The primary aim of the teaching program of the Department of Pediatrics (http://pediatrics.wustl.edu/) is to stimulate interest in developmental biology — in particular, human growth and development — to provide students with a foundation sufficiently comprehensive to 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://www.stlouischildrens.org/), and the newborn services are at the Women & Infants Center (http://www.stlouischildrens.org/women-and-infants/). St. Louis Children’s Hospital is a facility with 300 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 per year. Nearly 4,000 infants are born annually at the Washington University Medical Center.

Website: http://pediatrics.wustl.edu

Faculty

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Visit our website for more information about our faculty (http://pediatrics.wustl.edu/directory/) and their appointments.

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<thead>
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<th>Title</th>
<th>Educational Background</th>
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<tr>
<td>Christina Fahey, M.D.</td>
<td>Instructor in Pediatrics (Pending Dean’s Approval) (primary appointment)</td>
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<td></td>
<td>Doctor of Medicine, University of Kentucky, 2019</td>
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<tr>
<td>Korre Leigh Fairman, D.O.</td>
<td>Instructor in Pediatrics (Pending Dean’s Approval) (primary appointment)</td>
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<td></td>
<td>Doctor of Osteopathic Medicine, Lake Erie College of Osteopathic Medicine, 2015</td>
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<tr>
<td>Alexandra Gybbon Fallon</td>
<td>Assistant Professor of Pediatrics (Pending Executive Faculty Approval) (primary appointment)</td>
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<tr>
<td>Elliott H Farberman, M.D.</td>
<td>Assistant Professor of Clinical Pediatrics</td>
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<td></td>
<td>Bachelor of Arts, University of Rochester, 1969 Doctor of Medicine, Saint Louis University, 1973</td>
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<tr>
<td>Marjorie Ann Farrington, M.D.</td>
<td>Instructor in Pediatrics (Pending Dean’s Approval) (primary appointment)</td>
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<td></td>
<td>Doctor of Medicine, University of Missouri Kansas City, 2019</td>
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<tr>
<td>Yuri Fedorovich, M.D.</td>
<td>Instructor in Pediatrics (Pending Dean’s Approval) (primary appointment)</td>
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<td>SOM, 2018</td>
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<tr>
<td>Richard A. Felkel, M.D.</td>
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<td></td>
<td>Bachelor of Science, Saint Louis University, 1993 Doctor of Medicine, Saint Louis University, 1997</td>
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<tr>
<td>Isabel Fernandez-Holtzman, M.D.</td>
<td>Assistant Professor of Clinical Pediatrics</td>
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<td></td>
<td>Doctor of Medicine, Michigan State University, 2019</td>
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<tr>
<td>Margaret Ashley Ferris, M.D.</td>
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<td>Bachelor of Science, Carnegie Mellon University, 2005 Doctor of Medicine, Washington University in St Louis, 2013</td>
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<tr>
<td>Melanie Erin Fields, M.D.</td>
<td>Associate Professor of Pediatrics (primary appointment)</td>
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<td>Associate Professor of Neurology</td>
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<td>Bachelor of Science, Tulane University, 2003 Doctor of Medicine, University of Texas Medical School Houston, 2008</td>
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<tr>
<td>Mayte Ideliz Figueroa, M.D.</td>
<td>Associate Professor of Pediatrics (primary appointment)</td>
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<td>Doctor of Medicine, Mount Sinai School of Medicine, 1992</td>
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<tr>
<td>Gregory K Finn, M.D.</td>
<td>Assistant Professor of Clinical Pediatrics</td>
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<tr>
<td>Joseph D Finney</td>
<td>Assistant Professor of Pediatrics (Pending Executive Faculty Approval) (primary appointment)</td>
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<td></td>
<td>Bachelor of Arts, Washington University in St Louis, 2007</td>
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<tr>
<td>Emily Faith Rood Fishman, M.D.</td>
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<td>Jennifer Foersterling, M.D.</td>
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<td>Doctor of Medicine, Saint Louis University, 1997</td>
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<td>Leslie A. Fogel, Ph.D., M.D.</td>
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<td>Bachelor of Science, Rice University, 2007 Doctor of Philosophy, Washington University in St Louis, 2016 Doctor of Medicine, Washington University in St Louis, 2016</td>
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<tr>
<td>Rebecca Hope Foster</td>
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<td>Mary E Fournier, M.P.H., M.D.</td>
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Doctor of Medicine, Saint Louis University, 1991

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Doctor of Medicine, University of Rochester, 1999
Master of Public Health, University of Pittsburgh, 2006

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Doctor of Medicine, University of Pittsburgh, 2014
Health System, null

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Doctor of Medicine, University of Missouri Kansas City, 2015

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Doctor of Medicine, University of Puerto Rico, 2017

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Bachelor of Science, University of North Carolina at Chapel Hill, 1996
Doctor of Medicine, University of Florida, 2001

**Christina Kim Ahn Hickey, M.S., M.D.**
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Master of Science, Washington University in St Louis, 2009
Doctor of Medicine, Washington University in St Louis, 2009

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Doctor of Medicine, Lewis Katz School of Medicine at Temple University, 2016

**Tunde Hidvegi, M.S., Ph.D.**
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Master of Science, Eotvos Lorand University (University of Budapest), 1980
Doctor of Philosophy, Eotvos Lorand University (University of Budapest), 1988

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**Stanley P Hmiel, M.Phil., Ph.D., M.D.**
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Bachelor of Science, Case Western Reserve University, 1980
Master of Philosophy, University of Cambridge, 1981
Doctor of Philosophy, University of Pennsylvania, 1987
Doctor of Medicine, Case Western Reserve University, 1989

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Bachelor of Science, San Jose State University, 2009
Doctor of Philosophy, University of Alabama in Tuscaloosa, 2015
Sandra Jean Hodel  
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Dee Hodge, M.D.  
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Bachelor of Arts, Occidental College, 1974  
Doctor of Medicine, University of California San Francisco, 1978

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Bachelor of Science, University of Missouri in St Louis, 2001  
Master of Science, University of Missouri in St Louis, 2004  
Doctor of Medicine, Southern Illinois University Carbondale, 2012

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Bachelor of Science, University of California, 1973  
Master of Arts, Harvard University, 1974  
Doctor of Philosophy, Harvard University, 1979  
Doctor of Medicine, Washington University in St Louis, 1994

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Doctor of Philosophy, University of Florida, 1995

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Assistant Professor of Biology (Courtesy Affiliation)  
Bachelor of Arts, Loyola University Chicago, 2001  
Doctor of Medicine, Loyola University Chicago, 2014

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Bachelor of Arts, Dartmouth College, 1982  
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Bachelor of Arts, Cornell University, 1982  
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Bachelor of Arts, University of Kansas, 1972  
Doctor of Medicine, University of Missouri Columbia, 1976

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Bachelor of Science, Tulane University, 1999  
Main Campus, 2003  
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Amjad Horani, M.D.  
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Doctor of Medicine, Hebrew University of Jerusalem, 2004  
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Bachelor of Science, Washington University in St Louis, 2014  
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Bachelor of Arts, Oakwood University, 1979
Doctor of Medicine, Loma Linda University, 1984

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Doctor of Medicine, Johns Hopkins University, 1982

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Doctor of Medicine, University of Missouri Columbia, 1981

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Doctor of Medicine, Universidad Nacional de Columbia, 1989

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Doctor of Medicine, Johns Hopkins University Medical (Duplicate of Johns Hopkins University), 1976
Master of Business Administration, Washington University in St Louis, 1999

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Doctor of Medicine, School Not Found, 1987

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Doctor of Medicine, Louisiana State University Health Sciences (Duplicate of Louisiana State University Health Sciences Center at New Orleans), 1945

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Main Campus, 2008
Main Campus, 2012

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Foreign MD equivalent, University of Mumbai, 2003
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Bachelor of Science, Northwestern University, 2006
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Main Campus, 2015
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Bachelor of Arts, Brown University, 1974
Doctor of Medicine, Saint Louis University, 1978

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Professor of Pediatrics (primary appointment)
Bachelor of Arts, Wellesley College, 1995
Doctor of Medicine, University of Virginia, 1999

Caroline Martz Lee, Ph.D., M.D.
Assistant Professor of Pediatrics (primary appointment)
Bachelor of Arts, Knox College, 2003
Doctor of Philosophy, University of North Carolina at Chapel Hill, 2009
Doctor of Medicine, University of North Carolina at Chapel Hill, 2011

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Bachelor of Science, Saint Louis University, 2006
Doctor of Medicine, Saint Louis University, 2010

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Assistant Professor of Pediatrics (primary appointment)
Assistant Professor of Orthopedic Surgery
Doctor of Medicine, Albany Medical College, 2014

Kenneth C Levy, M.D.
Instructor in Clinical Pediatrics
Bachelor of Arts, Emory University, 1983
Doctor of Medicine, University of Chicago, 1988

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Adjunct Instructor in Pediatrics
New Brunswick), 2001
Aviv University (Duplicate of Tel Aviv University), 2003

Christopher Bradley Lewis, M.D.
Assistant Professor of Pediatrics (primary appointment)
Doctor of Medicine, University of Texas, 2010

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Assistant Professor of Pediatrics (primary appointment)
Bachelor of Science, Yantai University, 2003
Doctor of Philosophy, Peking University (###), 2008

Steve Ming-Che Liao, M.D.
Associate Professor of Pediatrics (primary appointment)
Bachelor of Science, University of California Los Angeles, 1999
Doctor of Medicine, Saint Louis University, 2003

Anna Lijowska, M.D.
Associate Professor of Pediatrics (primary appointment)
Doctor of Medicine, Jagiellonian University, 1988

