Instruction in Medicine is provided during all four years of the medical curriculum, beginning with Practice of Medicine I (Medicine 507) in the first year. Teaching in the second year has two main objectives: the correlation of the basic sciences with clinical aspects of disease and training in the technical methods of physical examination and laboratory diagnosis. By the beginning of the third year, the student is ready for supervised clinical study of individual patients. A clinical clerkship of 12 weeks, divided into three four-week periods, is served by third-year students on the medical services of the department. In the final year, students may elect a sub-internship in general medicine and a series of elective courses in the medical specialties.

Website: https://internalmedicine.wustl.edu

Research

For information about Primary Care Summer Preceptorships (p. 4), please refer to the information at the bottom of this section.

M25 Medicine 900

Dana R. Abendschein, PhD
9924 Clinical Sciences Research Building
Phone: 314-362-8925

Research in this translational physiology laboratory is focused on development of novel antithrombotic approaches for use during acute myocardial infarction, stroke, and surgery where vascular injury is an underlying mechanism. Current studies are designed to define the efficacy of targeting antithrombics to the surface of injured vascular cells and activated platelets on thrombus progression. One approach uses nanoparticles covered with epitopes to bind exposed receptors on thrombus and containing inhibitors of coagulation or platelet activation. Students will be expected to participate in experiments using animal models and will develop skills in experiment design, vascular physiology, clinical antithrombotic therapy, coagulation, histopathology and statistics.

John P. Atkinson, MD
Clinical Sciences Research Building, 10th Floor
Phone: 314-362-8391

A clinical research elective is offered in the evaluation of patients with complement deficiency or overactivity states and with undiagnosed rheumatic disease syndromes.

Roberto Civitelli, MD
BJC Institute of Health, 11th Floor, Musculoskeletal Research Center
Phone: 314-454-8408

The biology of cell-cell interactions and communication in bone via gap junctions and cell adhesion molecules. Function of connexins and cadherins in transcriptional control of osteoblast differentiation, osteoclastogenesis, and mechanotransduction. Modulation of mesenchymal lineage allocation and osteogenic differentiation by cadherins and beta-catenin signaling.

Nicholas O. Davidson, MD
910 Clinical Sciences Research Building, North Tower
Phone: 314-362-2027

Genetic pathways for nonalcoholic fatty liver disease (NAFLD) and colorectal cancer development. We have two major areas of research interest. Our laboratory is interested, first, in the molecular mechanisms of hepatic steatosis and the pathogenesis of NAFLD. This is the most prevalent liver disease in the U.S., likely affecting a quarter of the population. We have generated genetically manipulated mouse strains that offer insights into the mechanisms of hepatic steatosis. The student would work as part of a team, designing and conducting experiments that will test hypotheses concerning the mechanisms and consequences of hepatic steatosis. These studies will primarily involve mouse genetics, examining the expression of candidate genes under a variety of nutritional and pharmacologic settings that modulate hepatic lipid metabolism. In addition we are using microarrays to study the spectrum of genetic changes that may predict the extent of hepatic lipid accumulation in patients with steatohepatitis. Our goal is to test hypotheses using mouse genetics and to extend these studies to examine the same pathways in humans with NAFLD. Our second area of interest concerns the genetic pathways involved in colorectal cancer, the second leading cause of cancer-related deaths. We have developed a novel strain of mice in which the dominant effects of mutations in the APC tumor suppressor gene have been abrogated through deletion of an RNA binding protein, apobec-1. This deletion has a major effect on the expression of cox-2, abrogating the increase in expression seen in human colonic adenomas and wild-type mouse intestinal adenomas. These findings suggest that apobec-1 is a genetic modifier of colon cancer development. We will study the importance of apobec-1 expression in human colon cancer specimens and continue our murine genetic studies of this novel pathway for modulating colon cancer development and progression.

Gerome Escota, MD
6604 Wohl Hospital
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Email (escotag@wustl.edu)

Special projects in medical education. Through special arrangement with and approval by the course director, fourth-
year students will participate in special projects in medical education. Typical projects will require approximately four weeks to complete. These four weeks can occur consecutively (preferred) or be spread out somewhat as needed. Medical education projects should be aimed at improving the curriculum, student experience, and/or administration of the Internal Medicine Clerkship or the Sub-Internship. Interested students should contact the course director via phone or email to discuss the proposed project. Those who are interested but would like guidance in designing a project should also contact the course director. This is open only to Washington University School of Medicine students.

Bradley Evanoff, MD, MPH
Phone: 314-454-8638

Occupational medicine epidemiology and intervention research. Our research involves the use of epidemiology methods to characterize associations between diseases and work-related exposures. We are also doing workplace intervention studies to prevent injuries and illnesses, and to improve healthy diet and physical activity among working populations. During an elective in occupational medicine epidemiology research, students will learn how to use epidemiologic methods to investigate disease processes by working on a mutually agreed-on topic of interest related to occupational diseases. Other activities can include work-site visits and intervention projects, as well as involvement with work-site health promotion and policy making. Elective length is variable depending on individual circumstances. Please contact Dr. Evanoff to discuss this research.

Gregory I. Goldberg, PhD
Wohl Clinic, 4th Floor
Phone: 314-362-8172

Role of secreted extracellular matrix metalloproteases in tissue remodeling. Structure and function of the metalloproteases.

Richard W. Gross, MD, PhD
4525 Scott Avenue, East Building
Phone: 314-362-2690

Lipid mediators of signal transduction in the cardiovascular system. Characterization of regulatory mechanisms responsible for the liberation of lipid second messengers during cellular activation. The roles of phospholipases in mediating the metabolic syndrome and end-organ tissue damage.

