Edward Mallinckrodt
Department of Pediatrics

The primary aim of the teaching program of the Department of Pediatrics (http://pediatrics.wustl.edu) is to stimulate interest in developmental biology, especially human growth and development, and to provide students with a foundation sufficiently comprehensive so that they will have an appreciation of clinical pediatric problems regardless of their future career choices in medicine.

The major clinical and research facilities are in St. Louis Children's Hospital (http://slch.org), and the newborn services are at Barnes-Jewish Hospital. St. Louis Children's Hospital is a facility with 264 beds that accepts patients through 21 years of age with all types of medical and surgical problems. Hospital admissions average 11,200 annually. Pediatric medical ambulatory activity, including subspecialty and emergency visits, averages about 152,000 visits a year. Nearly 4,000 infants are born annually at the Washington University Medical Center.

Website: http://pediatrics.wustl.edu

Degrees & Requirements

While the Department of Pediatrics does not offer its own degree, some of the department's courses are open to students in the MD and MSTP (MD/PhD) programs. Further information about the MD and MSTP degrees can be found in the Degrees & Programs Offered (http://bulletin.wustl.edu/medicine/degrees) section of this Bulletin.

Research

Ana Maria Arbelaez, MD
Northwest Tower, 10th Floor
Phone: 314-286-1138
Clinical Research in Diabetes Mellitus. Clinical research studies on hypoglycemia associated autonomic failure in patients with type 1 diabetes mellitus and on cystic fibrosis related diabetes.

Charles E. Canter, MD
Northwest Tower, Division of Cardiology, 8th Floor
Phone: 314-454-6095
Single-center and multicenter clinical studies and trials in pediatric cardiomyopathy, heart failure, and heart transplantation.

F. Sessions Cole, MD and Jennifer Wambach, MD, MS
Northwest Tower, 8th Floor; and McDonnell Pediatric Research Building, 5th Floor
Phone: 314-454-6148
Using candidate gene sequencing, exome sequencing, whole genome sequencing, and computational prediction and filtering strategies for discovery of deleterious variants in population-based cohorts, case-control cohorts, and trios of affected infant and parents, our laboratory focuses on discovering novel candidate genes associated with neonatal respiratory distress syndrome and understanding the contribution of genetic variation in candidate genes of the pulmonary surfactant metabolic pathway (including surfactant protein B, surfactant protein C, NKX2-1, and ABCA3), to risk of neonatal respiratory distress syndrome.

Vikas Dharnidharka, MD, MPH
Northwest Tower, 10th Floor
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Clinical and translational research in childhood kidney disease. Our group is involved in several different types of clinical and translational research, including (a) multicenter clinical intervention trials to improve teen adherence with transplant medications and test new medications in children on dialysis; (b) translational biomarker studies in transplant acute and chronic rejection and genomic studies or post-transplant lymphoproliferative disease; (c) large transplant database epidemiological analyses for associations of immunosuppressive regimens with efficacy and morbidity balance.

Allan Doctor, MD
McDonnell Pediatric Research Building, 5th Floor
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Role of Erythrocytes in Pathologic Vascular Signaling. We employ several novel experimental platforms to pursue a range of basic, translational, and clinical studies exploring: (1) the role of erythrocytes in context-responsive metabolism of vasoactive effectors in flowing blood; (2) molecular control of antioxidant defense in erythrocytes; (3) the role of acquired injury to normal erythrocytes in the pathophysiology of acute lung injury and multiple organ failure syndrome; and (4) the impact of genetic abnormalities in erythrocytes upon antioxidant defense and vascular signaling (modeled by sickle cell anemia). Query is modeled on many levels from isolated proteins – cell culture – isolated organ – whole mouse – to studies in humans.

Todd Druley, MD, PhD
4444 Forest Park Avenue, Room 6203
Phone: 314-286-2124
Translational genomic research in pediatric oncology. The Druley lab aims to develop novel genomic and computational methodologies for characterizing the functional impact of rare acquired and germline variation on the etiology and outcomes of various pediatric malignancies.

Jennifer Duncan, MD
McDonnell Pediatric Research Building, 3rd Floor
Phone: 314-747-0802
Understanding the Transgenerational Impact of Maternal Nutrition. Our lab uses Drosophila melanogaster as a model system to evaluate the impact of maternal caloric excess on...
metabolism and mitochondrial function in offspring. We are currently pursuing epigenetic mechanisms, specifically the role of histone modification, for altering gene expression. In addition, we are evaluating the molecular mechanisms underlying triglyceride excess in the offspring and are evaluating tissue-specific mitochondrial function. This elective is for students interested in research in any of these areas.