John Chao-Chun Lin, M.D.
Associate Professor of Pediatrics (primary appointment)
Bachelor of Arts, University of Virginia, 1994
Doctor of Medicine, University of Virginia, 1998

Kim Hung Ho Liss, M.D.
Instructor in Pediatrics (primary appointment)
Bachelor of Science, Northwestern University, 2007
Doctor of Medicine, Northwestern University, 2011

David Liu, M.D.
Instructor in Pediatrics (primary appointment)
Doctor of Medicine, Saint Louis University, 2007

Maurice J Lonsway, M.D.
Professor Emeritus of Clinical Pediatrics
Bachelor of Arts, Washington University in St Louis, 1946
Doctor of Medicine, Washington University in St Louis, 1950

Alina M. Lopez, M.D.
Assistant Professor of Pediatrics (primary appointment)
Bachelor of Arts, Washington University in St Louis, 2006
Doctor of Medicine, University of Miami, 2010

**Stephanie Nicole Lorts, M.D.**

Assistant Professor of Clinical Pediatrics
Champaign), 2011
Doctor of Medicine, Southern Illinois University (Duplicate of Southern Illinois University Carbondale), 2015

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Professor of Pediatrics (primary appointment)
Interim Associate Dean for Research
Harvey R Colten Professor of Pediatric Science
Vice Chancellor
Bachelor of Arts, Washington University in St Louis, 1973
Doctor of Philosophy, University of Pennsylvania, 1977
Doctor of Medicine, University of Miami, 1984

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**Clifford James Luke, Ph.D.**

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Bachelor of Science, University of Liverpool, 1994
Doctor of Philosophy, University of Surrey, 1999

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Assistant Professor of Clinical Pediatrics
Bachelor of Science, Virginia Tech (Duplicate of Virginia Polytechnic Institute and State University), 2007
Doctor of Medicine, Eastern Virginia Medical School, 2016

**John C. Madden, M.D.**

Assistant Professor of Clinical Pediatrics
Bachelor of Science, Yale University, 1994
Doctor of Medicine, Washington University in St Louis, 2002

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Professor of Pediatrics (primary appointment)
Professor of Genetics
Bachelor of Science, University of Wisconsin Madison, 1997
Doctor of Medicine, Washington University in St Louis, 2005
Doctor of Medicine, Washington University in St Louis, 2005

**Jay Randolph Malone, M.S., Ph.D., M.D.**

Assistant Professor of Pediatrics (primary appointment)
Bachelor of Science, University of Oklahoma, 2005
Doctor of Medicine, University of Oklahoma, 2009
Master of Science, Creighton University, 2012
Doctor of Philosophy, Saint Louis University, 2019

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Instructor in Pediatrics (Pending Dean’s Approval) (primary appointment)
Bachelor of Science, Carleton College, 2009
Doctor of Medicine, University of Queensland, 2015

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Professor of Pediatrics (primary appointment)

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Bachelor of Science, Massachusetts Institute of Technology, 1977
Doctor of Medicine, Washington University in St Louis, 1982

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Bachelor of Science, Franklin and Marshall College, 2007
Doctor of Medicine, McGill University, 2011

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Professor of Pediatrics (primary appointment)
Foreign MD equivalent, Jordan University of Science & Technology, 1993

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Assistant Professor of Clinical Pediatrics
Associate Professor of Clinical Neurology
Bachelor of Arts, University of Evansville, 1971
Doctor of Medicine, University of Missouri Columbia, 1974

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Professor of Pediatrics (primary appointment)
Professor of Cell Biology and Physiology
Bachelor of Science, Vanderbilt University, 1982
Doctor of Medicine, Vanderbilt University, 1986

**Megan Spokes Martin, M.D.**

Assistant Professor of Pediatrics (primary appointment)
Bachelor of Arts, University of Notre Dame, 2007
Doctor of Medicine, University of Kansas, 2012

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Bachelor of Science, Missouri University of Science and Technology (Formerly University of Missouri at Rolla), 2004
Doctor of Osteopathic Medicine, A T Still University of Health Sciences, 2009

**Patrice Mathews, M.D.**

Instructor in Clinical Pediatrics
Bachelor of Arts, Trinity University, 1984
Doctor of Medicine, University of Oklahoma, 1988

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Assistant Professor of Pediatrics (primary appointment)
Doctor of Medicine, Gomel State Medical University, 2003

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Assistant Professor of Clinical Pediatrics
Bachelor of Arts, Washington University in St Louis, 1968
Doctor of Medicine, Washington University in St Louis, 1972

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Assistant Professor of Pediatrics (Pending Executive Faculty Approval) (primary appointment)
Bachelor of Science, University of Miami, 2003
Doctor of Philosophy, Saint Louis University, 2009
Doctor of Medicine, Saint Louis University, 2011
null, Stanford University, null

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Associate Professor of Clinical Pediatrics
Bachelor of Arts, Tufts University, 1983
Master of Public Health, Boston University, 1992
Doctor of Medicine, School Not Found, 1993

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Jina L McAtee
Assistant Professor of Clinical Pediatrics

Megan McBride
Instructor in Clinical Pediatrics

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Instructor in Pediatrics (Pending Dean Approval) (primary appointment)
Doctor of Medicine, University of Arkansas for Medical Sciences, 2019

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Associate Professor of Clinical Pediatrics

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Assistant Professor of Clinical Pediatrics
Bachelor of Science, Marquette University, 1993
Doctor of Medicine, Saint Louis University, 1997

Thomas Casey McKinney, M.D.
Professor of Clinical Pediatrics
Bachelor of Arts, Illinois Wesleyan University, 1976
Doctor of Medicine, Washington University in St Louis, 1980

William A McManus, M.D.
Assistant Professor of Pediatrics (primary appointment)
Bachelor of Arts, Carroll College, 1980
Doctor of Medicine, Saint Louis University, 1986

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Assistant Professor of Pediatrics (primary appointment)
Bachelor of Science, University of Chicago, 2010
Doctor of Medicine, Case Western Reserve University, 2014

Christopher Clayton McPherson
Associate Professor of Clinical Pediatrics

Shilpa Menolascino, M.D.
Instructor in Clinical Pediatrics
Bachelor of Science, University of Missouri Columbia, 2019

Sarah J. Mermelstein, M.D.
Associate Professor of Pediatrics (primary appointment)
Bachelor of Arts, Indiana University Bloomington, 2002
Doctor of Medicine, Drexel University, 2007

Elizabeth Sarah Messer, M.D.
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Bachelor of Science, Washington University in St Louis, 2009
Doctor of Medicine, University of Illinois at Chicago, 2013

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Bachelor of Arts, Saint Louis University, 1999
Doctor of Medicine, Saint Louis University, 2003

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Bachelor of Science, Valparaiso University, 2001
Doctor of Medicine, University of Illinois at Chicago, 2005

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Instructor in Clinical Pediatrics
Bachelor of Science, Boston College, 1978
Doctor of Medicine, University of Miami, 1982

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Instructor in Pediatrics (primary appointment)
Master of Science in Nursing, Vanderbilt University, 2009
Doctor of Philosophy, University of Missouri Columbia, 2017

Deepa Mokshagundam, M.D.
Assistant Professor of Pediatrics (primary appointment)
Bachelor of Science, Massachusetts Institute of Technology, 2009
Doctor of Medicine, University of Louisville, 2013

Christopher Molitor
Instructor in Clinical Pediatrics

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Assistant Professor in Pediatrics
Bachelor of Science, University of Missouri Columbia, 1997
Doctor of Medicine, University of Missouri Columbia, 2001

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Bachelor of Science, Eastern Illinois University, 1974
Champaign, 1978

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Champaign, 2010
Doctor of Medicine, University of Illinois at Chicago, 2014

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Instructor in Clinical Pediatrics
Bachelor of Arts, Saint Louis University, 1989
Doctor of Medicine, University of Missouri Columbia, 1993

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Associate Professor of Pathology and Immunology
Doctor of Philosophy, Harvard University, 2002
Doctor of Medicine, Harvard University, 2002

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Co-Division Chief - Division of Hospitalist Medicine
Bachelor of Science, University of Wisconsin Madison, 1989
Doctor of Philosophy, Washington University in St Louis, 1998
Doctor of Medicine, Washington University in St Louis, 1998

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Bachelor of Arts, Kansas State University, 1985
Margaret M Mueller
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Bachelor of Science, Mumbai University, 2002
Master of Science, University of Mumbai, 2004
Doctor of Philosophy, National Brain Research Centre, 2011

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Bachelor of Science, Washington University in St Louis, 2005
Doctor of Medicine, Case Western Reserve University, 2010

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Instructor in Pediatrics (Pending Dean’s Approval) (primary appointment)
Doctor of Philosophy, Washington University in St Louis, 2015

Maria Ganninger Mura, M.D.
Assistant Professor of Clinical Pediatrics
Doctor of Medicine, University of Missouri Kansas City, 2000

Mark C. Murawski, M.D.
Instructor in Clinical Pediatrics
Bachelor of Science, Villanova University, 1995
Doctor of Medicine, Saint Louis University, 1999

Kevin J Murphy, M.D.
Professor of Clinical Pediatrics
Bachelor of Science, Birmingham Southern College, 1974
Doctor of Medicine, Saint Louis University, 1978

Gian Marco Musarra, M.D.
Assistant Professor of Pediatrics (primary appointment)
Bachelor of Science, University of Central Florida, 1998
Doctor of Medicine, University of Miami, 2003

John A Myers, M.D.
Assistant Professor of Clinical Pediatrics
Bachelor of Arts, Washington University in St Louis, 1993