Stacey House, MD, PhD
Phone: 314-362-8070
Email (houses@wustl.edu)
or Lisa Hayes
Phone: 314-362-4362
Email (hayesl@wustl.edu)

Emergency medicine clinical research. Emergency medicine clinical research involves the gamut of research designs ranging from retrospective cohort studies (“The Use of B Hydroxy Butyrate Point-of-Care Testing in Diabetic Ketoacidosis”) to prospective clinical trials (“Biomarkers in Traumatic Brain Injury”) to the evaluation of health care systems and Emergency Department processes (“Effects of a Triage Process Conversion on the Triage of High Risk Presentations”) to analyzing health policy issues (“Rate of Follow-up to a Primary Care Clinic and Subsequent Emergency Department Utilization among an Urban ED Population”). Students will learn the basic clinical research designs and will be able to articulate the benefits and drawbacks of each. They will be involved in hypothesis generation and study design for projects that are at that stage. For ongoing projects, they will learn about the informed consent process and be involved in screening for study subjects and subject selection and enrollment. They will be allowed to consent for studies judged to be minimal risk. Students will be taught important rules regarding data acquisition and entry, particularly as it relates to standards that have been set forth in the medical literature. They will learn about bias and inter-rater reliability. Students will participate in data entry, data analysis, and subsequent abstract/manuscript preparation based on their level of interest and ability for time commitment. Students will meet weekly with one of the course directors to discuss study progress and to identify any roadblocks to study completion. These meetings will also serve as a forum for one-on-one education of the student regarding study methodology, ethical issues in research, and various resources available to the clinical researcher at Washington University.

Sandor J. Kovacs, MD, PhD
9965 Clinical Sciences Research Building
Phone: 314-362-8901

For students with math, physics and engineering background. Cardiovascular biophysics research elective concentrates on physiologic modeling and comparison of model predictions to in vivo human data. Minimum of eight weeks of elective time.

Marc S. Levin, MD, and Deborah C. Rubin, MD
922/924 Clinical Sciences Research Building
Phone: 314-362-8933, 314-362-8935

Students will be members of a collaborative research team headed by Drs. Levin and Rubin (Department of Medicine) investigating the mechanisms underlying the intestinal adaptive response that occurs to compensate for loss of functional small intestine. A second project focuses on epithelial-mesenchymal interactions and their role in regulating gut epithelial proliferation carcinogenesis and the normal and cancer stem cell niche. Specific mechanisms under investigation include the function of an immediate early gene Tis7 on gut adaptation following resection or injury. The role of myofibroblast protein epimorphin in regulating cell proliferation and colon carcinogenesis is being explored. The student will have the opportunity to learn basic molecular biology and physiology as it relates to small intestinal growth and function. Examples of techniques that are used in these studies include small animal surgery and colitis and cancer models (mice and rats), molecular biological techniques including PCR, Northern blotting, vector construction
for production of transgenic and knockout mouse models, in situ hybridization and immunohistochemistry.

**Jason C. Mills, MD, PhD**
Clinical Sciences Research Building, North Tower, Room 1030
Phone: 314-362-4213

We investigate the differentiation of epithelial stem cells in the upper GI tract. We study how genes regulate differentiation in mouse models and in vitro in tissue culture, and we correlate our findings with human tissue specimens. Specific projects include: (1) understanding how inflammation leads to aberrant differentiation (metaplasia), which is a precursor for cancer; (2) elucidating how master regulatory transcription factors like Xbp1 and Mist1 coordinate the massive cytoskeletal and organelar expansion of specialized secretory cells as they differentiate from stem cells; and (3) understanding mechanisms regulating how differentiated cells can be reprogrammed into stem cells in GI organs like stomach and pancreas.

**Richard E. Ostlund, MD**
8804 Wohl Hospital
Phone: 314-362-8286

Our laboratory focuses on the prevention and treatment of coronary heart disease by studying cholesterol absorption, detoxification and elimination from the body. Direct patient studies that use new stable isotopic cholesterol tracers and mass spectrometry techniques complement in vitro work on the biochemistry of cholesterol transport in cultured cells.

**Russell Pachynski, MD**
BJC Institute of Health, 7th Floor
Phone: 314-286-2341

Our lab focuses on several aspects of tumor immunology and translational immunotherapy. We utilize mouse tumor models, human tissues and samples, and advanced molecular and immunologic techniques to study leukocyte trafficking in the setting of tumor development and progression. We also have projects focusing on developing novel immunotherapeutics aimed at augmenting the recruitment of beneficial leukocyte subsets into the tumor microenvironment in order to suppress tumor growth. We are utilizing several approaches such as nanoparticles, fusion proteins and viruses.

**Phyllis K. Stein, PhD**
Northwest Tower, Room 13116
Phone: 314-286-1350
Email (pstein@wustl.edu)

Clinical significance of heart rate variability and ECG-derived waveform parameters obtained from continuous ambulatory monitoring. This elective affords the opportunity to perform research in heart rate variability or in other measurements, like QT variability or T-wave alternans that can be derived from continuous ECG monitoring from Holter recordings or polysomnography recordings in the sleep lab. One area of active research is the identification of heart rate patterns associated with obstructive and central sleep apneas and hypopneas and the relationship of previously unappreciated cycling heart rate patterns and outcomes. Data are also available from mice. Many possible projects are available using our many large existing datasets, using the thousands of stored studies in the sleep lab, or involving de novo data collection in a clinical or animal population and in infants. Also, many possible directions for this research are available from applying traditional and nonlinear HRV to different populations, developing methods to quantify ultradian heart rate variability patterns, to developing novel ECG analysis techniques, etc. Also, we are involved with the Cardiovascular Health Study (CHS), a large population-based longitudinal study of risk factors for heart disease and stroke among community-dwelling people >65 years old. There is a subset of this population who had Holter recordings (~1400 at baseline, ~800 of the same people five years later, and ~370 minority subjects recorded at the same time as the second CHS recording). These recordings have already been analyzed by us so there is a large amount of heart rate variability and heart rate pattern data available. There are also subsets of the CHS and of another study (EPHESUS) who are known to have died suddenly, and we have developed a matched control group in order to examine ECG-based differences in those who died suddenly. We also have electronic sleep studies at two time points for about 300 of the CHS Holter participants who also participated in the Sleep Heart Health Study. We have analyzed an additional ~1500 sleep studies from CHS participants who did...
not have Holter recordings. Thus, there is also an opportunity in the CHS dataset for studies on the relationship of heart rate variability and changes in heart rate variability over time and a huge number of clinical and demographic factors among the elderly. We also have data on the relationship of Holter-based HRV and sleep apnea patterns to the development of atrial fibrillation post-cardiac surgery and data from a study of treatment of depression in treatment-resistant depressed post-MI patients, a study of sickle cell patients, and one of heart rate variability and echo parameters in elderly African Americans. Currently we are also analyzing HRV in both premature infants as they mature and also HRV as a predictor of response to treatment in babies in the NICU and PICU, using stored 24-hour bedside ECGs.