Stephanie A. Fritz, MD, MSCI
Northwest Tower, Room 10125
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Our research team studies the epidemiology, microbial virulence mechanisms, and host defenses against community-associated methicillin-resistant Staphylococcus aureus (CA-MRSA) colonization, transmission and disease. We are investigating the transmission dynamics of CA-MRSA in households and interventions to interrupt the transmission of CA-MRSA and prevent subsequent infections. Our lab also explores the microbial and host genomic determinants, as well as the host immune response to staphylococcal toxins implicated in the pathogenesis of CA-MRSA, in patients across a spectrum of disease states. Our goal is to develop novel approaches for the prevention of CA-MRSA infections.

Carmen Halabi, MD, PhD
McDonnell Pediatric Research Building, 4th Floor, Room 4107
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Extracellular matrix in vascular development and disease: The research in the laboratory focuses on vascular biology. Specifically, we study extracellular matrix proteins that make up the elastic fibers of blood vessels. Elastic fibers convey elasticity to blood vessels allowing large arteries to store energy during systole and release it during diastole. Abnormalities in elastic fiber components lead to various complications including hypertension, stiff vessels, and aneurysms. In the laboratory, we utilize mouse models to understand how abnormalities in these proteins lead to disease, which helps us not only learn about the normal function of these proteins, but also identify potential novel therapeutic targets.

Robert J. Hayashi, MD
St. Louis Children's Hospital, Suite 9S
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Clinical research interests include stem cell transplantation and its complications, including Post Transplant Lymphoproliferative Disease and long-term side effects of therapy.

Keith A. Hruska, MD
McDonnell Pediatric Research Building, 5th Floor
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The research in the laboratory focuses on chronic kidney disease (CKD) and its complications of the chronic kidney disease mineral bone disorder syndrome that involves skeletal frailty, cardiovascular disease, and vascular calcification. The lab has discovered important new pathologic mechanisms of disease leading to vascular calcification through systemic effects of factors involved in renal repair and hyperphosphatemia.

Translational studies that continue to develop new therapeutic approaches are being aggressively pursued. New therapies for chronic kidney disease, and its complications, are being studied in clinical trials.

Paul Hruz, MD, PhD
McDonnell Pediatric Research Building, 3rd Floor
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Research interests include structure/function relationships in facilitative glucose transporters, congenital and acquired lipodystrophy syndromes, and insulin resistance associated with HIV protease inhibitor therapy.

David A. Hunstad, MD
McDonnell Pediatric Research Building, Room 6106
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Work in our lab focuses on the interactions of pathogenic bacteria with their hosts. We aim to elucidate the modulation of host immune responses by pathogens and to determine the mechanisms by which these bacteria present specific virulence factors on their surfaces. Currently, we use cultured bladder epithelial cell models and murine models of cystitis to investigate the ability of uropathogenic Escherichia coli to modulate host innate and adaptive immune responses. In addition, we are studying the molecular mechanisms by which selected outer membrane proteins contribute to the virulence of uropathogenic E. coli. Our primary goal is to discover novel targets for interventions that will prevent and better treat bacterial infections of the urinary tract. Along these lines, we are leveraging recent discoveries in UTI pathogenesis to design nanoparticle-based therapies for prevention of acute and recurrent UTI. We have also launched a new translational study of immune responses to UTI in male and female infants, paired with an innovative new mouse model of male UTI that permits first-ever studies of sex differences in these infections.

S. Celeste Morley, MD, PhD
McDonnell Pediatric Research Building, Room 6105
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Our laboratory investigates the molecular mechanisms underlying immune cell signaling and trafficking using mouse models. We hope to identify molecules critical for host defense against infectious organisms such as pneumococcus. Our focus is currently on an actin-binding protein called L-plastin, which is required for normal T and B cell motility.

Audrey R. Odom, MD, PhD
McDonnell Pediatric Research Building, Room 6108
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None of the children annually. My laboratory uses translational approaches to develop new methods to diagnose and treat malaria. Projects are available in several research areas, ranging from clinical studies to molecular parasitology approaches in the lab. We are eager to have students join either our team on campus, where we study parasite metabolism and evaluate new potential
therapies, or our team in the field in Malawi, where we are collecting samples for new malaria biomarkers.

Jose A. Pineda, MD
Northwest Tower, 10th Floor, Patient Oriented Research Unit
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Mechanisms of brain injury in children. Our clinical research efforts focus on investigating the mechanisms and potential new treatments for brain injury, including strategies for implementation of best clinical practices. We utilize high-resolution physiological monitoring, biochemical analysis of clinical samples, and innovative implementation science methodologies.

Alan L. Schwartz, PhD, MD
St. Louis Children's Hospital, Suite 3S36
Phone: 314-454-6005
Investigative efforts are aimed at understanding: (1) the biology of cell surface receptors, including biochemical and molecular dissection of the mechanisms responsible for receptor-mediated endocytosis of blood coagulation proteins; and (2) the regulation of intracellular protein turnover.

Shalini Shenoy, MD
St. Louis Children's Hospital, Suite 9S
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Investigation of novel reduced intensity transplant strategies for pediatric non-malignant disorders and the immunologic basis of graft versus host disease and graft rejection.