Stephen Jeffrey Nageotte, M.D.
Assistant Professor of Pediatrics (primary appointment)
Doctor of Medicine, University of California Irvine, 2012

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Instructor in Clinical Pediatrics

Tasnim A Najaf, M.D.
Professor of Pediatrics (primary appointment)
Doctor of Medicine, Dow Medical College Karachi, 1991

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Professor of Clinical Pediatrics

Ameera Farhat Nauman
Assistant Professor of Clinical Pediatrics

Lynn G Nelms
Instructor in Clinical Pediatrics

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Bachelor of Arts, Duke University, 1999
Doctor of Medicine, University South Dakota Vermillion, 2003

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Professor of Pediatrics (primary appointment)
Vice Chair of Community Health and Strategic Planning
Schnuck Family Endowed Chair in Pediatric Infectious Diseases SLCH
Doctor of Medicine, University of Oklahoma, 2000
Main Campus, 2011

Hoanh Thi Nguyen, M.D.
Assistant Professor of Pediatrics (primary appointment)
Doctor of Medicine, Tulane University, 2003

Suong Thu Nguyen, Ph.D., M.D.
Instructor in Pediatrics (Pending Dean’s Approval) (primary appointment)
Bachelor of Science, University of Tulsa, 2006
Doctor of Philosophy, University of Texas Southwest, 2016
Doctor of Medicine, University of Texas Southwest, 2016

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Instructor in Clinical Pediatrics

Ramzi T Nicolas
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David Craig Norman, M.D.
Assistant Professor of Clinical Pediatrics
Champaign), 1988
Doctor of Medicine, School Not Found, 1992

Karen K Norton, M.D.
Associate Professor of Clinical Pediatrics
Bachelor of Science, Loyola University (Duplicate of Loyola University New Orleans), 1985
Doctor of Medicine, Louisiana State University, 1989

Douglas Susumu Nozaki, M.D.
Instructor in Clinical Pediatrics

Kevin Sullivan O’Bryan, M.D.
Assistant Professor of Pediatrics (primary appointment)
Doctor of Medicine, University of Michigan Ann Arbor, 2010

Shawn David O’Connor, M.D.
Assistant Professor of Pediatrics (primary appointment)
Bachelor of Science, University of Georgia, 2006
Sarah Grace O’Grady  
Instructor in Clinical Pediatrics

Jerome H O’Neil, M.B.A., M.D.  
Assistant Professor of Clinical Pediatrics  
Bachelor of Arts, University of Missouri Columbia, 1977  
Doctor of Medicine, Saint Louis University, 1981  
Master of Business Administration, University of Massachusetts Amherst, 2007

Justin O Ogbevoen, MBBS  
Instructor in Pediatrics (primary appointment)  
Foreign MD equivalent, University of Lagos, 1982

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Instructor in Pediatrics (primary appointment)  
Bachelor of Science, Georgetown University, 2010  
Doctor of Medicine, University of Missouri Columbia, 2015

Andrea Cohron Orr, M.D.  
Assistant Professor of Clinical Pediatrics  
Bachelor of Science, University of Georgia, 2007  
Doctor of Medicine, Medical College of Georgia, 2013

William B Orr, M.D.  
Assistant Professor of Pediatrics (primary appointment)  
Bachelor of Science, University of Georgia, 2009  
Doctor of Medicine, Medical College of Georgia, 2013

Rachel C. Orscheln, M.D.  
Associate Professor of Pediatrics (primary appointment)  
Bachelor of Science, University of Missouri Columbia, 1994  
Doctor of Medicine, University of Missouri Columbia, 1998

Cynthia M. Ortinau, M.D.  
Assistant Professor of Pediatrics (primary appointment)  
Doctor of Medicine, University of Missouri Kansas City, 2005

Irma I Ortiz-Arroyo, M.D.  
Assistant Professor of Clinical Pediatrics  
Bachelor of Science, University of Puerto Rico (Duplicate of University of Puerto Rico), 1981  
Doctor of Medicine, University of Puerto Rico (Duplicate of University of Puerto Rico), 1985

Anthony Walter Orvedahl, Ph.D., M.D.  
Assistant Professor of Pediatrics (primary appointment)  
Assistant Professor of Pathology and Immunology  
Doctor of Philosophy, University of Texas Southwestern Medical Center at Dallas, 2012  
Doctor of Medicine, University of Texas Southwestern Medical Center at Dallas, 2012

Austin James Ostermeier, M.S., M.D.  
Instructor in Pediatrics (primary appointment)  
Bachelor of Arts, University of Missouri Columbia, 2007  
Master of Science, Stanford University, 2010  
Doctor of Medicine, University of Missouri Columbia, 2015

Alison H Oswald  
Instructor in Clinical Pediatrics

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Instructor in Clinical Pediatrics  
Bachelor of Arts, University of Michigan Ann Arbor, 1986  
Champaign, 1990

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Professor of Pediatrics (primary appointment)  
Bachelor of Science, University of Sydney, 1990  
Doctor of Philosophy, University of New South Wales, 1996

Jennifer Ann Panasci  
Assistant Professor of Clinical Pediatrics

Michael Papacostas  
Voluntary Clinical Assistant Professor of Pediatrics

Robert T Paschall, M.A., M.D.  
Professor Emeritus of Pediatrics  
Bachelor of Science, University of Tennessee, 1967  
Doctor of Medicine, University of Tennessee, 1974  
Master of Arts, Park University, 1986

Purvi R Patel, M.D.  
Associate Professor of Pediatrics (primary appointment)  
Bachelor of Arts, Rice University, 1996  
Doctor of Medicine, Baylor University, 2000

Rinkal Raj Patel  
Assistant Professor of Clinical Pediatrics

Diliane Charles Pelikan, M.D.  
Instructor in Pediatrics (primary appointment)  
Bachelor of Arts, University of Missouri Kansas City, 1997  
Doctor of Medicine, University of Missouri Kansas City, 1997

Meryl Kersten Perlman, M.D.  
Assistant Professor of Pediatrics (primary appointment)  
Bachelor of Arts, Harvard University, 1996  
Doctor of Medicine, University of Chicago, 2001

Gillian Clare Pet, M.S., M.D.  
Assistant Professor of Pediatrics (primary appointment)  
Bachelor of Arts, University of California Berkeley, 2006  
Master of Science, Washington University in St Louis, 2010  
Doctor of Medicine, Washington University in St Louis, 2011

Thomas M Pfeiffer, M.D.  
Assistant Professor of Pediatrics (Pending Executive Faculty Approval) (primary appointment)  
Doctor of Medicine, Medizinische Universität Wien, 2014

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Instructor in Pediatrics (Pending Dean’s Approval) (primary appointment)  
SOM, 2018

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Associate Professor of Pediatrics (primary appointment)
Bachelor of Science, Oberlin College, 1998
Doctor of Medicine, Washington University in St Louis, 2004
Master of Public Health, University North Carolina, 2009

Daniel S Plax, M.D.
Assistant Professor of Clinical Pediatrics
Bachelor of Arts, Brown University, 1988
Doctor of Medicine, Washington University in St Louis, 1993

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Professor of Pediatrics (primary appointment)
Division Chief - Division of Adolescent Medicine & the HHT Center
Ferring Family Chair Professor of Pediatrics
Bachelor of Arts, Brown University, 1989
Doctor of Medicine, University of Rochester, 1996

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Professor Emeritus of Clinical Pediatrics
Bachelor of Arts, Washington University in St Louis, 1957
Doctor of Medicine, University of Missouri Columbia, 1961

Santiago Boye Plurad, M.D.
Assistant Professor of Clinical Pediatrics
Bachelor of Arts, Washington University in St Louis, 1982
Doctor of Medicine, School Not Found, 1987

Deepika Polineni, M.P.H., M.D.
Associate Professor of Pediatrics (Pending Executive Faculty Approval)
Bachelor of Arts, University of Missouri Kansas City, 2001
Master of Public Health, Boston University, 2003
Doctor of Medicine, University of Missouri Kansas City, 2004

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Associate Professor of Clinical Pediatrics
Bachelor of Arts, University of Dallas, 1975
Doctor of Medicine, Southwest Texas State University, 1979

Brooke Ivan Polk, M.D.
Assistant Professor of Pediatrics (primary appointment)
Bachelor of Science, Colorado State University, 2008
Doctor of Medicine, University of Colorado Boulder, 2012

Claudia Preuschoff, M.D.
Instructor in Clinical Pediatrics
Doctor of Medicine, Wake Forest University, 1983

Cassandra Michelle Pruitt, M.D.
Professor of Pediatrics (primary appointment)
Vice Chair of Outpatient Health
Bachelor of Arts, Emory University, 1994
Doctor of Medicine, Texas Tech University, 1999

Peter J Putnam, M.D.
Assistant Professor of Clinical Pediatrics
Bachelor of Science, Williams College, 1993
Doctor of Medicine, Dartmouth College, 2007

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Assistant Professor of Pediatrics (Pending Executive Faculty Approval)
Bachelor of Science, University of Evansville, 1993
Champaign, 1999
Instructor in Clinical Pediatrics

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Bachelor of Science, Saint Louis University, 2007
Doctor of Medicine, Saint Louis University, 2011

Phillip D Reichert, M.D.
Assistant Professor of Clinical Pediatrics
Bachelor of Arts, Saint Louis University, 1992
Doctor of Medicine, Saint Louis University, 1996

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(SOM), 2019

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Bachelor of Arts, Luther College (Duplicate of Luther College Iowa), 1975
Master of Science in Nursing, Rush University, 1978
Doctor of Medicine, School Not Found, 1983