Heart rate variability and clinical outcomes: The student will be learning about HRV methods and will investigate the relationship of HRV and outcomes in one of our datasets. Because we have clinical and demographic data on about 20,000 subjects for whom continuous ECGs from Holter recordings, sleep studies, and ICU studies are available, and also some mouse data, the student will be able to choose a project leading to a publishable result in an area of interest. The HRV Lab has enough computers and software to accommodate the needs of any interested students.

John Turk, MD, PhD
Southwest Tower, 8th Floor
Phone: 314-362-8190

Phospholipid signaling mechanisms in pancreatic islets.
Experience in mass spectrometric analysis of complex lipids is available.

H.J. Wedner, MD
5002 Steinberg Pavilion, Barnes-Jewish Hospital, North Campus
Phone: 314-454-7937 or 314-454-7377

1. Asthma care in the inner city: Students will participate in ongoing studies of the delivery of asthma care to inner-city children and adults. The emphasis will be on direct contact between the asthmatic patients and the student, along with an asthma counselor.

2. Biology of pollen and fungal allergens: Our laboratory has been characterizing the important allergic proteins from molds and pollen. The allergens are identified using skin-test-sensitive individuals, and the proteins are isolated and characterized by a combination of physiochemical and molecular biological techniques. These studies should lead to better forms of allergy immunotherapy. Students will participate in the isolation, characterization and modification of major allergens from a number of molds including Stachybotrys atra, Epicoccum nigrum, and several pollens including those from white oak and Parthenium hysterophorus, a newly recognized allergen.

Primary Care Summer Preceptorships
Since 1996 the school has sponsored a primary care preceptorship program for students during the summer between their first and second years of classes. Students select a preceptor in internal medicine, pediatrics or family practice and spend up to eight weeks observing that physician’s clinical practice. A stipend is provided to the student. Although many of the preceptors are in St. Louis, others, particularly alumni, are located in cities throughout the country.

Faculty
The Department of Medicine's general medicine teaching services at Barnes-Jewish Hospital and the Veterans Administration Medical Center (St. Louis) are under the following directors:

John P. Atkinson, MD
Samuel Grant Professor of Medicine
Chief, Division of Rheumatology

Melvin S. Blanchard, MD
Professor of Medicine
Chief, Division of Medical Education

Roberto Civitelli, MD
Sydney M. & Stella H. Schoenberg Professor of Medicine
Chief, Division of Bone and Mineral Diseases

Lynn A. Cornelius, MD
Winfred A. and Emma R. Showman Professor of Dermatology in Medicine
Chief, Division of Dermatology

Jeffrey S. Crippin, MD
Marilyn E. Bornefeld Chair in Gastrointestinal Research and Treatment
Professor of Medicine
Associate Chair for Clinical Programs

Nicholas O. Davidson, MD
John E. and Adaline Simon Professor of Medicine
Chief, Division of Gastroenterology

John F. DiPersio, MD, PhD
Virginia E. and Sam J. Golman Professor of Medicine
Chief, Division of Oncology

Bradley A. Evanoff, MD, MPH
Richard A. and Elizabeth Henby Sutter Chair in Occupational, Industrial, and Environmental Medicine
Chief, Division of General Medical Sciences

Victoria J. Fraser, MD
Adolphus Busch Professor of Medicine and Chairman

Daniel E. Goldberg, MD, PhD
David M. and Paula L. Kipnis Distinguished Professor Co-Chief, Division of Infectious Diseases
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Sr Associate Dean for Education
MD Cornell University 1995
BA University of CA Santa Barbara 1991

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MD New York University 1975

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PHD Purdue University 1978

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BS Holy Spirit Univ of Kaslik 2006
MS University of Paris 2009
PHD University of Nice 2013

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MD University of Minnesota 1968

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MD Medical University of Sth Car 1978

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BS1 Southwestern University 2008
BS Southwestern University 2008

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Instructor in Clinical Medicine (primary appointment)
MD University of Missouri 1983
BA Saint Louis University 1974

Melvin J Butler
Instructor in Clinical Medicine (primary appointment)

Anne Mobley Butler, MS, PHD
Instructor in Medicine (primary appointment)
Instructor in Surgery (Public Health Sciences)
MS Harvard University 2006
BS Emory University 2003
PHD University of North Carolina 2014

Derek E Byers, MD, PHD
Associate Professor of Medicine (primary appointment)
BS University of Oklahoma 1993
MD University of Texas Southwest 2001
PHD University of Texas Southwest 2001

Jonathan Nicholas Byrd, MD, BS1
Assistant Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 2011
BS1 Tulane University 2007

C

Galileu Cabral, MD
Associate Professor of Clinical Medicine (primary appointment)
MD School Not Listed 1964

John William Campbell, MD
Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1977
BA Washington Univ in St. Louis 1973

Jian Li Campian, PHD, MS, MD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Neurological Surgery
PHD University of Louisville 2003

MS Peking Union Medical College 2000
MD Tianjin Medical University 1997

Maria J Canizares, MD
Instructor in Clinical Medicine (Dermatology) (primary appointment)
BA Saint Louis University 1996
MD Saint Louis University 2001

Rosemary L Cannistraro, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 1992

Rebecca Goodwin Carey
Adjunct Instructor in Medicine (primary appointment)

Abigail L Carlson, MD
Instructor in Medicine (primary appointment)
BA Wellesley College 2005
MD Johns Hopkins University 2010