Gregory A. Storch, MD; Kristine Wylie, PhD; Todd Wylie, BS; Richard S. Buller, PhD
St. Louis Children's Hospital, Suite 2N52
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Infectious disease genomics. Our laboratory is interested in applying genomic analysis to a variety of problems in infectious diseases, mostly related to viral infections. Recent studies include use of next generation sequencing to define the human virome in immunocompromised children, improved methods for detecting viruses using next generation sequencing, use of next generation sequencing for clinical diagnosis, analysis of the human transcriptome response to acute infections, sequencing of the genome of enterovirus D68 and development of a rapid diagnostic test for that virus. Students would have the opportunity to learn genomic techniques, including informatics analysis.

Phillip I. Tarr, MD
McDonnell Pediatric Research Building, Room 6103
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Research in Pediatric Gastroenterology, Hepatology and Nutrition. Students have opportunities in broadly encompassing research projects. Investigators in the Division have funded and vibrant projects in liver disease (fatty liver disease, acute liver failure, biliary atresia, liver transplants, cystic fibrosis liver disease), inflammatory bowel diseases (Crohn's Disease and ulcerative colitis), infections of the gastrointestinal tract (diarrhea), acute liver failure, Hirschsprung Disease, diarrhea, gut microbiome, aflatoxin injury to the liver and stunting, health services research, necrotizing enterocolitis, antibiotic-resistant pathogens in the human gut, and quality improvement, particularly related to inflammatory bowel disease management. Short- and long-term projects can be arranged around these and other related efforts. The exact nature of the project depends on the time that the student can contribute to the effort, and the availability of any of the Division faculty, who all have established track records as mentors. Interested students should contact any of our faculty, or Dr. Tarr, to discuss the possibilities.
Visit our website for more information about our faculty (http://pediatrics.wustl.edu/directory) and their appointments.

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MD Case Western Reserve Univ 1983
BA Bates College 1976

Elliott H Farberman, MD
Assistant Professor of Clinical Pediatrics (primary appointment)
BA University of Rochester 1969
Richard A. Felkel Jr, MD  
Instructor in Clinical Pediatrics (primary appointment)  
MD Saint Louis University 1973  
BS Saint Louis University 1993  

Thomas W Ferkol, MD  
Professor of Pediatrics (primary appointment)  
Alexis Hartmann MD Professor of Pediatrics  
Professor of Cell Biology and Physiology  
BA Case Western Reserve Univ 1981  
MD Ohio State University 1985  

Isabel Fernandez-Holtzman  
Instructor in Clinical Pediatrics (primary appointment)  
MD Saint Louis University 1997  
BS Saint Louis University 1993  

Thomas W Ferkol, MD  
Professor of Pediatrics (primary appointment)  
Alexis Hartmann MD Professor of Pediatrics  
Professor of Cell Biology and Physiology  
BA Case Western Reserve Univ 1981  
MD Ohio State University 1985  

Isabel Fernandez-Holtzman  
Instructor in Clinical Pediatrics (primary appointment)  
MD Saint Louis University 1997  
BS Saint Louis University 1993  

Melanie Erin Fields, MD  
Assistant Professor of Pediatrics (primary appointment)  
BS Tulane University 2003  
MD Univ of Texas Med Sch Houston 2008  

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Associate Professor of Pediatrics (primary appointment)  
MD Mount Sinai School of Medicine 1992  

Gregory K Finn, MD  
Assistant Professor of Clinical Pediatrics (primary appointment)  
BA Hendrix College 1985  
MD Washington Univ in St. Louis 1992  

Emily Faith Fishman, MD  
Instructor in Pediatrics (primary appointment)  
BS Youngstown St University 2005  
MD Northeast Ohio Medical U 2009  

Douglas Stewart Fitzwater  
Assistant Professor of Pediatrics (Pending Executive Faculty Approval) (primary appointment)  

Rebecca Hope Foster  
Instructor in Clinical Pediatrics (primary appointment)  

Myro Frangos, MD  
Instructor in Clinical Pediatrics (primary appointment)  
BA Washington Univ in St. Louis 1981  
MD Saint Louis University 1985  

Sharon Glave Frazee  
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Anthony Raymond French, MS, MD, PHD  
Associate Professor of Pediatrics (primary appointment)  
Associate Professor of Biomedical Engineering  
Associate Professor of Pathology and Immunology  
MS University of Illinois 1993  
BS University of Minnesota 1989  
MD University of Illinois 1997  
PHD University of Illinois 1995  

Stuart Howard Friess, MD  
Associate Professor of Pediatrics (primary appointment)  

MD Mount Sinai School of Medicine 1999  
BS Brown University 1985  

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Associate Professor of Pediatrics (primary appointment)  
MD Medical College of Wisconsin 2001  
BS Univ of Wisconsin Milwaukee 1997  
MS Washington Univ in St. Louis 2008  

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Associate Professor of Clinical Pediatrics (primary appointment)  
BS Massachusetts College of Phar 1977  
MD Saint Louis University 1982  