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Instructor in Clinical Pediatrics
Bachelor of Science, Saint Louis College of Pharmacy, 1982
Doctor of Osteopathic Medicine, School Not Found, 1988

Noor Riaz, M.D.
Assistant Professor of Pediatrics (primary appointment)
Doctor of Medicine, Washington University in St Louis, 2008

Brian E Richter
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Associate Professor of Pediatrics
Associate Professor of Medicine
Champaign, 1992
Doctor of Philosophy, Washington University in St Louis, 1998
Master of Science, University of Leeds, 2015

Melissa Marie Riley, M.D.
Associate Professor of Pediatrics (primary appointment)
Doctor of Medicine, Northeast Ohio Medical University, 2005

Katherine Rivera-Spoljaric, M.S., M.D.
Professor of Pediatrics (primary appointment)
Bachelor of Science, University of Puerto Rico, 1997
Doctor of Medicine, University of Puerto Rico, 2001
Master of Science, Washington University in St Louis, 2008

William L. Rives, M.S., M.D.
Associate Professor of Pediatrics (primary appointment)
Master of Science, University of Missouri Columbia, 1992
Doctor of Medicine, University of Missouri Columbia, 1996

Kris Ann Roberts, M.D.
Assistant Professor of Clinical Pediatrics
Bachelor of Arts, Midland Lutheran College, 1991

Doctor of Medicine, A T Still University of Health Sciences, 1995

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Bachelor of Arts, Saint Joseph College, 1969
Master of Arts, Yale University, 1972
Doctor of Medicine, University of Pennsylvania, 1977

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Assistant Professor of Pediatrics (Pending Executive Faculty Approval) (primary appointment)
Doctor of Osteopathic Medicine, Nova Southeastern University, 2013

Rebecca Ann Rockamann
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Melissa A Roewe, D.O.
Assistant Professor of Clinical Pediatrics
Doctor of Osteopathic Medicine, Lake Erie College of Osteopathic Medicine in Bradenton, 2009

Ram Kevin Rohatgi, M.D.
Assistant Professor of Pediatrics (primary appointment)
Assistant Professor of Radiology
Doctor of Medicine, Saint Louis University, 2013

Sandeep Rohatgi, M.D.
Assistant Professor of Clinical Pediatrics
Bachelor of Arts, Saint Louis University, 1989
Doctor of Medicine, University of Medicine and Dentistry of New Jersey, 1993

Rachael Elissa Rose, M.D.
Instructor in Pediatrics (Pending Dean’s Approval) (primary appointment)
Doctor of Medicine, University of Missouri Kansas City, 2015

David A. Rosen, Ph.D., M.D.
Assistant Professor of Pediatrics (primary appointment)
Assistant Professor of Molecular Microbiology
Bachelor of Science, University of Michigan Ann Arbor, 2002
Doctor of Philosophy, Washington University in St Louis, 2010
Doctor of Medicine, Washington University in St Louis, 2010

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Bachelor of Arts, Rice University, 1978
Master of Science, University of California, 1980
Doctor of Medicine, University of Texas Austin, 1983

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Associate Professor of Clinical Pediatrics
Bachelor of Arts, Goucher College, 1979
College Park), 1984

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Bachelor of Science, University of Missouri Kansas City, 1991
Doctor of Medicine, University of Missouri Columbia, 1996

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Bachelor of Science, University of Missouri Columbia, 1991
Doctor of Medicine, Washington University in St Louis, 1972

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Voluntary Clinical Associate Professor of Pediatrics  
Doctor of Philosophy, Saint Louis University, 1989

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Bachelor of Arts, Harvard University, 2002  
Doctor of Philosophy, University of Wisconsin Madison, 2012  
Doctor of Medicine, University of Wisconsin Madison, 2014

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Division Chief - Division of Allergy, Immunology, & Pulmonary Medicine  
Robert C. Strunk Endowed Chair for Lung and Respiratory Research  
Bachelor of Science, Massachusetts Institute of Technology, 1984  
Doctor of Philosophy, University of Texas Southwest, 1990  
Doctor of Medicine, University of Texas Southwest, 1991

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Professor of Pediatrics (primary appointment)  
Professor of Neuroscience  
Professor of Neurology  
Bachelor of Science, Yale University, 1982  
Master of Science, Albert Einstein College of Medicine, 1992  
Doctor of Philosophy, Albert Einstein College of Medicine, 1994  
Doctor of Medicine, Albert Einstein College of Medicine, 1994

**Christina M Ruby-Ziegler, M.D.**  
Voluntary Clinical Professor of Pediatrics  
Bachelor of Science, Loyola University New Orleans, 1990  
Doctor of Medicine, Northwestern University, 1994

**Emily Puetz Rudloff**  
Voluntary Clinical Assistant Professor of Pediatrics

**Martin D Rudloff, M.D.**  
Assistant Professor of Clinical Pediatrics  
Bachelor of Arts, Central Methodist College (Duplicate of Central Methodist University), 1977  
Doctor of Medicine, Washington University in St Louis, 1981

**David Rudnick, Ph.D., M.D.**  
Associate Professor of Pediatrics (primary appointment)  
Associate Professor of Developmental Biology  
Champaign, 1987  
Doctor of Philosophy, Washington University in St Louis, 1994  
Doctor of Medicine, Washington University in St Louis, 1994

**Daniel G. Rudolph, M.D.**  
Assistant Professor of Clinical Pediatrics  
Bachelor of Science, Saint Louis University, 1988  
Doctor of Medicine, Saint Louis University, 1992

**Diane Mary Rup, M.A., M.D.**  
Assistant Professor of Clinical Pediatrics  
Bachelor of Arts, State University of New York, 1976  
Master of Arts, State University of New York, 1979  
Doctor of Medicine, Case Western Reserve University, 1986

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Instructor in Pediatrics (primary appointment)  
Bachelor of Science, University of Fribourg, 2007  
Master of Science, University of Zurich, 2009  
Doctor of Philosophy, University of Lausanne, 2014

**Lisa A Ryan, M.D.**  
Assistant Professor of Clinical Pediatrics  
Doctor of Medicine, University of Nebraska, 2019

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Instructor in Pediatrics (Pending Dean’s Approval) (primary appointment)  
Bachelor of Science, University of Washington, 2015  
Doctor of Medicine, Saint Louis University, 2019

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Instructor in Pediatrics (Pending Dean’s Approval) (primary appointment)  
Bachelor of Arts, George Washington University, 2006  
Master of Science, Arizona State University, 2010  
Doctor of Philosophy, Arizona State University, 2014

**Ahmed Sameh Said, Ph.D., M.D.**  
Assistant Professor of Pediatrics (primary appointment)  
Doctor of Medicine, Ain Shams University, 2000  
Doctor of Philosophy, Ain Shams University, 2009

**Surbhi Saini, M.D.**  
Assistant Professor of Pediatrics (Pending Executive Faculty Approval) (primary appointment)  
Doctor of Medicine, Panjab University, 2007

**Martine Saint-Cyr, M.D.**  
Assistant Professor of Pediatrics (primary appointment)  
Doctor of Medicine, University of Connecticut, 2012

**Charles Michael Samson, M.D.**  
Associate Professor of Pediatrics (primary appointment)  
Bachelor of Science, University of North Carolina at Chapel Hill, 1998  
Doctor of Medicine, University of Washington, 2003

**Gretchen A Sander, M.D.**  
Instructor in Clinical Pediatrics  
Bachelor of Arts, Vanderbilt University, 2000  
Doctor of Medicine, Loyola University Chicago, 2004

**Heidi L Sandige, M.A., M.D.**  
Assistant Professor of Pediatrics (primary appointment)  
Bachelor of Arts, Northwestern University, 1991  
Master of Arts, Washington University in St Louis, 2003  
Doctor of Medicine, Washington University in St Louis, 2005

**Marco Sardiello, Ph.D.**  
Associate Professor of Pediatrics (primary appointment)  
Doctor of Philosophy, University of Bari, 2003