Kim Alan Carmichael, MD
Professor of Medicine (primary appointment)
MD Virginia College 1978

Christopher Robert Carpenter, MD
Associate Professor of Emergency Medicine in Medicine
(secondary appointment)
MD Wayne State University 1994

David B Carr, MD
Professor of Medicine (primary appointment)
Alan A and Edith L Wolff Distinguished Professor of Geriatric Medicine
Professor of Neurology
MD University of MO Columbia 1985
BA University of MO Columbia 1981

Scott Carrizales, MD
Assistant Professor of Medicine (Dermatology) (primary appointment)
BA University of Texas Austin 1992
MD UniformedServUofHealthSciences 1996

Kenneth R Carson, MD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Surgery (Public Health Sciences)
BS University of Southern Calif 1995
MD University of Southern Calif 2000

Amanda Fishback Cashen, BS1, MD
Associate Professor of Medicine (primary appointment)
BS Yale University 1995
BS1 Yale University 1995
MD Washington Univ in St. Louis 1999

Roque Castillo
Assistant Professor of Medicine (primary appointment)

Mario Castro, MD, M PH
Professor of Medicine (primary appointment)
Alan A and Edith L Wolff Distinguished Professor
Professor of Pediatrics
Professor of Radiology
BA University of MO Kansas City 1988
MD University of Missouri 1988
M PH Saint Louis University 1998

Lilibeth Maria Cayabyab-Loe, MD
Assistant Professor of Clinical Medicine (primary appointment)
BA Saint Louis University 1986
MD University of Missouri 1990

Murali M Chakinala, MD
Professor of Medicine (primary appointment)
BS Duke University 1990
MD Vanderbilt University 1994

Grant A Challen, PHD
Associate Professor of Medicine (primary appointment)
PHD University of Queensland 2006

Kari Terece Chambers, PHD
Instructor in Medicine (primary appointment)
BS Truman State University 2000
PHD Saint Louis University 2007

Philip Chan, MD
Instructor in Emergency Medicine in Medicine (Pending Dean's Approval) (primary appointment)
MD Northwestern University 2013
BA Northwestern University 2009

Kae Pyng Chang, MD
Instructor in Clinical Medicine (primary appointment)
BA Washington Univ in St. Louis 1991
MD University of Missouri 1995

Monica Chang-Panesso, MD
Assistant Professor of Medicine (primary appointment)
MD Texas Tech University 2009

Douglas Char, MD, MA
Professor of Emergency Medicine in Medicine (primary appointment)
BS Boston College 1983
MD University of Hawaii 1989
MA Boston University 1985

Siroth Charnond, MD
Instructor in Clinical Medicine (primary appointment)
BA University of MO Kansas City 1995
MD University of MO Kansas City 1995

Lewis Robert Chase, MD
Professor of Medicine (primary appointment)
BA Princeton University 1960
MD Harvard University 1964

Salman Chaudhry, MBBS
Instructor in Medicine (primary appointment)

MBBS Agha Khan University, Pakistan 2007

Qing Chen, UNKNOWN, MD, MS
Instructor in Clinical Medicine (primary appointment)
UNKNOWN School Not Listed 1983
MD Nanjing Medical University 1983
MS Nanjing Medical University 1988

Feng Chen, PHD
Associate Professor of Medicine (primary appointment)
Associate Professor of Cell Biology and Physiology
PHD University of Utah 1998
BS Fudan University 1991

Baosheng Chen, PHD
Instructor in Medicine (primary appointment)
PHD Peking Union Medical College, 2002

Chien-Huan Chen, PHD, MD
Professor of Medicine (primary appointment)
PHD Johns Hopkins University Med 1999
MD National Taiwan University 1993

David Yuan-Sou Chen, MD, PHD
Instructor in Medicine (primary appointment)
BS University of Michigan 2003
MD Washington Univ in St. Louis 2012
PHD Washington Univ in St. Louis 2012

Phyllis Chen, MD
Instructor in Clinical Medicine (primary appointment)
MD Northwestern University Med 1992

Alexander Chi Chen, MD
Associate Professor of Medicine (primary appointment)
Associate Professor of Surgery (Cardiothoracic Surgery)
MD University of MO Kansas City 2001

Jacqueline W. Chen, AB, MD
Instructor in Medicine (primary appointment)
AB Washington Univ in St. Louis 2010
MD Washington Univ in St. Louis 2014

Ying Chen, MD, PHD
Assistant Professor of Medicine (primary appointment)
MD Shanghai Medical University 1996
PHD Vanderbilt University 2004

Sara X Chen
Instructor in Medicine (primary appointment)
BS Vanderbilt University 2010

Edward C. Chen, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 2005

Steven Chih Nung Cheng, MD
Associate Professor of Medicine (primary appointment)
MD Northwestern University Med 2002
BA Northwestern University 2001

Praveen R Chenna, MBBS
Assistant Professor of Medicine (primary appointment)  
MBBS Sri Ramachandra Medical College 2005  
BS Washington Univ in St. Louis 1998

Cynthia Cherfane, MD  
Instructor in Medicine (primary appointment)  
MD St. Joseph University, Beirut 2011

Milan G Chheda, MD  
Assistant Professor of Medicine (primary appointment)  
Assistant Professor of Neurology  
MD Albert Einstein College of Med 2002

Rebecca Joy Chibnall, MD, AA  
Assistant Professor of Medicine (Dermatology) (primary appointment)  
MD University of California 2012  
BS Washington Univ in St. Louis 2007  
AA Washington Univ in St. Louis 2007

Phillip Ruben Chisholm  
Instructor in Clinical Medicine (primary appointment)

Jaebok Choi, PHD, MS, BE  
Assistant Professor of Medicine (primary appointment)  
PHD Baylor University 2006  
MS Univ of Nebraska at Omaha 2001  
BE Kyung Pook National University 1996

Courtney Darcey Chisler, MD  
Assistant Professor of Medicine (primary appointment)  
BS Northwestern University 2003  
MD Washington Univ in St. Louis 2007