Maria Virginia Ganninger  
Instructor in Clinical Pediatrics (primary appointment)  

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MD Harvard University 1972  
BS Mass Inst of Technology (MIT) 1968  

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Assistant Professor of Clinical Pediatrics (primary appointment)  

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MD University of MO St Louis 2002  
BS Truman State University 1998  

Karen J Garzia  
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Karen Marie Gauvain, MD  
Associate Professor of Pediatrics (primary appointment)  
BS University of MO St Louis 1989  
MD Saint Louis University 1998  

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Associate Professor of Pediatrics (primary appointment)  
MD Technion - Israel Inst. of Tec 1997  

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Professor of Clinical Pediatrics (primary appointment)  
BA Iowa State University 1957  
MD University of MO Columbia 1961  

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Instructor in Pediatrics (primary appointment)  
MD Saint Louis University 2007  

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BA University of MO Kansas City 1980  
MD University of MO Kansas City 1980  

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Assistant Professor of Genetics  
MS University of Toronto 1990
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MD University of Michigan 1981
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BA Univ of Wisconsin Madison 1972  
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Associate Professor of Genetics  
BS Stanford University 1987  
PHD Washington Univ in St. Louis 1995  
MD Washington Univ in St. Louis 1995

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MD University of CA San Francisco 2004  
BA University of CA Los Angeles 1995

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MD University of Missouri-Columbi 2007  
BS Southern Ill Univ Edwardsville 1995

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Associate Professor of Pediatrics (primary appointment)  
Associate Professor of Molecular Microbiology  
PHD Duke University 2002
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Mark C Johnson, MD
Professor of Pediatrics (primary appointment)
BA University of Rochester 1978
MD Johns Hopkins University 1982

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MD Case Western Reserve Univ 1982

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BA Oakwood College 1979
MD Loma Linda University 1984

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Instructor in Clinical Pediatrics (primary appointment)
MD Southern Illinois University 2002
BS Truman State University 1997

Larry A Jones, MD, MBA
Assistant Professor of Clinical Pediatrics (primary appointment)
MD Johns Hopkins University Medic 1976
BA Johns Hopkins University 1972
MBA Washington Univ in St. Louis 1999

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Instructor in Clinical Pediatrics (primary appointment)
MD Universidad Nacional de Cuba 1989

Katherine McMullin Jones, MD
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BA Amherst College 2001

Heather Robin Joyce, MD
Instructor in Clinical Pediatrics (primary appointment)
MD Universidad Nacional de Cuba 1989

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MD School Not Listed 1987

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MBBS Topiwala National Med College 2008

Thomas J Kasper
Instructor in Clinical Pediatrics (primary appointment)

Jenny E Kaufman, MD
Instructor in Clinical Pediatrics (primary appointment)
MD Washington Univ in St. Louis 2004
BS University of Michigan 1999

Robert S Kebler, MD
Instructor in Clinical Pediatrics (primary appointment)
BS Muhlenberg College 1980
MD Saint Louis University 1984

Robert V Kellow
Assistant Professor of Clinical Pediatrics (primary appointment)

Brian J Kelly, MD
Assistant Professor of Clinical Pediatrics (primary appointment)
BS School Not Listed 1964
MD School Not Listed 1972

James Scott Kemp, MD
Professor of Pediatrics (primary appointment)
BS Creighton University 1972
MD Creighton University 1976

Michele E Kemp, MD
Associate Professor of Clinical Pediatrics (primary appointment)
MD Washington Univ in St. Louis 1981
BA Washington Univ in St. Louis 1977

Robert M Kennedy, MD
Professor of Pediatrics (primary appointment)
BS Georgia Tech 1975
MD Medical College Georgia 1980

Kent Leon Killian, MD
Instructor in Clinical Pediatrics (primary appointment)
BA Saint Louis University 1986
MD Saint Louis University 1990

Ellen Eunhae Kim, MD
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BS Northwestern University 1996
MD Northwestern University 2000

Maleewan Kitcharoensakkul, MD
Assistant Professor of Pediatrics (primary appointment)
MD Mahidol University 2002

Shirley M Knight, MD
Professor of Clinical Pediatrics (primary appointment)
BA Dillard University 1976
MD Washington Univ in St. Louis 1980

Richard D Knight
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Joel S Koenig, MD
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MD Vanderbilt University 1982
BS Yale University 1978

Kenneth A Koerner, MD
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MD Washington Univ in St. Louis 1941
BA Washington Univ in St. Louis 1935

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MD University of Pittsburgh 1996
BS University of Pittsburgh 1991

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MD School Not Listed 1984
BS Marymount College 1980

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BS Westminster College 2002

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Assistant Professor of Pediatrics (primary appointment)
BS1 Washington Univ in St. Louis 2003
MD University of Illinois Chicago 2009
BS Washington Univ in St. Louis 2003

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PHD Washington Univ in St. Louis 2004
BA Washington Univ in St. Louis 1996
MD Washington Univ in St. Louis 2004