**Scott Saunders, Ph.D., M.D.**  
Associate Professor of Pediatrics (primary appointment)
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<tr>
<th>Name</th>
<th>Title/Position</th>
<th>Education 1</th>
<th>Education 2</th>
<th>Institution 1</th>
<th>Institution 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Krishnasamy Savadamuthu</td>
<td>Assistant Professor of Clinical Pediatrics</td>
<td>Bachelor of Science, University of Minnesota, 1983</td>
<td>Doctor of Philosophy, Stanford University, 1990</td>
<td>Doctor of Medicine, Stanford University, 1990</td>
<td></td>
</tr>
<tr>
<td>Blaine M Sayre, M.P.H., M.D.</td>
<td>Professor of Clinical Pediatrics</td>
<td>Bachelor of Medicine, Washington University in St Louis, 1968</td>
<td>Master of Public Health, University of California Berkeley, 1972</td>
<td></td>
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</tr>
<tr>
<td>Joseph Schachter, M.D.</td>
<td>Assistant Professor of Clinical Pediatrics</td>
<td>Bachelor of Arts, Indiana University Bloomington, 1974</td>
<td>Doctor of Medicine, Indiana University Bloomington, 1979</td>
<td></td>
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</tr>
<tr>
<td>Kim E Schamel, M.D.</td>
<td>Associate Professor of Pediatrics (primary appointment)</td>
<td>Bachelor of Science, University of Missouri in St Louis, 1997</td>
<td>Doctor of Medicine, University of Missouri in St Louis, 2001</td>
<td></td>
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</tr>
<tr>
<td>Janet Nagel Scheel, M.D.</td>
<td>Professor of Pediatrics (primary appointment)</td>
<td>Bachelor of Science, Georgetown University, 1990</td>
<td>Doctor of Medicine, Georgetown University, 1985</td>
<td></td>
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</tr>
<tr>
<td>Allek Lee Scheele, M.D.</td>
<td>Instructor in Pediatrics (primary appointment)</td>
<td>Bachelor of Science, University of Missouri Columbia, 2011</td>
<td>Doctor of Medicine, University of Missouri Columbia, 2015</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Howard J Schlansky, M.D.</td>
<td>Instructor in Clinical Pediatrics</td>
<td>Bachelor of Arts, University of Missouri Kansas City, 1976</td>
<td>Doctor of Medicine, University of Missouri Kansas City, 1978</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Margaret Ann Schmandt, M.D.</td>
<td>Associate Professor of Clinical Pediatrics</td>
<td>Bachelor of Arts, University of Iowa, 1982</td>
<td>Doctor of Medicine, Saint Louis University, 1987</td>
<td></td>
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</tr>
<tr>
<td>Erica Grace Schmitt, Ph.D., M.D.</td>
<td>Instructor in Pediatrics (primary appointment)</td>
<td>Bachelor of Science, University of Wisconsin Madison, 2006</td>
<td>Doctor of Philosophy, Medical College of Wisconsin, 2013</td>
<td>Doctor of Medicine, Medical College of Wisconsin, 2015</td>
<td></td>
</tr>
<tr>
<td>Jacquelyn C Schnidman, M.D.</td>
<td>Instructor in Clinical Pediatrics</td>
<td>Bachelor of Arts, University of Missouri Columbia, 1975</td>
<td>Doctor of Medicine, Saint Louis University, 1979</td>
<td></td>
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</tr>
<tr>
<td>Laura Graves Schuettpelz, Ph.D., M.D.</td>
<td>Professor of Pediatrics (primary appointment)</td>
<td>Doctor of Philosophy, Northwestern University, 2000</td>
<td>Doctor of Medicine, Northwestern University, 2005</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carly Rae Schuetz, M.D.</td>
<td>Assistant Professor of Pediatrics (primary appointment)</td>
<td>Bachelor of Science, Marshall University, 2010</td>
<td></td>
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</tr>
</tbody>
</table>
Bryan Anthony Sisk, M.D.
Assistant Professor of Pediatrics (primary appointment)
Assistant Professor of Medicine
Bachelor of Science, University of Missouri Columbia, 2007
Doctor of Medicine, Case Western Reserve University, 2013

Kelsey Alayne Sisti, M.D.
Assistant Professor of Pediatrics (primary appointment)
Bachelor of Science, University of Alaska Fairbanks, 2005
Doctor of Medicine, University of Arkansas Main Campus, 2009

Kyleigh Kay Skedgell
Assistant Professor of Clinical Pediatrics

Alan Joseph Skoultchi, M.S., M.D.
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Bachelor of Science, Duke University, 1989
Master of Science, University of Pennsylvania, 1990
Doctor of Medicine, University of Medicine and Dental Of New Jersey (Duplicate of University of Medicine and Dentistry of New Jersey), 1995

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Champaign, 2005
Champaign, 2006
Champaign, 2013

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Doctor of Medicine, University of Missouri Columbia, 2015

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Bachelor of Arts, Rice University, 1996
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Joshua C Smith
Instructor in Clinical Pediatrics

Mallory Brooke Smith, M.S., M.D.
Assistant Professor of Pediatrics (Pending Executive Faculty Approval) (primary appointment)
Chair, Department of Pediatrics
Doctor of Medicine, University of Texas Medical Branch at Galveston, 2014
Master of Science, University of Washington School of Public Health, 2021

Sherea Monica Smith, M.D.
Assistant Professor of Pediatrics (primary appointment)
Assistant Professor of Orthopedic Surgery
Doctor of Medicine, University of Missouri Columbia, 2014

Matthew D Smyth, M.D.
Professor of Pediatrics
Bachelor of Arts, Cornell University, 1992
Doctor of Medicine, University of California San Francisco, 1996

Nareshkumar J Solanki, M.D.
Assistant Professor of Clinical Pediatrics
Doctor of Medicine, University of Nairobi, 1975
David Stuart Sonderman, M.D.
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Doctor of Medicine, Loyola University Chicago, 2012

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Bachelor of Science, Georgetown University, 2010
Main Campus, 2014

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Bachelor of Arts, Drake University, 1975
Doctor of Medicine, Saint Louis University, 1979

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Doctor of Philosophy, Saint Louis University, 1991
Doctor of Medicine, Saint Louis University, 1996

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Bachelor of Science, University of Madras, 1981
Master of Science, Madurai Kamaraj University, 1983
Doctor of Philosophy, Saint Louis University, 1991
Doctor of Medicine, Saint Louis University, 1996

Danielle R St Leger
Instructor in Clinical Pediatrics

Kristin Voellinger Stahl, M.D.
Instructor in Clinical Neurology
Bachelor of Arts, Johns Hopkins University, 1992
Doctor of Medicine, University of Missouri Columbia, 1996

Sarah A Stanage, M.D.
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Doctor of Medicine, University of Louisville, 2008

Edward Stapleton, M.D.
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Doctor of Medicine, University of Texas Health Science Center, 2014

Ashley L. Steed, Ph.D., M.D.
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Bachelor of Science, Duke University, 2001
Doctor of Philosophy, Washington University in St Louis, 2008
Doctor of Medicine, Washington University in St Louis, 2008

Norman P Steele, M.D.
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Bachelor of Arts, Indiana University Bloomington, 1968
Doctor of Medicine, Indiana University Bloomington, 1972

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Bachelor of Arts, Washington University in St Louis, 2011

Doctor of Medicine, Washington University in St Louis, 2015

Randall S Sterkel, M.D.
Voluntary Clinical Associate Professor of Pediatrics
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Doctor of Medicine, Washington University in St Louis, 1993

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Bachelor of Arts, Washington University in St Louis, 1983
Doctor of Medicine, New York Medical College, 1987

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Bachelor of Science, Kansas State University, 1987
Doctor of Medicine, University of Kansas Medical Center, 1991

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Associate Professor of Pediatrics (primary appointment)
Doctor of Medicine, Eastern Virginia Medical School, 2004
Bachelor of Arts, Washington University in St Louis, 2012

Stephen I Stone, M.D.
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Bachelor of Science, University of Illinois at Chicago, 2005
Doctor of Medicine, Rosalind Franklin University of Medicine and Science (Formerly Finch University of Health Sciences), 2010

Gregory A Storch, M.D.
Professor of Pediatrics (primary appointment)
Professor of Molecular Microbiology
Professor of Medicine
Ruth L. Siteman Professor of Pediatrics
Bachelor of Arts, Harvard University, 1969
Doctor of Medicine, New York University, 1973

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(Primary appointment)
Doctor of Medicine, Tufts University, 2013

Robert H Strashun, M.A., M.D.
Associate Professor of Clinical Pediatrics
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Master of Arts, Yeshiva University, 1978
Doctor of Medicine, New York University, 1982

M. Anne Street, M.A., M.D.
Assistant Professor of Clinical Pediatrics
Bachelor of Science, DeLancey College, 1968
Master of Arts, University of Connecticut, 1970
Champaign), 1976

Rosa M Suarez-Solar, M.D.
Instructor in Clinical Pediatrics
Bachelor of Science, University of Puerto Rico (Duplicate of University of Puerto Rico), 1990
Doctor of Medicine, School Not Found, 1991

Lisa Suffian, M.D.
Assistant Professor of Clinical Pediatrics
Bachelor of Science, University of Missouri Kansas City, 1990
Christopher Alan Sumski, M.D.
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Doctor of Medicine, Kansas City University of Medicine and Biosciences, 2013

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Bachelor of Science, University of Notre Dame, 2012
Doctor of Medicine, University of Illinois at Chicago, 2016

Stuart C Sweet, Ph.D., M.D.
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Bachelor of Science, University of Michigan Ann Arbor, 1981
Doctor of Philosophy, University of Michigan Ann Arbor, 1989
Doctor of Medicine, University of Michigan Ann Arbor, 1990

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Bachelor of Science, Mount Allison University, 2000
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Linda Ann Tackes, M.D.
Assistant Professor of Clinical Pediatrics
Doctor of Medicine, University of Missouri Kansas City, 1993

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Professor of Molecular Microbiology
Division Chief - Division of Gastroenterology, Hepatology, & Nutrition
Melvin E. Carnahan Professor of Pediatrics
Bachelor of Arts, Brown University, 1975
Doctor of Medicine, Yale University, 1980

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Bachelor of Science, John Carroll University, 1990
Main Campus, 1994

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Michael D Thompson, Ph.D., M.D.
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Bachelor of Science, Washington University in St Louis, 2003
Doctor of Philosophy, University of Pittsburgh, 2012
Doctor of Medicine, University of Pittsburgh, 2012

Mary A Tillman, M.D.
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Doctor of Medicine, Howard University, 1960

Robert W Tolan, M.A., M.D.
Instructor in Clinical Pediatrics
Bachelor of Arts, Indiana University Bloomington, 1982
Master of Arts, Indiana University Bloomington, 1983
Doctor of Medicine, Washington University in St Louis, 1987

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Assistant Professor of Pediatrics (Pending Executive Faculty Approval) (primary appointment)
Doctor of Medicine, University of Missouri Columbia, 2006

Garland R Tschudin, M.D.
Instructor in Clinical Pediatrics
Bachelor of Arts, University of Missouri Columbia, 1971
Doctor of Medicine, University of Missouri Columbia, 1975

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Bachelor of Arts, Bowdoin College, 1994
Doctor of Medicine, Johns Hopkins University, 1998