Matthew Christopher, MD, PHD  
Assistant Professor of Medicine (primary appointment)  
MD Washington Univ in St. Louis 2010  
BA Saint Louis University 1993  
PHD Washington Univ in St. Louis 2010

George P Christophi, MD, PHD  
Instructor in Medicine (primary appointment)  
MD Upstate Medical University 2011  
PHD Upstate Medical University 2011

Philip Chu Pak-Yu, MD  
Instructor in Clinical Medicine (primary appointment)  
MD University of CA Los Angeles 1992  
BS California State Fresno 1986

Duck Sung Chun, MD  
Instructor in Clinical Medicine (primary appointment)

Jeffrey Peter Ciaramita  
Instructor in Clinical Medicine (primary appointment)

Thomas Michael Ciesielski, MD  
Assistant Professor of Medicine (primary appointment)  
MD Oregon Health Science Univers 2010

Vincenza Cifarelli, MS, PHD  
Assistant Professor of Medicine (primary appointment)  
MS Universita de Modena e Reggio 2005  
PHD University of Pittsburgh 2011

Matthew Aaron Ciorba, MD  
Associate Professor of Medicine (primary appointment)  
MD University of Iowa 2001

Geoffrey Cislo, MD  
MD University of Michigan 1996  
BS University of Michigan 1993

Roberto Civitelli, MD  
Sydney M and Stella H Schoenberg Professor of Medicine (primary appointment)  
Professor of Cell Biology and Physiology  
Professor of Orthopaedic Surgery  
MD University of Siena 1980  
BS University of Siena 1980

Dorothy Jean Cline, MD  
Instructor in Clinical Medicine (Dermatology) (primary appointment)  
BA University of Missouri 1973  
MD Saint Louis University 1977

William Edward Clutter, MD  
Associate Professor of Medicine (primary appointment)  
Associate Director of the House Staff Training Program, Department of Internal Medicine  
MD Ohio State University 1975  
BS Ohio State University 1972

Shari J Cohen, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
BA University of MO Kansas City 1986  
MD University of Missouri 1987

Brian G Cohn, MD  
Assistant Professor of Emergency Medicine in Medicine (primary appointment)  
MD University of Alabama 2003

Susan R Colbert-Threats, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
BS Northwestern University 1986  
MD University of Illinois 1991

Patricia L Cole, MD, MA  
Associate Professor of Clinical Medicine (primary appointment)  
MD Harvard University 1981  
BA Mount Holyoke College 1972  
MA Brown University 1975

Danita L Cole, MD  
Instructor in Clinical Medicine (primary appointment)  
BA University of MO Kansas City 1990  
MD University of MO Kansas City 1991

Roger Barto Cole, MD, MS, PHD
Sarah F Cole
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 2008
BS Rice University 1997
MS Yale University 2001
PHD Yale University 2004

Laura Ann Colletti-Mann, MD
Associate Professor of Medicine (primary appointment)
MD Boston University 1980

Kim David Colter, MD, MS
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1978
BS MO S&T (formerly UofMO Rolla) 1973
MS University of CA Berkeley 1974

Arthur Hamilton Combs, MD
Associate Professor of Clinical Medicine (primary appointment)
MD New York Medical College 1975

Daniel Horatio Cooper, MD
Associate Professor of Medicine (primary appointment)
MD Loyola University Chicago 2003
BS Washington Univ in St. Louis 1999

Matthew Cooper, PHD
Instructor in Medicine (primary appointment)
BS University of Surrey 2004
PHD University of Surrey 2008

Lynn Anne Cornelius, MD, BN
Winfred A and Emma R Showman Professor of Dermatology in Medicine (primary appointment)
MD University of Missouri 1984
BN University of Delaware 1977

Natalie Danielle Cosgrove
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)

John Bernard Costello, MD
Instructor in Clinical Medicine (primary appointment)
BA Saint Louis University 1974
MD Saint Louis University 1977

Carrie Christine Coughlin, MD
Assistant Professor of Medicine (Dermatology) (primary appointment)
Assistant Professor of Pediatrics
MD Washington Univ in St. Louis 2010
BA Yale University 2005

Martha Laurin Council, MD
Associate Professor of Medicine (Dermatology) (primary appointment)
BS Louisiana St University 2000
MD Washington Univ in St. Louis 2004

Daniel W Coyne, MD
Professor of Medicine (primary appointment)
MD Case Western Reserve Univ 1983
BA Saint Louis University 1979

Clarissa S. Craft, PHD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Cell Biology and Physiology
PHD Northwestern University 2007
BS Beloit College 2003

Johnetta M Craig, MBA, MD
Instructor in Clinical Medicine (primary appointment)
BS University of Missouri 1980
MBA University of Pennsylvania 1994
MD University of Iowa 1986

John Jeffrey Cras, MD, MS
Assistant Professor of Medicine (primary appointment)
BS Loyola College 1994
MD Georgetown University 2003
MS Georgetown University 1998

Charles Crecelius, MD, PHD
Assistant Professor of Clinical Medicine (primary appointment)
MD Saint Louis University 1984
PHD Saint Louis University 1984
BA Carleton University 1976

Zachary David Crees, MD
Instructor in Medicine (Pending Dean's Approval) (primary appointment)
MD University of Illinois 2015
BA University of Colorado 2011

Sharon Cresci, MD
Associate Professor of Medicine (primary appointment)
Associate Professor of Genetics
BS State Univ of NY Binghampton 1982
MD New York University 1986

Stephen R Crespin, MD
Associate Professor of Clinical Medicine (primary appointment)
MD Harvard University 1965
BA Harvard University 1960

Jeffrey S Crippin, MD
Professor of Medicine (primary appointment)
BS University of Notre Dame 1980
MD University of Kansas 1984

Paulina Cruz Bravo, MD
Assistant Professor of Medicine (primary appointment)
MD Universidad Automoma de Madrid 2009

Philip E Cryer, MD
Professor Emeritus of Medicine (primary appointment)
Adjunct Professor of Medicine
MD Northwestern University Med 1965
BA Northwestern University 1962