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Instructor in Clinical Pediatrics (primary appointment)

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MD Indiana University Bloomington 1978

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MD Yale University 1991
BA University of Missouri 1986

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BS University of Oxford 2007
BS University of Arizona 2008

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MD Saint Louis University 1991
BS Valparaiso University 1987

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BA Lawrence University 1989
MD School Not Listed 1993
B MUS Lawrence University 1989

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MD Baylor College of Medicine 2002
BS University of Texas Austin 1998

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BA Washington Univ in St. Louis 1964
MD University of Missouri 1968

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BA Brown University 1974

Caroline Kim Lee, MD
Associate Professor of Pediatrics (primary appointment)
BA Wellesley College 1995
MD University of Virginia 1999

Kathryn B Leonard, MD
Instructor in Pediatrics (primary appointment)
MD Saint Louis University 2010
BS Saint Louis University 2006

Kenneth C Levy, MD
Instructor in Clinical Pediatrics (primary appointment)
BA Emory University 1983
MD University of Chicago 1988

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Adjunct Instructor in Pediatrics (primary appointment)
MD Tel-Aviv University 2003
BS Rutgers University 2001

Christopher Bradley Lewis, MD
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MD University of Texas 2017

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BS University of CA Los Angeles 1999
MD Saint Louis University 2003

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Associate Professor of Pediatrics (primary appointment)
MD Jagiellonian University 1988

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Assistant Professor of Pediatrics (primary appointment)
MD University of Virginia 1998  
BS University of Virginia 1994

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Instructor in Clinical Pediatrics (primary appointment)
MD University of Missouri 1969  
BA Washington Univ in St. Louis 1965

Blake Allen Little, MD
Instructor in Clinical Pediatrics (primary appointment)
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PHD University of Pennsylvania 1977  
MD University of Miami 1984

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Associate Professor of Pediatrics (Pending Faculty Approval) (primary appointment)
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PHD University of Surrey 1999  
BS University of Liverpool 1994

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MD Washington Univ in St. Louis 2002

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Assistant Professor of Pediatrics (primary appointment)  
Assistant Professor of Genetics  
PHD Washington Univ in St. Louis 2005  
MD Washington Univ in St. Louis 2005  
BS Univ of Wisconsin Madison 1997

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Instructor in Pediatrics (primary appointment)
BS Government Medical College 2000  
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MS Creighton University 2012  
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BS Franklin & Marshall 2007  
MD McGill University 2011

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Professor of Cell Biology and Physiology  
MD Vanderbilt University 1986  
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BS Missouri Univ of Science & Tec 2004  
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MBA Univ of Massachusetts Amherst 2007

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Instructor in Clinical Pediatrics (primary appointment)
MBBS University of Lagos 1982

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MD University of MO Columbia 1998
BS University of MO Columbia 1994

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BS University of Puerto Rico 1981
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Alison H Oswald, UNKNOWN
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UNKNOWN University of Cape Town 1982

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Stephen C Pak, PHD
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BS University of Sydney 1990
BS University of Sydney 1990
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BA Brown University 1989

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MD Washington Univ in St. Louis 1993

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BS Colorado St University 2008

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BA Cornell College 1970

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MD Saint Louis University 1962

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MD Saint Louis University 1986
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DOST School Not Listed 1988

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MS University of California 1980

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PHD Albert Einstein College of Med 1994

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S

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BS Indiana University Bloomington 2010

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UNKNOWN University of Nairobi 1975

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BS University of Madras 1981
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BS College of William and Mary 2001  
MD Commonwealth College 2005

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MD Albert Einstein College of Med 1975  
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Andrew J White, MS, MD  
James P Keating Professor of Pediatrics (primary appointment)  
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BA Brandeis University 1986  
MS University of Chicago 1989  
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BS University of MO Columbia 2000  
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MD Washington Univ in St. Louis 1998  
BS Washington Univ in St. Louis 1993

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MPH Saint Louis University 2001  
MD Georgetown University 1994  
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Marcia Christine Willing, D SC, MS, MD  
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D SC George Washington University 1981  
BS Goucher College 1973  
MS University of Michigan 1976  
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BA Kalamazoo College 1980  
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BA University of Minnesota 1968  
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BS Rockhurst College 2009  
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BS University of Illinois 1973  
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PHD Saint Louis University 2009

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Christina Marie Yadao  
Instructor in Clinical Pediatrics (primary appointment)
M65 Peds 801 General Pediatric Sub-Internship - St Louis Children's Hospital
This is the general pediatric sub-internship. The student will be assigned patients on one of two inpatient pediatric floor teams. They will follow patients from initial evaluation and for continuing care until discharge. Students work directly under the supervision of the senior resident and manage their own patients without co-coverage by an intern. Teaching rounds are conducted by the faculty. The elective will provide experience in the management of many pediatric medical conditions (variable depending on floor) and will include the care of patients with various diseases including pulmonary, infectious diseases, gastrointestinal, renal, neurological, endocrine, and rheumatologic issues. Additionally, patients with failure to thrive, asthmatic exacerbations, poisonings, PICU transfers and undiagnosed conditions may be seen.