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Associate of Arts, Miami Dade Community College, 1993
Bachelor of Arts, University of Miami, 1995
Doctor of Medicine, University of Florida, 2000

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Doctor of Medicine, University of Missouri Columbia, 2016

Ashlynn Brooke Turner, M.D.
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Bachelor of Science, University of Iowa, 2008
Doctor of Medicine, University of Illinois College, 2012

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Instructor in Clinical Pediatrics
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Bachelor of Arts, University of Notre Dame, 1994
Doctor of Medicine, Creighton University, 1998

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Bachelor of Science, Universidad de Buenos Aires, 2009
Doctor of Science, Universidad Nacional de San Martin Argentina, 2015

George Van Hare, M.D.
Professor of Pediatrics (primary appointment)
Louis Larrick Ward Professor of Pediatrics
Bachelor of Science, Bates College, 1980
Doctor of Medicine, University of Connecticut, 1980

Yasasvi Vasili, M.D.
Instructor in Pediatrics (primary appointment)
Doctor of Medicine, East Tennessee State University, 2015

Laird Henry Vermont
Instructor in Clinical Pediatrics

Zachary Andrew Vesoulis, M.S., M.D.
Assistant Professor of Pediatrics (primary appointment)
Oxford, 2005
Main Campus, 2009
Master of Science, Washington University in St Louis, 2019

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Foreign MD equivalent, University of Sheffield, 2001

Jean V Wagner
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Bachelor of Science, University of Notre Dame, 1997
Doctor of Medicine, Washington University in St Louis, 2001

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Bachelor of Science, Vanderbilt University, 1997
Doctor of Medicine, Vanderbilt University, 2001

Barbara B. Warner, M.S., M.D.
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F. Sessions Cole, MD, Chair in Newborn Medicine
Bachelor of Science, University of Dayton, 1976
Master of Science, University of Massachusetts Amherst, 1981
Main Campus, 1985

Michael S Watson, M.S., Ph.D.
Adjunct Professor of Pediatrics
Bachelor of Science, The American University, 1974
Master of Science, University of Alabama (Duplicate of University of Alabama in Tuscaloosa), 1978
Doctor of Philosophy, University of Alabama (Duplicate of University of Alabama in Tuscaloosa), 1981

Courtney E Watza

Voluntary Clinical Assistant Professor of Pediatrics

Kristin Kay Wenger, M.D.
Assistant Professor of Clinical Pediatrics
Bachelor of Arts, Ohio Wesleyan University, 1997
Doctor of Medicine, Washington University in St Louis, 2008

Jennifer Corinne Wessman, M.D.
Instructor in Pediatrics (primary appointment)
Bachelor of Science, College of William and Mary, 2001
Doctor of Medicine, Commonwealth College, 2005

Neil Harris White, M.D.
Professor of Pediatrics (primary appointment)
Professor of Medicine
Bachelor of Science, State University of New York at Albany, 1971
Doctor of Medicine, Albert Einstein College of Medicine, 1975

Keisha White Makinde, M.D.
Assistant Professor of Pediatrics (primary appointment)
Doctor of Medicine, University of Connecticut, 2017

Halana Victoria Whitehead, M.D.
Assistant Professor of Pediatrics (primary appointment)
Bachelor of Arts, University of Pennsylvania, 2009
Doctor of Medicine, Case Western Reserve University, 2013

Karen Whiteside, M.D.
Instructor in Clinical Pediatrics
Bachelor of Science, Washington University in St Louis, 1993
Doctor of Medicine, Washington University in St Louis, 1998

Rae Alexandra Wilkerson Maixner
Voluntary Clinical Assistant Professor of Pediatrics

Kristine G Williams, M.P.H., M.D.
Assistant Professor of Clinical Pediatrics
Bachelor of Arts, Georgetown University, 1985
Doctor of Medicine, Georgetown University, 1989
Master of Public Health, Saint Louis University, 2001

Daniel Nathan Willis, M.D.
Assistant Professor of Pediatrics (primary appointment)
Bachelor of Science, Benedictine College, 2009
Doctor of Medicine, University of Kansas Medical Center, 2013

David B Wilson, Ph.D., M.D.
Professor of Pediatrics (primary appointment)
Professor of Developmental Biology
Bachelor of Arts, Kalamazoo College, 1980
Doctor of Philosophy, Washington University in St Louis, 1986
Doctor of Medicine, Washington University in St Louis, 1986

Susan May Wiltrakis, M.D.
Assistant Professor of Pediatrics (primary appointment)
Bachelor of Science, Valparaiso University, 2010
Doctor of Medicine, University of Alabama in Birmingham, 2012

Loralee Jane Wold, M.D.
Instructor in Clinical Pediatrics
Bachelor of Arts, Saint Louis University, 1993
Doctor of Medicine, Saint Louis University, 1997

Katie Knoedelseder Wolfe, M.D.
Assistant Professor of Pediatrics (Pending Executive Faculty Approval) (primary appointment)
Bachelor of Science, Vanderbilt University, 2007
Doctor of Medicine, Saint Louis University, 2011

Kel Vin Woo, Ph.D., M.D.
Instructor in Pediatrics (Pending Dean’s Approval) (primary appointment)
Doctor of Philosophy, Vanderbilt University, 2010
Doctor of Medicine, Vanderbilt University, 2012

Mark Norman Woolley, M.D.
Assistant Professor of Pediatrics (primary appointment)
Bachelor of Science, Rockhurst University, 2009
Doctor of Medicine, Saint Louis University, 2013

Ronald Edward Worthington
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Linda Xiao-Chen Wu, D.O.
Instructor in Pediatrics (primary appointment)
Adjunct Lecturer
Bachelor of Science, University of Waterloo, 2007
Doctor of Osteopathic Medicine, Midwestern University, 2015

Kathie R Wuellner, M.D.
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Bachelor of Science, Champaign, 1973
Doctor of Medicine, Saint Louis University, 1978

Hayley Wurzel, M.D.
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Kristine M Wylie, Ph.D.
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Bachelor of Arts, Southern Illinois University Edwardsville, 1996
Doctor of Philosophy, Saint Louis University, 2009

Todd N Wylie
Assistant Professor of Pediatrics (primary appointment)
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Xunjun Xiao, M.S., Ph.D.
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Master of Science, China Agricultural University, 2001
Doctor of Philosophy, Virginia Polytechnic Institute and State University, 2005

Mona Yassin, M.D.
Instructor in Clinical Pediatrics
Doctor of Medicine, School Not Found, 1979

Aecha Marion Ybarra, M.S., M.D.
Assistant Professor of Pediatrics (primary appointment)
Bachelor of Science, University of Miami, 2003

Master of Science, Barry University, 2007
Doctor of Medicine, Saint George’s University, 2012

Kentaro Yomogida, MB.BCh.
Instructor in Pediatrics (primary appointment)
Foreign MD equivalent, Nippon Medical School, 2008

Julia Catherine Young, M.D.
Assistant Professor of Clinical Pediatrics
Doctor of Medicine, Saint Louis University, 1999

Staci R. Young, M.D.
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Bachelor of Science, Truman State University (Duplicate of Truman State University (Formerly Northeast Missouri State University)), 1997
Doctor of Medicine, Southern Illinois University (Duplicate of Southern Illinois University Carbondale), 2002

Cecilia H Yu, M.D.
Assistant Professor of Clinical Pediatrics
Bachelor of Science, Brown University, 1987
Doctor of Medicine, University of Texas Southwest, 1992

Christina Elizabeth Zanaboni, M.D.
Assistant Professor of Pediatrics (Pending Executive Faculty Approval) (primary appointment)
Doctor of Medicine, Saint Louis University, 2016

Ritu L Zei, M.D.
Instructor in Pediatrics (primary appointment)
Bachelor of Science, Washington University in St Louis, 2008
Doctor of Medicine, Medical College of Wisconsin, 2013

Bo Zhang, Ph.D.
Instructor in Pediatrics (primary appointment)
Doctor of Philosophy, Chinese Academy of Sciences, 2013
Doctor of Science, Wuhan University (####), 2020

Daisy Zhou, M.D.
Assistant Professor of Clinical Pediatrics
Doctor of Medicine, Washington University in St Louis, 2016

Amy Christine Zimmermann, M.D.
Instructor in Clinical Pediatrics
Bachelor of Science, University of Missouri Columbia, 1998
Doctor of Medicine, University of Missouri Columbia, 2003

Research Electives
Pediatrics Research Electives

During the fourth year, opportunities exist for many varieties of advanced clinical or research experiences.

Andrew C. Zuckerman
Instructor in Clinical Pediatrics
Ana Maria Arbeláez, 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 the 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 the risk of neonatal respiratory distress syndrome.

Vikas Dharnidharka, MD, MPH
Northwest Tower, 10th Floor
Phone: 314-286-1574
The focus of this lab is on clinical and translational research in childhood kidney disease. Our group is involved in several different types of clinical and translational research, including multicenter clinical intervention trials to improve teen adherence with transplant medications and to test new medications in children on dialysis; translational biomarker studies in transplant acute and chronic rejection and genomic studies or post-transplant lymphoproliferative disease; and large transplant database epidemiological analyses for associations of immunosuppressive regimens with efficacy and morbidity balance.

Stephanie A. Fritz, MD, MSCI
Northwest Tower, Room 10125
Phone: 314-454-4115
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 as well as interventions to interrupt the transmission of CA-MRSA and to 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 the 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
Phone: 314-286-1376
Our focus is on the extracellular matrix in vascular development and disease. Specifically, we study the 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 to learn about the normal function of these proteins but also to identify potential novel therapeutic targets.