**Phillip S. Cuculich, MD**
Associate Professor of Medicine (primary appointment)
MD Vanderbilt University 2001

**Robert Culverhouse, MA, PHD**
Associate Professor of Medicine (primary appointment)
Associate Professor of Biostatistics
MA University of CA Berkeley 1987
BA Vanderbilt University 1983
PHD Washington Univ in St. Louis 1998

**Lenise Andrea Cummings-Vaughn, MD, MS**
Assistant Professor of Medicine (primary appointment)
MD Saint Louis University 2005
BS Williams College 1995
MS San Francisco St University 1998

**Robert B Cusworth, MD**
Instructor in Clinical Medicine (primary appointment)
MD University of Rochester 1974

**Ann Marie Dale, PHD**
Associate Professor of Medicine (primary appointment)
Associate Professor of Occupational Therapy
PHD Saint Louis University 2009
BS University of MO Columbia 1983

**William H Danforth, MD**
Professor of Medicine (primary appointment)
Vice Chairman and Chancellor Emeritus
BA Princeton University 1947
MD Harvard University 1951

**Erik D. Daniels, MD**
Instructor in Clinical Medicine (primary appointment)
BS Howard University 1985
MD Howard University 1989

**John S Daniels, MA, MD**
Associate Professor of Clinical Medicine (primary appointment)
BA Washington Univ in St. Louis 1970
MA University of Arkansas 1974
MD University of Arkansas 1974

**Peter G Danis**
Instructor in Clinical Medicine (primary appointment)

**Rand E Dankner, MD**
Associate Professor of Clinical Medicine (primary appointment)
BA University of Pennsylvania 1974
MD Baylor University 1978

**Maria Cristina Dans, MD**
Assistant Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 1999
BA Princeton University 1989

**Bhajan Shewaldas Dara, MD**
Instructor in Clinical Medicine (primary appointment)
MD Sindh Medical College 1987

**Lakshman Darsi, MBBS**
Assistant Professor of Medicine (primary appointment)
MBBS Guntur Medical College 1985

**Sundeep Das, MD**
Instructor in Clinical Medicine (primary appointment)
MD University College of Med Sci 1986

**Koushik Kumar Das, MD**
Assistant Professor of Medicine (primary appointment)
MD Columbia University 2016

**Carlos Colton Daughaday, MD**
Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 1971
BA Harvard University 1967

**Nicholas O Davidson, MBBS**
Professor of Medicine (primary appointment)
Professor of Developmental Biology
MBBS King's College London 1974

**John D Davidson, MD**
Professor of Clinical Medicine (primary appointment)
BA Washington Univ in St. Louis 1948
MD Washington Univ in St. Louis 1952

**Victor G Davila-Roman, MD**
Professor of Medicine (primary appointment)
Professor of Anesthesiology
Professor of Radiology
MD University of Puerto Rico 1981
BS University of Puerto Rico 1977

**Andrea Jill Davis, MSN, MD**
Instructor in Clinical Medicine (primary appointment)
MSN Arizona State University 2000
MD St George's University 2004
BS Randolph Macon College 1997

**Thomas Edward Davis**
Instructor in Clinical Medicine (primary appointment)

**Caroline Elizabeth Day, MD, M PH**
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1995
M PH San Diego St University 2005
BS University of Colorado Boulder 1990

**Lisa De Las Fuentes, MD**
Associate Professor of Medicine (primary appointment)
Associate Professor of Biostatistics
BA Stanford University 1991
MD University of Texas Southwest 1996

**Anne V Dean, MD**
Instructor in Clinical Medicine (primary appointment)
MD Loyola University 1995
BA Bowdoin College 1986

Parakkal Deepak, MBBS
Assistant Professor of Medicine (primary appointment)
MBBS Jawaharlal Institute of PostGr 2004

Angeline Diane DeiSanti, MD
Assistant Professor of Medicine (primary appointment)
BS University of MO Columbia 1998
MD University of MO Columbia 2003

Jennifer A. Delaney, MD
Instructor in Clinical Medicine (primary appointment)
BA Georgetown University 1992
MD Washington Univ in St. Louis 1997

Rowena Bayudan Delos Santos, MD
Assistant Professor of Medicine (primary appointment)
BS Creighton University 2000
MD Creighton University 2004

Bethany L Dement, MD
Instructor in Medicine (primary appointment)
MD Southeast Missouri St Univers 2001

David G. DeNardo, PhD
Associate Professor of Medicine (primary appointment)
Associate Professor of Pathology and Immunology
PHD Baylor University 2005
BS Willamette University 1999

Amber Zimmer Deptola, MD
Assistant Professor of Medicine (primary appointment)
BS Miami University 2008
MD University of Louisville 2012

Sunny Desai, UNKNOWN, MS
Instructor in Clinical Medicine (primary appointment)
UNKNOWN School Not Listed 1991
MS School Not Listed 1991

Teresa Deshields, PhD, MS
Associate Professor of Clinical Medicine (primary appointment)
Associate Professor of Clinical Psychiatry
PHD University of Georgia 1985
MS University of Georgia 1983
BA Meredith College 1981

Vladimir Novak Despotovic, MD
Assistant Professor of Medicine (primary appointment)
MD Michigan State University 2004
BS Michigan State University 2000

Siddhartha HK Devarakonda, MD
Assistant Professor of Medicine (primary appointment)
MD Indira Gandhi Medical College 2009

Michael D DeVita, MD
Assistant Professor of Medicine (primary appointment)
MD University of Wisconsin 2011

BS University of Wisconsin 2006

Michael Diamond, PhD, MD
Professor of Medicine (primary appointment)
Herbert S Gasser Professor
Professor of Molecular Microbiology
Professor of Pathology and Immunology
PHD Harvard University 1992
MD Harvard University 1994
BA Columbia College 1985

Judith A Dibble, MD
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1986

Brian K Dieckgraefe, MD, PhD
Associate Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 1988
BA University of Kansas 1982
PHD Washington Univ in St. Louis 1987

