D3-135

**Email:** shanna.swan@mssm.edu

**Research Interests:** Dr. Shanna Swan is an Environmental and Reproductive Epidemiologist. Her research group examines the impact of environmental exposures on reproductive health and neurodevelopment in multi-center pregnancy cohort studies that include over 1,000 mothers and their children. This research is focused on identifying sex-differences in environmental effects, development and disease.

**Type of Research:** Clinical/Translational

**Publications:**
- Lassen TH, Frederiksen H, Kyhl HB, Swan SH, Main KM, Andersson AM, Lind DV, ...Jensen TK. Prenatal Triclosan Exposure and Anthropometric Measures including Anogenital Distance in Danish Infants. *Environmental Health Perspectives.* 2016 Feb.

Susan L. Teitelbaum, Ph.D.  
Professor of Environmental Medicine and Public Health

**Institute Affiliation:** Mindich Child Health and Development Institute; Institute for Translational Epidemiology; Tisch Cancer Institute

**Lab/Location:** CAM 2nd Floor West Tower, Room D2-132

**Email:** susan.teitelbaum@mssm.edu

**Research Interests:** Dr. Teitelbaum is a classically trained environmental and cancer epidemiologist with extensive experience in conducting epidemiologic field studies, assessing complex environmental exposures and performing advanced statistical analysis of large epidemiologic data sets. Her research focuses on the influence of the environment on children's health as well as breast cancer.

**Type of Research:** Epidemiology

**Publications:**
Nita Vangeepuram, M.D., M.P.H.
Assistant Professor, Pediatrics

**Location:** Annenberg 4th Floor

**Email:** nita.vangeepuram@mssm.edu

**Research Interests:** Dr. Vangeepuram aims to lead national efforts to prevent and treat childhood obesity and related conditions in underserved, ethnic-minority youth by leveraging the assets of community-academic partnerships. Current grant funding includes a career development award (K23, funded by NIDDK) which supports training and a study using community-based participatory research methodology as well as novel methods (peer education and mobile health technologies) to develop a model for diabetes prevention for at-risk youth. If proven effective, this model may be further tested and disseminated to other vulnerable communities with high disease burden.

**Type of Research:** Clinical/Translational

**Publications:**


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Rupangi Vasavada, Ph.D.
Associate Professor of Medicine (Endocrinology, Diabetes and Bone Disease)

**Institute Affiliation:** Diabetes, Obesity and Metabolism Institute; Mindich Child Health and Development Institute

**Lab/Location:** Atran 5-02

**Email:** rupangi.vasavada@mssm.edu

**Research Interests:** Dr. Vasavada’s research has focused on understanding the pathways and mechanisms that regulate pancreatic beta cell growth, survival, and function, in normal beta cell physiology and in the pathophysiological settings of diabetes and islet transplantation, specifically centered on the role of growth factors and the signaling and molecular pathways through which they mediate their effects.

**Type of Research:** Basic/Translational

**Publications:**


Alfin G. Vicencio, M.D.
Associate Professor of Pediatrics (Pulmonology)
and Chief of the Division of Pulmonology

**Lab/Location:** 5 East 98th Street, 10th Floor

**Email:** alfin.vicencio@mssm.edu

**Research Interests:** Dr. Vicencio is investigating sub-clinical fungal infection as a potential cause of severe, refractory asthma. Together with collaborators, he is studying deficiencies in airway immune factors that could potentially contribute to infection, and is also analyzing fluid collected from the lower airways of children for molecular evidence of infection.

**Type of Research:** Clinical/Translational

**Publications:**


Martin J. Walsh, Ph.D.
Associate Professor of Pediatrics (Gastroenterology)
and Structural and Chemical Biology

**Institute Affiliations:** Tisch Cancer Institute; Mindich Child Health and Development Institute

**Lab/Location:** Annenberg 14-30A

**Email:** martin.walsh@mssm.edu

**Research Interests:** Dr. Walsh’s area of interest is in chromatin biology of human disease and development. The focus of the laboratory is to investigate the transcriptional regulatory networks that are associated cancer and cystic fibrosis.

**Type of Research:** Basic/Translational

**Publications:**


Jianlong Wang, Ph.D.
Associate Professor of Developmental and Regenerative Biology

Institute Affiliation: Black Family Stem Cell Institute; Mindich Child Health and Development Institute
Lab/Location: Atran 7-10D
Email: jianlong.wang@mssm.edu

Research Interests: Our lab studies the molecular mechanisms underlying pluripotency and reprogramming. We employ both proteomic and genomic approaches to study protein interaction and transcriptional regulatory networks that govern stem cell pluripotency and somatic cell reprogramming. Insights from these studies will facilitate efficient generation and optimal propagation of pluripotent cells for disease therapeutics and regenerative medicine.