Robert J. Hayashi, MD
St. Louis Children's Hospital, Suite 9S
Phone: 314-454-4118
Our clinical research interests include stem cell transplantation and its complications, including post-transplant lymphoproliferative disease and the long-term side effects of therapy.

Keith A. Hruska, MD
McDonnell Pediatric Research Building, 5th Floor
Phone: 314-286-2772
The research in the laboratory focuses on chronic kidney disease and its complications of the chronic kidney disease mineral bone disorder syndrome, which 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
Phone: 314-286-2797
Our 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  
Phone: 314-286-2170

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 the 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  
Phone: 314-286-2136

Our laboratory investigates the molecular mechanisms underlying immune cell signaling and trafficking using mouse models. We hope to identify the molecules that are 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.

Alan L. Schwartz, PhD, MD  
425 McDonnell Sciences Building  
Phone: 314-286-1709

Our investigative efforts are aimed at understanding the biology of cell surface receptors, including the biochemical and molecular dissection of the mechanisms responsible for the receptor-mediated endocytosis of blood coagulation proteins and the regulation of intracellular protein turnover.

Shalini Shenoy, MD  
St. Louis Children’s Hospital, Suite 95  
Phone: 314-454-6018

Investigation of novel reduced-intensity transplant strategies for pediatric nonmalignant disorders and the immunologic basis of graft-versus-host disease and graft rejection

Gregory A. Storch, MD; Kristine Wylie, PhD; Todd Wylie, BS; and Richard S. Buller, PhD  
St. Louis Children’s Hospital, Suite 2NS2  
Phone: 314-454-6079

Our focus is the study of 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 the use of next-generation sequencing to define the human virome in immunocompromised children; improved methods for detecting viruses using next-generation sequencing; the 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 the development of a rapid diagnostic test for enterovirus D68. Students would have the opportunity to learn genomic techniques, including informatics analysis.

Phillip I. Tarr, MD  
McDonnell Pediatric Research Building, Room 6103  
Phone: 314-286-2848

Our work involves research in the areas of 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, 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.

Neil H. White, MD, CDE  
St. Louis Children’s Hospital, Northwest Tower, 10th Floor  
Phone: 314-286-1157

Our work involves patient-oriented research in the management of diabetes in children. Arrangements can be made for involvement in or the development of projects aimed at improving outcomes of or the prevention of diabetes mellitus and its complications.

David B. Wilson, MD, PhD  
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Our research is focused on the molecular switches that regulate control genes during early embryonic development and differentiation.

Courses

M65 Peds 501 Introduction to Genetic Counseling I
This seminar provides an overview of genetic counseling and health care, and it discusses how individual differences can affect health care choices and belief systems. Students will become familiar with the process of genetic counseling, and they will build an awareness of related health professions, the health care system, and important terminology. Attendance and active participation are expected and required. Course activities will include interactive lectures, class discussions, class member presentations, guest presentations, and outside reading. This course is open to students in the Program in Genetic Counseling. Admittance may be offered to other students by request. Credit 4 units.

M65 Peds 502 Current Topics in Human and Mammalian Genetics
This graduate-level course provides an overview of concepts in mammalian molecular genetics, especially as it pertains to human diseases. Guest lecturers will give seminars on their topics of research and assign relevant papers for discussion. Students should read assigned papers prior to each lecture and contribute to the class discussion. Credit 3 units.

M65 Peds 503 Laboratory Genetic Counseling
This course is designed for genetic counseling students, and it focuses on a variety of areas related to genetic counseling in the laboratory. Students will become familiar with various laboratory testing methodologies, data interpretation, and report writing in addition to professional and regulatory scenarios encountered in the lab. Attendance and active participation are expected and required. The course will consist of lectures, class discussions, hands-on demonstrations and tutorials, laboratory tours, and written materials. Some travel will be required. This course is open to students in the Master’s in Genetic Counseling Program. Admittance may be offered to other students by request. Credit 3 units.

M65 Peds 504 Genetic Counseling Journal Club
This journal club is a monthly, two-hour discussion of a relevant topic in clinical genetics. Research articles are selected from the literature and presented by attendees (one article per attendee). Summaries of the articles include a critical appraisal of the study and its methodology and results; the potential implications of the results for clinical practice (if any); the limitations of the conclusions that can be drawn from the study; and any biases or conflicts of interest that could have affected the study results. This course is open to students in the Master’s Program in Genetic Counseling. Admittance may be offered to other students by request. Credit 1 unit.

M65 Peds 505 Introduction to Genetic Counseling II
This course is a seminar focusing on preparing students for their clinical rotations and learning and practicing basic counseling skills. Attendance and active participation is expected and required. Course activities will include interactive lectures, class discussions, class member presentations, guest presentations, and outside reading. This course is open to students in the Master’s in Program in Genetic Counseling. Admittance may be offered to other students by request. Prerequisite for this course is Introduction to Genetic Counseling I. Credit 4 units.

M65 Peds 506 Clinical Genetic Specialties
This course is a seminar focusing on a variety of specialty areas in clinical genetics. Attendance and active participation are expected and required. Course activities will include interactive lectures, class discussion, and class member presentations. There will be 2 examinations - mid-term and final. This course is open to students in the Master’s Program in Genetic Counseling. Admittance may be offered to other students by request. Prerequisites for this course are Introduction to Genetic Counseling I and Laboratory Genetic Counseling. Credit 3 units.

M65 Peds 507 Genetic Counseling Research Design and Ethics
This course will provide the foundation for the development and execution of the research project required for successful completion of the Master’s of Science in Genetic Counseling degree. Through a series of interactive lectures, class discussions, student presentations, guest presentations, and outside reading, students will learn about common genetic counseling-relevant research methods; areas of active genetic counseling research on both a local and national level; and ethical guidelines for the conduct of responsible human subjects research. By the end of the course, students will select a topic for their research project and submit a research proposal. Students will register for Research Project I, II, and III to complete their research projects with faculty mentorship and peer support. This course is open to graduate students at Washington University School of Medicine. Prerequisites for this course are admission into the WUSM Graduate Program in Genetic Counseling or special permission from the instructor. Credit 3 units.

M65 Peds 601 Advanced Genetic Counseling I
This course is a seminar focusing on starting to build advanced genetic counseling skills. Students will become familiar with unique aspects of various genetic counseling specialties, with a focus on prenatal genetics. Students will also learn about counseling theories, psychosocial assessment, psychosocial counseling techniques, and professional development skills. Attendance and active participation are expected and required. Credit 4 units.

M65 Peds 602 Research Project II
The primary objective of this course series is to ensure the timely completion of student research projects. This course series provides research project scaffolding, mentorship, and opportunities for peer feedback. Research Project II is taken during the fall semester of the second year. Credit 2 units.

M65 Peds 603 Clinical Fieldwork Rotations II
This course covers clinical fieldwork rotations. Participation as requested by supervisors is required. Clinical Fieldwork Rotations II involves two 14-day clinical rotations during the fall semester of the second year. Students who complete this course successfully will be able to demonstrate management of a genetic counseling case from contracting to follow-up and successfully use psychosocial counseling skills with patients. Credit 3 units.

M65 Peds 604 Teratology
This course is a weekly seminar focusing on human teratogens. Students will become familiar with the mechanisms by which exposures affect human development, learn about known and potential teratogens, and understand the methods by which exposures are studied to understand their potential effects. Finally, students will learn how to incorporate data available in the medical literature.
and databases to provide information about teratogens to patients and providers. Attendance and active participation is expected and required. Course activities will include interactive lectures, class discussions, member presentations, guest presentations, and outside reading. This course is open to students in the Master’s Program in Genetic Counseling. Admittance may be offered to other students by request. Prerequisite for this course is Human Embryology (taken online via University of Cincinnati during the first year of study).

Credit 2 units.

M65 Peds 605 Advanced Genetic Counseling II
This course is a seminar focusing on building and honing advanced genetic counseling skills. Students will learn about complex issues such as family dynamics, crisis intervention, and implicit biases and use this knowledge to increase their psychosocial assessment and counseling skills. This course will also help prepare students for graduation with a focus on ABGC Board Examination readiness and learning how to use self-care techniques to assist with stress management. Course activities will include interactive lectures, class discussions, class member presentations, guest presentations, and outside reading. This course is open to students in the Program in Genetic Counseling. Admittance may be offered to other students by request. Prerequisite for this course is Advanced Genetic Counseling I (M65.601).

Credit 4 units.

M65 Peds 606 Clinical Fieldwork Rotations III
This course covers clinical fieldwork rotations. Participation as requested by supervisors is required. This includes two 14-day clinical rotations during the spring semester of the second year. This course is open to students in the Master’s Program in Genetic Counseling. Prerequisites for this course are successful completion of Clinical Fieldwork Rotations I and II (M65.509 and M65.603).

Credit 3 units.

M65 Peds 607 Research Project III
The primary objective of the course series is to ensure the timely completion of student research projects. This course series provides research project scaffolding, mentorship, and opportunities for peer feedback. Research Project II is taken during the spring semester of the second year. This course is open to students in the Master’s Program in Genetic Counseling.

Credit 2 units.

M65 Peds 811 Pediatric Critical Care (Clinical Elective)
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 (Clinical Elective)
This elective will focus on the interpretation of hemodynamic and angiographic data acquired in the cardiac catheterization laboratory.

M65 Peds 819 Outpatient Pediatric Cardiology (Clinical Elective)
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/inherited arrhythmias, pulmonary hypertension, William’s syndrome, Down syndrome, cardiac neurodevelopmental, COVID-19/MIS-C, 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 as 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, Richardson Crossing clinic in Arnold, Graham Road clinic in North St. Louis County, and Shiloh clinic in Shiloh, IL. 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, including fetal echocardiography. Participation in weekly surgical conference and daily cardiology educational conferences is encouraged.