Kathryn M Diemer, MD
Professor of Medicine (primary appointment)
Assistant Dean for Career Counseling
MD University of Missouri 1985
BA University of Missouri 1984

Li Ding, PHD
Associate Professor of Medicine (primary appointment)
Associate Professor of Genetics
PHD University of Utah 1998

John F Dipersio, MD, PHD
Virginia E and Sam J Golman Professor of Medicine (primary appointment)
Professor of Pathology and Immunology
Professor of Pediatrics
MD University of Rochester 1980
PHD University of Rochester 1980
BA Williams College 1973

Richard M Divalerio, MD
Instructor in Clinical Medicine (primary appointment)
BS University of Notre Dame 1984
MD Washington Univ in St. Louis 1988

Abhinav Diwan, MD
Associate Professor of Medicine (primary appointment)
Associate Professor of Cell Biology and Physiology
MD All-India Inst of Medical Sci 1997

Martin A Docherty, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD Saint Louis University 1983
BS Edinburgh University 1978

Irl Joseph Don, MD
Associate Professor of Clinical Medicine (primary appointment)
BA Washington Univ in St. Louis 1969
James W Donnelly, MD
Instructor in Clinical Medicine (Dermatology) (primary appointment)
MD Washington Univ in St. Louis 1986
BA Northwestern University 1982

Balraj Doray, PHD
Assistant Professor of Medicine (primary appointment)
BS Southern Illinois University 1993
PHD University of Illinois 1999

Gerald W. Dorn II, MD
Philip and Sima K Needleman Professor of Medicine (primary appointment)
MD Medical University of Sth Car 1981

William H Dribben, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD University of North Carolina 1990
BA University of North Carolina 1985

Erik R Dubberke, MD, MPH
Professor of Medicine (primary appointment)
MD University of Illinois 1999
MPH Saint Louis University 2008
BA Augustaana University College 1995

James Matthew DuBois, PHD, MA, D SC
Steven J Bander Professor of Medical Ethics and Professionalism (primary appointment)
Professor of Psychological & Brain Sciences
PHD Instnl Academy of Philosophy 1992
MA University of Rhode Island 1990
BA Franciscan University Stubenv 1989
D SC University of Vienna 1997

Nicole Marie Ducharme, DOST
Instructor in Clinical Medicine (primary appointment)
DOST Univ of Health Sciences KC 2003
BS Muhlenberg College 1998

Carolyn Dufault, PHD
Instructor in Medicine (primary appointment)
Assistant Dean for Education and Technology
BS Mount Holyoke College 1997
PHD Washington Univ in St. Louis 2009

Maria C Dumadag-Sabio, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Missouri 1988
BA University of Missouri 1988

Edward Harry DuMontier
Instructor in Clinical Medicine (primary appointment)

William C Dunagan, MS, MD
Professor of Medicine (primary appointment)
BS University of Texas Austin 1978
MS University of Texas Austin 1980
MD Washington Univ in St. Louis 1983

Kirsten F Dunn, MD
Assistant Professor of Medicine (primary appointment)
MD Saint Louis University 2012
BS Harvard University 2007

Julia Passyn Dunn, MD, MS
Assistant Professor of Medicine (primary appointment)
BS Auburn University 1998
MD University of South Alabama 2002
MS Vanderbilt University 2010

Michael Joseph Durkin, MD, M PH1
Assistant Professor of Medicine (primary appointment)
MD Medical College of Wisconsin 2008
BA Illinois Wesleyan University 2004
M PH1 University of North Carolina 2015

Tiffany Biason Dy, MD
Assistant Professor of Medicine (primary appointment)
MD Univ Texas Health Science Ctr 2009
BS University of Miami 2005

E

William Charles Eades Jr, BEE
Associate Professor of Medicine (primary appointment)
BEE MO S&T (formerly UofMO Rolla) 1982

Dayna S Early, MD
Professor of Medicine (primary appointment)
MD University of Missouri 1990
BA University of Missouri 1986

Royal J Eaton, MD
Instructor in Clinical Medicine (primary appointment)
BA University of Missouri 1960
MD University of Missouri 1964

Charmaine E. Edwards, MD
Instructor in Clinical Medicine (primary appointment)
MD Howard University 1992
BS Alcorn State University 1987

John R. Edwards, PHD
Associate Professor of Medicine (primary appointment)
PHD Columbia University 2003

Stilianos Efstratiadis
Assistant Professor of Clinical Medicine (primary appointment)

Russell E Eggebrecth, MD
Associate Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1971
BS University of Illinois 1967

Ali A Ehsani, MD
Professor of Medicine (primary appointment)
MD Tehran University 1965

Zamir Eidelman, MD
Associate Professor of Clinical Medicine (primary appointment)
MD School Not Listed 1987

Seth A Eisen, MS, MD
Professor of Medicine (primary appointment)
MS Harvard University 1989
MD Washington Univ in St. Louis 1966
BA Reed College 1963

Linda G Eisenberg, PHD
Assistant Professor of Medicine (primary appointment)
PHD University of North Carolina 1982
BA University of Tennessee 1977

Lamice R. El-Kholy, MS, UNKNOWN
Instructor in Clinical Medicine (primary appointment)
MS School Not Listed 1986
UNKNOWN School Not Listed 1982

John Ellena, MD
Associate Professor of Clinical Medicine (primary appointment)
BS Southern Illinois University 1980
MD Southern Illinois University 1983

Charlene Ann Ellsworth, PHD, MD
Instructor in Clinical Medicine (primary appointment)
PHD Mass Inst of Technology (MIT) 2004
MD Washington Univ in St. Louis 2008

Amged Eltahir, AB1, MD
Instructor in Clinical Medicine (primary appointment)
AB1 Saint Louis University 2006
MD University of Khartoum 1985

Jill Elizabeth Elwing, MD
Assistant Professor of Medicine (primary appointment)
MD University of MO Columbia 2000
BS University of MO Columbia 1996

James Michael Epstein, MD
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1969
BS University of Notre Dame 1965

Gerome V Escota, MD
Assistant Professor of Medicine (primary appointment)
MD University of the Philippines 2004
BS University of the Philippines 1999