M65 Peds 808 Pediatric Asthma and Allergy
In a predominantly outpatient setting, students will evaluate patients with a wide variety of allergic and immunologic disorders including asthma, allergic rhinitis, anaphylaxis, food allergy, atopic dermatitis, urticaria, angioedema and primary immunodeficiency. Rotation goals include: (1) the extension of history-taking skills to include environmental exposures, (2) the recognition of physical findings suggestive of allergic disease, (3) understanding the indications and interpretation of diagnostic testing including skin testing and assessment of pulmonary function, and (4) application of appropriate therapeutic strategies to these disorders. Weekly didactic conferences and inpatient consultations provide additional educational opportunities to the student.

M65 Peds 809 Pediatric Pulmonary Sub-Internship
On the 7 East Respiratory Unit, the sub-intern is an active member of a multidisciplinary care team, consisting of attending pulmonologist or allergist, advanced practice nurses, second-year pediatric residents, unit nurses, and other care providers and takes responsibility for children with acute and chronic lung diseases admitted to the unit. The student will be co-managed with a senior pediatric resident, and the sub-intern will be directly supervised by the pediatric residents and attending physician in the daily care of patients. The rotation is structured to provide students with a primarily clinical experience to allow them to gain exposure to the breadth of lung diseases seen at St. Louis Children's Hospital. The volume of patients on the 7 East Respiratory Unit varies with the number of patients covered by the sub-intern at any time, and they will typically be responsible for the care of two to six patients at any given time. The student will be exposed to children with wide-ranging lung diseases and breathing disorders, such as asthma, cystic fibrosis, bronchopulmonary dysplasia, bronchiolitis, pneumonia, chronic respiratory insufficiency, and congenital lung anomalies during their clinical rotation. The student will also have the opportunity to participate in tests and procedures essential to the practice of pulmonary and allergy medicine, including pulmonary function studies, flexible fiberoptic bronchoscopy, and overnight polysomnography. Sub-interns do not have evening coverage responsibilities, and weekend responsibilities are limited to two days during the four-week block. They are strongly encouraged to attend departmental and divisional conferences.

M65 Peds 811 Pediatric Critical Care Medicine
This elective is designed to familiarize the student with the diagnosis and treatment of critical illness in infants and children.
To this end, each student is made responsible for a small number of assigned cases under the direct supervision of pediatric residents, pediatric critical care fellows, and faculty. The teaching activities emphasize the understanding of pathophysiological processes that lead to respiratory, circulatory, and central nervous system dysfunction and their therapy in the developing subject. Students are expected to participate in all the daily activities of the Pediatric Intensive Care Unit at St. Louis Children's Hospital and be on occasional call after hours.

**M65 Peds 813 Pediatric Cardiac Catheterization**

This elective focuses on the interpretation of hemodynamic and angiographic data acquired in the cardiac catheterization laboratory.

**M65 Peds 819 Pediatric Cardiology-Outpatient Service**

Valid start weeks for four-week blocks are: Weeks 1, 5, 9, 13, 17, 21, 25, 29, 33, 37 and 41. Students will be exposed to the wide spectrum of pediatric cardiology on an outpatient basis. In addition to general cardiology clinics, several subspecialty clinics are also available, including heart failure/transplant, electrophysiology/herited arrhythmias, pulmonary hypertension, William's syndrome, Down syndrome, and preventative cardiology clinic. Students will independently evaluate clinic patients referred for a variety of cardiac complaints, such as cardiac murmurs, chest pain, syncope, arrhythmia, as well a wide variety of congenital cardiac lesions, and report their findings to the attending. Cardiac auscultation skills will be enhanced through auscultation of cardiac patients in a clinic environment. Students will learn basics of ECG and echocardiogram interpretation by reviewing studies performed during clinic with the attending. Clinics are held at St. Louis Children's Hospital and the Children's Specialty Care Center in West County. Students also have the option to participate in outreach clinics that occur on a monthly basis (locations include Cape Girardeau, Poplar Bluff, Rolla, Bonne Terre, and Columbia). Depending on interest, students may spend additional time in the echocardiography laboratory for more in-depth exposure to echocardiography. Participation in weekly surgical conference and daily cardiology educational conferences is encouraged.

**M65 Peds 826 Genetics and Genomic Medicine**

Valid start weeks for four-week blocks are: Weeks 1, 5, 9, 13, 17, 21, 25, 29, 33, 37 and 41. The goal of this senior elective is to facilitate the acquisition of clinical skills and knowledge in genetics and genomic medicine. The student will actively participate in the diagnosis and management of pediatric and adult patients with genetic disease in both the ambulatory and inpatient settings. Emphasis will be placed on application of the science of genetics to the bedside and will include a broad exposure to patients with biochemical, metabolic, structural and complex genetic diseases. Students will have an opportunity to visit clinical laboratories involved with diagnosis of genetic disorders, including the cytogenetics, molecular genetics and biochemical genetics laboratories. Students will be expected to participate in the weekly clinical case conference.