M65 Peds 826 Genetics and Genomic Medicine (Clinical Elective)
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 828 Pediatric Hematology and Oncology (Clinical Elective)
Students will assume the responsibilities of a pediatric resident on the inpatient Hematology/Oncology service at St. Louis Children’s Hospital. Serving in a classic subintern role, the student will perform evaluations and manage, under the supervision of a senior resident, patients who span the scope of diseases in our discipline. Additional educational activities include regularly held didactic lectures, participation in our weekly "tumor board" conference, reviewing peripheral smears and bone marrow aspirate specimens obtained from our patients.

M65 Peds 836 Pediatric Rheumatology (Clinical Elective)
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 autoimmune disease and disorders of the immune system will be provided. Students will participate in evaluation of new and return patients with a variety of rheumatologic diseases, including juvenile idiopathic arthritis (JIA), systemic lupus erythematosus (SLE), juvenile dermatomyositis (JDM), autoinflammatory/periodic fever syndromes, and scleroderma. The student will also learn the approach to patients with positive autoantibodies, joint pain, muscle pain, and other common complaints that a general pediatrician may encounter. Locations include SLCH inpatient/outpatient, SLCH Specialty Care Center clinics, and Shriners Hospital clinics. Students will have the opportunity to attend multiple conferences.

M65 Peds 838 Pediatric Gastroenterology, Hepatology, and Nutrition (Clinical Elective)
The rotation in Pediatric Gastroenterology, Hepatology, and Nutrition provides broad exposure to specialized and common pediatric gastrointestinal and hepatobiliary problems. Division patients are seen in the outpatient suites and in the hospital. Students evaluate
outpatients with common pediatric complaints like abdominal pain, constipation, and poor growth. Additionally, students experience the ongoing outpatient care of patients with chronic conditions such as 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 as well as seeing patients on the pediatric gastrointestinal consultation service. Students participate in diagnostic and therapeutic endoscopic procedures. At weekly divisional conferences, faculty, 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 (Clinical Elective)
In 2013, the CDC estimated that 23,000 Americans die annually from antibiotic-resistant infections, and an additional two 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-Resistant Bacteria. This plan calls for improvement in antimicrobial use in human and agricultural medicine, better diagnostics, increased collaboration domestically and internationally, and the 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 levels, 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 do the following: (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 different health care settings; (4) List the social determinants that impact antimicrobial stewardship programs; and (5) Explain how the microbiome and resistome are important in our efforts to improve antimicrobial use.

M65 Peds 840 Pediatric Infectious Diseases (Clinical Elective)
This elective is designed to engage students in the clinical aspects of routine and complex infectious diseases in children (ages birth to 18 years). Students will perform ID specialty consultations on both inpatients and outpatients. Regular daily activities will include evaluation of new patients, work rounds on inpatient consults, and teaching rounds with the ID fellow and/or attending. Students will attend the general pediatric ID clinic and the pediatric HIV clinic, one half-day each per week. Formal teaching includes HIV and ID Core Curriculum sessions, a weekly pediatric ID case conference, a weekly joint clinical conference with the adult ID division, and weekly clinical microbiology teaching rounds with Pathology faculty from the bacteriology and molecular diagnostics labs.

M65 Peds 845 Pediatric Emergency Medicine (Clinical Elective)
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 subintern 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 am - 3:00 pm) or an evening shift (3:00 pm - 11:00 pm) 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 his/her choosing.

M65 Peds 846 Child Abuse Pediatrics (Clinical Elective)
The medical student will work with the Child Protection (CPP) team at St. Louis Children’s Hospital, which consists of two Child Abuse Pediatrics attending physicians, one Child Abuse Pediatrics fellow, a Pediatric nurse practitioner, a clinic nurse, and 2 social workers. Pediatric residents or Pediatric Emergency Medicine fellows also may be rotating with the team at the same time. The student will observe inpatient consults for physical and sexual abuse and outpatient clinic patients for physical and sexual abuse. The student may attend court cases (off campus) and watch expert witness testimony by the CPP physicians/nurse practitioner. The student may attend Fatality Review medicales (off campus). The student will have daily (45 minute) lectures with one of the child abuse attending physicians on a variety of topics related to child maltreatment and will attend the Child Protection team meeting (1 hour) every day. The student can also attend Pediatric Residency noon conference during this rotation.

M65 Peds 849 Pediatric Endocrinology and Diabetes (Clinical Elective)
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 (Clinical Elective)
This elective provides an excellent opportunity for students to be exposed to the full scope of respiratory diseases and sleep disorders in infants and children. Pediatric referrals will be seen in both inpatient and outpatient settings. Rotation goals for students include: 1. Gain greater insights into the genetics, epidemiology, pathophysiology, and clinical presentations of lung diseases in children. 2. Learn the importance of the physical examination using inspection, percussion, and auscultation. 3. Understand indications and interpretation of diagnostic tests, such as chest imaging, blood gas measurements, polysomnography, pulmonary function testing, and flexible bronchoscopy. 4. Learn about various treatment modalities available for common lung diseases. Unique aspects of this rotation include: - A broad exposure to children with asthma, cystic fibrosis, sleep disorders, ciliopathies, interstitial lung diseases, chronic lung disease of infancy, congenital lung malformations, and advanced cardiopulmonary diseases referred for lung transplantation. - Weekly didactic sessions and divisional clinical conferences provide opportunities for the trainee to develop his or her presentation skills.
M65 Peds 861 Newborn Medicine (Clinical Elective)
The goal of this course is to allow students the opportunity to assume primary responsibility for patients in the Neonatal Intensive Care Unit (NICU) under the direct supervision of first or second year residents as well as fellows and attendings. Students will participate in formulation of diagnostic and treatment plans, coordination of care and communication with families. Throughout the rotation the students will broaden their understanding of pathophysiology as it relates to the transition from fetal to neonatal life and in common disease states affecting neonates. There will be emphasis on improving clinical problem-solving skills, communication within the team as well as with ancillary staff and families. Students during each rotation will have the option to rotate through the Neonatal Intensive Care Unit at St. Louis Children’s Hospital and/or the Neonatal Assessment Center / Labor and Delivery services at Parkview Tower - Barnes-Jewish Hospital. Students assigned to the Labor and Delivery Service will routinely be involved in normal newborn care and delivery room management. Expectations during the rotation in the NICU (please check with your attending - schedules will vary): Arrive between 6:30 and 7 am (arrange timing with resident), daily examine assigned patients and review your plan with the supervising resident/fellow on the team prior to rounds 8:00-8:30 am: attend NICU teaching rounds, Monday through Thursday. Location: 5100 conference room. (currently virtual) 8:30 to 8:45 am: Radiology rounds, Monday through Thursday. (currently virtual) 8:45 to 10 am: Patient care rounds, daily (please check expectations for presentations with your attending/fellow) 12 noon: All resident conference in SLCH auditorium. (currently virtual) 1:00 to 2:00 pm: Division conferences (Case Conferences, M&M and core lectures), Wednesdays only. Location: varies (verify with fellow/attending)

M65 Peds 870 Pediatric Clinical Immunology (Clinical Elective)
Students in the two-week or four-week pediatric immunology elective will learn to apply immunology knowledge to clinical practice by participation in caring for pediatric immunology patients in various settings, including Immunology, Allergy, Rheumatology, and Immunology BMT clinics. They will also participate in inpatient rounds with faculty and fellows in the immunology service.

M65 Peds 875 Pediatric Nephrology (Clinical Elective)
This course 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, pediatric nephrology educational conferences, 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 (Clinical Elective)
St. Louis Children’s Hospital has the largest pediatric lung transplantation experience in the world. This flexible and unique clinical rotation will provide the potential for students to be exposed to the process of lung transplantation from referral and listing to surgical and post-operative care. The use of diagnostic tests, including flexible fiberoptic bronchoscopy with biopsies and bronchoalveolar lavage, histopathology of infection and graft rejection, and the complexities of immunosuppression will all be explored. In addition to both inpatient and outpatient exposure to pediatric lung transplant patients, students are encouraged to participate in weekly multidisciplinary meetings with our team, as well as meetings focused on program quality improvement and patient/family psychosocial issues. Our patient referral base is worldwide, and includes infants and children with cystic fibrosis, pulmonary hypertension, complex congenital heart defects, and congenital lung diseases including surfactant protein deficiencies. Because our patient volume is variable, students will also have the opportunity to participate in general inpatient and outpatient pediatric pulmonology clinics and inpatient services as their interests and time permit. Students are encouraged to reach out to the course director in advance of the rotation so that we can tailor the experience to best meet their needs.

M65 Peds 910 Pediatrics Advanced Clinical Rotation (ACR)
This is the general pediatric ACR. The student will be assigned to one of two inpatient pediatric floor teams at St. Louis Children’s Hospital (10-100/green or 11-100/yellow teams). They will follow patients from initial evaluation through 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. With supervision, students will be expected to preround on their patients, present on rounds, perform daily tasks including calling consults, PMDs, writing orders (to be cosigned), and other various tasks, write notes (to be cosigned), and participate in handoffs. Students will spend 3 weeks on day shifts and 1 week on night shifts. 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 but not limited to pulmonary, infectious diseases, gastrointestinal, renal, endocrine, neurological, and rheumatologic issues. Other common conditions include failure to thrive, ingestions, and fever of unknown origin. Credit 140 units.

M65 Peds 915 Newborn and Pediatric Critical Care Advanced Clinical Rotation (ACR)