Website: www.stemcellwanglab.com
Type of Research: Basic

Publications:


Julie Wang, M.D.
Associate Professor of Pediatrics (Allergy and Immunology)

Institute Affiliations: Jaffe Food Allergy Institute; Mindich Child Health and Development Institute
Lab/Location: Icahn 6
Email: julie.wang@mssm.edu

Research Interests: Dr. Wang’s research interests include novel therapeutics for food allergy as well as epidemiology and management of food allergy.

Type of Research: Clinical/Translational

Publications:


Bryn D. Webb, M.D.
Assistant Professor of Genetics and Genomic Sciences
Assistant Professor of Pediatrics

Institute Affiliation: Icahn Institute for Genomics and Multiscale Biology
Lab/Location: Icahn 14-76
Email: bryn.webb@mssm.edu

Research Interests: The main research interests of the Webb laboratory are the identification of genetic etiologies of congenital anomalies, including congenital facial weakness and Moebius syndrome. Additionally, Dr. Webb studies nuclear-encoded mitochondrial disorders; specifically, she has received NIH funding to better elucidate the pathophysiology and tissue specificity of mitochondrial aminoacyl tRNA synthetase disorders.

Type of Research: Basic/Translational

Publications:


Karen M. Wilson, M.D., M.P.H., F.A.A.P.
Debra and Leon Black Division Chief and Professor of General Pediatrics, and Vice-Chair for Clinical and Translational Research

Institute Affiliation: Mindich Child Health and Development Institute
Lab/Location: 1184 5th Ave, 6th Floor
Email: karen.wilson@mssm.edu

Research Interests: Dr. Wilson studies the impact of secondhand tobacco and marijuana smoke on children, and how to help parents reduce their children’s exposures to reduce or prevent respiratory illness.

Type of Research: Clinical/Translational

Publications:


Birte Wistinghausen, M.D.
Assistant Professor of Pediatrics and Medical Director (Hematology/Oncology)

Institute Affiliations: Tisch Cancer Center; Mindich Child Health and Development Institute; Institute of Medical Education

Lab/Location: Annenberg, 4th Floor, Room 4-52

Email: birte.wistinghausen@mssm.edu

Research Interests: Dr. Wistinghausen is interested in the prevention and treatment of post-transplant lymphoproliferative disease (PTLD) in children who have received a solid organ transplant and in the role EBV virus plays in causing this disease. She is also working on defining the biology of and optimal treatment for B-lymphoblastic lymphoma. Lastly, she is interested in outcomes of survivors of childhood cancer.

Type of Research: Clinical/Translational

Publications:


Mary S. Wolff, Ph.D.
Professor of Environmental Medicine and Public Health and Oncological Sciences

Institute Affiliation: Institute for Exposomic Research

Lab/Location: CAM D3-109

Email: mary.wolff@mssm.edu

Research Interests: Dr. Wolff’s research focuses on environmental exposures, chiefly hormonally active agents in early life, and their relationships with child development, including neurobehavior, somatic growth, and pubertal timing as well as mechanisms of action.

Type of Research: Basic/Translational

Publications:


Robert O. Wright, M.D., M.P.H.
Professor and Chair, Department of Environmental Medicine and Public Health; Professor of Pediatrics; Director, Institute for Exposomic Research

Institute Affiliation: Institute for Exposomic Research

Lab/Location: Atran 3-02

Email: robert.wright@mssm.edu

Research Interests: Dr. Wright conducts epidemiologic studies of children’s environmental health, focused primarily on neurodevelopment and fetal growth. His work incorporates molecular biomarkers of effect with measures of toxic chemical exposure, social environment and nutrition.

Type of Research: Clinical/Translational

Publications:
Tauheed J, Sanchez-Guerra M, Lee JJ, Paul L, Ibne Hasan MO, Quamruzzaman Q, Selhub J, Wright RO, Christiani DC, Coull BA, Baccarelli AA, Mazumdar M. Associations between post translational histone modifications, myelomeningocele risk, environmental arsenic exposure, and folate deficiency among participants in a case control study in Bangladesh. Epigenetics. 2017 Apr 7:0.


Rosalind J. Wright, M.D., M.P.H.
Professor of Pediatrics (Pulmonology) and Environmental Medicine and Public Health; Dean for Translational Biomedical Sciences, Department of Pediatrics

Institute Affiliation: Institute for Exposomic Research

Lab/Location: 5 E. 98th Street, 10th Floor

Email: rosalind.wright@mssm.edu

Research Interests: Dr. Wright has a primary interest in life course epidemiology and in particular early life (prenatal and early childhood) programming of chronic disorders including asthma, obesity, neurodevelopment, and lung growth. This work focuses on population-based studies considering the role of both social (e.g., psychological stress, community violence), dietary, and physical (e.g., air pollution, allergens, chemicals) environmental factors explaining health disparities. The lab also examines underlying programming mechanisms including autonomic and neuroendocrine functioning, immune disruption, epigenetics and mitochondriomics.

Type of Research: Clinical/Translational

Publications:


The Jack and Lucy Department of Pediatrics
The Mindich Child Health and Development Institute
Icahn School of Medicine at Mount Sinai
Kravis Children’s Hospital

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