**M65 Peds 827 Pediatric Hematology/Oncology Sub-Internship**

Valid start weeks for four-week blocks are: Weeks 1, 5, 9, 13, 17, 21, 25, 29, 33, 37 and 41. Students will assume the responsibilities of a pediatric resident on the inpatient Hematology/Oncology service at St. Louis Children's Hospital.

Credit 154 units.

**M65 Peds 836 Pediatric Rheumatology**

Valid start weeks for four-week blocks are: Weeks 1, 5, 9, 13, 17, 21, 25, 29, 33, 37 and 41. Opportunities are available to care for children with a variety of immunologic and rheumatologic disorders. Students will see patients in outpatient clinics and inpatient consultations. An in-depth approach to evaluating disorders of the immunologic system will be provided. Students will participate in evaluation of new patients with a variety of rheumatologic diseases including JRA, SLE, and scleroderma at both SLCH and Shriners Hospital clinics. Students may elect to participate in conferences and seminars.

**M65 Peds 838 Pediatric Gastroenterology, Hepatology & Nutrition**

Valid start weeks for four-week blocks are: Weeks 1, 5, 9, 13, 17, 21, 25, 29, 33, 37 and 41. The rotation in Pediatric Gastroenterology, Hepatology, and Nutrition provides broad exposure to specialized and common pediatric problems. Gastroenterology patients are seen in the outpatient suites and in the hospital. Students see outpatients with common pediatric complaints like abdominal pain, constipation, and poor growth. Additionally, students experience the ongoing outpatient care of patients with liver disease, inflammatory bowel disease, short-gut syndrome, celiac disease, and other rare disorders. The inpatient service provides experience in caring for patients with acute illnesses such as gastrointestinal bleeding, malnutrition, liver failure, complications of inflammatory bowel disease, and pancreatitis. Students participate in diagnostic and therapeutic endoscopic procedures. At weekly divisional conferences, attendings, fellows and students review pathology slides from current cases and discuss difficult patient problems and topics of interest.

**M65 Peds 839 Antimicrobial Use, Resistance, and Stewardship**

In 2013 the CDC estimated that 23,000 Americans die annually from antibiotic-resistant infections, and an additional 2 million are infected with one of these difficult-to-treat pathogens. The primary driver of this resistance is the use — and, more importantly, the misuse — of antibiotics. In 2015, the White House published the National Action Plan for Combating Antibiotic Resistance Bacteria. This plan calls for improvement in antimicrobial use in human and agriculture medicine, better diagnostics, increased collaboration domestically and internationally, and accelerated development of new antibiotic agents. This fourth-year elective rotation will be focused on educating the student on the current state of domestic and global antibiotic resistance and the mechanisms by which health care systems are addressing this problem. The student will participate in the daily antimicrobial stewardship activities conducted at St. Louis Children's Hospital, attend weekly stewardship and clinical infectious diseases meetings both at the hospital and BJC system level, review antimicrobial use data, and participate in hands-on activities in the microbiology laboratory. At the end of this rotation, the student will be able to: 1. List the antimicrobials and the pathogens they effectively treat. 2. Analyze bacteria for genotypic and phenotypic resistance through standard and rapid microbiologic techniques. 3. Describe the antimicrobial stewardship interventions that can be implemented in the different health care settings. 4. List the social determinants that impact antimicrobial stewardship programs. 5. Explain how the microbiome and resistome are important in our efforts to improve antimicrobial use.
M65 Peds 840 Pediatric Infectious Diseases
Valid start weeks for four-week blocks are: Weeks 1, 5, 9, 13, 17, 21, 25, 29, 33, 37 and 41. This elective is designed to introduce students to the clinical aspects of infectious diseases in children. Students will consult on both inpatients and outpatients. Regular daily activities will include evaluation of new patients, work rounds on inpatient consults, microbiology teaching rounds in the bacteriology and virology labs, and teaching rounds with the infectious diseases attending. Formal teaching sessions include a weekly pediatric infectious disease case conference, a weekly joint clinical conference with the adult infectious diseases group, a weekly pediatric infectious diseases research conference, and a monthly journal club.

M65 Peds 845 Pediatric Emergency Medicine
Valid start weeks for four-week blocks are: Weeks 1, 5, 9, 13, 17, 21, 25, 29, 33, 37 and 41. The goal of this elective is to provide the senior medical student with a broad introductory clinical experience in pediatric emergency medicine. Functioning as a sub-intern in the Emergency Unit of St. Louis Children’s Hospital, the student will have the opportunity to evaluate and manage patients with a wide variety of emergent and urgent medical and surgical problems. Examples include: respiratory distress, abdominal pain, lacerations, bone injuries, rashes, fever, etc. Students will work either a day shift (7:30 a.m.-3:00 p.m.) or an evening shift (3:00 p.m.-11:00 p.m.) in rotation. Daily teaching conferences are provided by the attending staff. A weekly meeting of the students and senior faculty will occur to review interesting cases. Also, attending staff and senior pediatric residents provide 24-hour on-site supervision. Each medical student will be asked to prepare a 20-minute presentation on a topic of their choosing.

M65 Peds 849 Pediatric Endocrinology and Diabetes
Valid start weeks for four-week blocks are: Weeks 1, 5, 9, 13, 17, 21, 25, 29, 33, 37 and 41. This elective is designed to include broad clinical experience in pediatric endocrinology and diabetes. The student will have an opportunity to evaluate both patients admitted to St. Louis Children's Hospital and patients referred for consultation in our three outpatient clinics each week. In addition to a divisional conference to review referred patients, several joint conferences with the adult Endocrinology and Diabetes Division (clinical rounds, journal club/research seminar, case conference) are held weekly.

M65 Peds 852 Clinical Pediatric Pulmonary Medicine
Valid start weeks for four-week blocks are: Weeks 1, 5, 9, 13, 17, 21, 25, 29, 33, 37 and 41. This elective provides an opportunity for students to be exposed to the full scope of respiratory diseases in infants and children. Pediatric referrals will be seen in both an inpatient and outpatient setting. Goals include: (1) to learn the importance of the physical exam using inspection, percussion and auscultation; (2) indications and interpretation of diagnostic tests, such as CXR, chest CT, V/Q scan, pulmonary function and bronchoscopy with biopsy and lavage; (3) therapeutic interventions and the use of bronchodilators, anti-inflammatory agents, et. al. Unique aspects of this rotation include a broad exposure to children with congenital lung defects, life-threatening asthma, cystic fibrosis, and end-stage cardiopulmonary diseases referred for transplantation. Weekly didactic sessions as well as weekly divisional patient care sections are an opportunity to further learn and practice presentational skills.

M65 Peds 861 Newborn Medicine
Valid start weeks for four-week blocks are: Weeks 1, 5, 9, 13, 17, 21, 25, 29, 33, 37 and 41. This elective is designed to provide the student with a wide exposure to all aspects of pediatric renal disease and an opportunity to explore a desired aspect of the field in-depth. The student will be an integral part of the Renal Team and as such will see both inpatients and outpatients. Students will have an opportunity to follow the courses of patients with acute renal disease as well as those with more chronic problems and will help to plan the evaluation and therapeutic management of these patients. Discussions and rounds with the attending staff and fellows emphasize the relationship between clinical problems and the pathophysiology of the underlying disease. These informal teaching sessions are supplemented by more formal sessions. These include renal attending rounds, renal research rounds and grand rounds, which are conducted weekly in conjunction with the Renal Division of Barnes-Jewish Hospital. Renal biopsy material is reviewed with the renal pathologists. Attendance at the weekly pediatric grand rounds and pediatric case conferences is encouraged. Opportunities in clinical and translational research projects will be discussed with interested students.

M65 Peds 876 Pediatric Lung Transplantation
Valid start weeks for four-week blocks are: Weeks 1, 5, 9, 13, 17, 21, 25, 29, 33, 37 and 41. St. Louis Children's Hospital has the largest pediatric lung transplant program in North America. This unique clinical rotation will enable students to be exposed to the process of transplantation from referral and listing to the actual surgery and postoperative care. Both inpatient and twice-weekly outpatient clinics will be available for participation and learning. The use of diagnostic tests, such as flexible fiberoptic bronchoscopy with biopsies, the histopathology of infection and graft rejection, and the complexities of immunosuppression will all be explored. Weekly transplant meetings with our multidisciplinary team, as well as didactic/psychosocial and ethical and divisional care meetings will all be available. Our patient referral base is worldwide, and the primary cardiopulmonary disease states include: cystic fibrosis, pulmonary hypertension, complex congenital heart defects, and alveolar proteinosis.
M65 Peds 878 Clerkship In Rural Primary Care Pediatrics
Valid start weeks for two-week blocks are: Weeks 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 37, 39, 41 and 43. Valid start weeks for four-week blocks are: Weeks 1, 5, 9, 13, 17, 21, 25, 29, 33, 37 and 41. The clerkship in rural primary care pediatrics is designed to provide the student with first-hand experience in general pediatric practice in a rural community setting. Students will have the opportunity to see patients in a private office, participate in delivery room resuscitation, evaluate patients in the emergency department, and provide pediatric consultation to family practitioners, obstetricians and surgeons. The objective of this elective is to provide the student with the experience of serving as a general pediatrician providing comprehensive health services in a rural community. Students assume responsibility for ongoing care of patients and have opportunities to perform procedures. Two-week or four-week blocks are available. Credit 154 units.

M65 Peds 900 Research Elective-Pediatrics
Research opportunities may be available. If interested, please contact the Department of Pediatrics.