Neil A Ettinger, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1983
BS Vanderbilt University 1979

Bradley A Evanoff, M PH, MD
Richard A and Elizabeth Herby Sutter Professor of Occupational, Industrial, and Environmental Medicine in Medicine (primary appointment)

Assistant Dean for Clinical and Translational Research
Professor of Occupational Therapy
M PH University of Washington 1993
BA Cornell University 1982
MD Washington Univ in St. Louis 1986

Carol Jane Evers, MD
Instructor in Clinical Medicine (primary appointment)
MD Brown University 1977
BA Brown University 1973

Gregory A Ewald, MD
Professor of Medicine (primary appointment)
MD Northwestern University 1989
BS University of Illinois 1985

F

Elisa Fabbrini, MD, PHD
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MD La Sapienza University 1998
PHD La Sapienza University 2006

Mitch N Faddis, PHD, MD
Professor of Medicine (primary appointment)
PHD Washington Univ in St. Louis 1993
BS Kansas State University 1985
MD Washington Univ in St. Louis 1993

Akinrinola Fatoki, MS
Instructor in Clinical Medicine (primary appointment)
BS School Not Listed 1982
MS School Not Listed 1989

Carol Faulk, MD
Instructor in Medicine (primary appointment)
MD Louisiana St University 2014

Todd A Fehniger, PHD, MD
Associate Professor of Medicine (primary appointment)
BS State Univ of NY Buffalo 1994
PHD Ohio State University 2000
MD Ohio State University 2002

Francesca Ferraro, MD, PHD
Instructor in Medicine (primary appointment)
MD University of Parma 2004
PHD University of Parma 2014

Herman L Ferrell, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Arkansas 1975
BS University of Arkansas 1973

Brian N. Finck, PHD, MS
Associate Professor of Medicine (primary appointment)
BS University of Illinois 1994
PHD University of Illinois 2000
MS University of Illinois 1996

Lewis Conrad Fischbein, MD
Associate Professor of Clinical Medicine (primary appointment)
BA University of Rochester 1970
MD Washington Univ in St. Louis 1974

Peter Uwe Fischer, PHD, MS
Professor of Medicine (primary appointment)
PHD University of Hamburg 1996
MS Free University of Berlin 1991

Norman Fishman, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD School Not Listed 1974
BA School Not Listed 1970

Sean C. Fitzmaurice, MD
Instructor in Emergency Medicine in Medicine (primary appointment)
MD Saint Louis University 1995
BS Georgetown University 1989

Jaquelyn F Fleckenstein, MD
Professor of Medicine (primary appointment)
MD Saint Louis University 1985
BA Cornell University 1981

James M Fleckenstein, MD
Professor of Medicine (primary appointment)
Professor of Molecular Microbiology
BS Xavier University 1981
MD Saint Louis University 1985

Avegail Gascon Flores, MD
Assistant Professor of Medicine (primary appointment)
MD University of Pittsburgh 2007

Emily Fondahn, MD
Assistant Professor of Medicine (primary appointment)
MD Northwestern University 2008

Luigi Fontana, MD, PHD
Professor of Medicine (primary appointment)
MD University of Verona 1994
PHD University of Padova 2004

Randi Elizabeth Foraker, PHD, MA
Associate Professor of Medicine (primary appointment)
PHD University North Carolina 2010
MA University of Iowa 1999
BA University of Iowa 1997

Glennon Joseph Fox, MD
Instructor in Clinical Medicine (primary appointment)
MD University of MO Columbia 1984

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Adjunct Assistant Professor of Medicine (primary appointment)
PHD University of MO St Louis 2013
BN Webster University 2003
MSN Saint Louis University 2004

Victoria J Fraser, MD

Adolphus Busch Professor of Medicine (primary appointment)
Head of the Department of Internal Medicine
MD University of MO Columbia 1983
BS William Woods College 1978

James Matthew Freer, MD
Assistant Professor of Medicine (primary appointment)
BS Truman State University 1998
MD University of MO Columbia 2002

Deborah Frenchie, MD
Instructor in Clinical Medicine (primary appointment)
BA Washington Univ in St. Louis 1984
MD Washington Univ in St. Louis 1993

Ashley Elizabeth Frith, MD
Assistant Professor of Medicine (primary appointment)
BS Christian Brothers University 2004
MD University of AR Med Sciences 2008

Cassandra Delores-Lamar Fritz, MD
Instructor in Medicine (primary appointment)
BS University of Kansas 2010
MD University of Chicago 2015

Brian R. Froelke, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD University of Cincinnati 2002

Michael Paul Fuller, MD
Associate Professor of Clinical Medicine (primary appointment)
BA Brigham Young University 1990
MD University of Utah 1994

Brian M Fuller, MD
Associate Professor of Emergency Medicine in Medicine (primary appointment)
Associate Professor of Anesthesiology
MD University of Alabama 2003
BA University of Alabama 1998

Suzanne Furesz
Instructor in Clinical Medicine (primary appointment)

G

Gary Gaddis, PHD, MD
Professor of Emergency Medicine in Medicine (Pending Executive Faculty Approval) (primary appointment)
PHD Indiana State University 1984
MD Indiana University School of M 1986

Brian F Gage, MS, MD
Professor of Medicine (primary appointment)
BS Stanford University 1984
MS Stanford University 1995
MD University of California 1988

Daniel Gaitan, MD
Associate Professor of Clinical Medicine (primary appointment)
<table>
<thead>
<tr>
<th>Name</th>
<th>Title and Institution Details</th>
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<tbody>
<tr>
<td>Arthur H Gale, MD</td>
<td>Associate Professor of Clinical Medicine (primary appointment)</td>
</tr>
<tr>
<td></td>
<td>MD University of Missouri 1959</td>
</tr>
<tr>
<td></td>
<td>BS Washington Univ in St. Louis 1955</td>
</tr>
<tr>
<td>Jane M. Garbutt, MHS, MBCHB</td>
<td>Professor of Medicine (primary appointment)</td>
</tr>
<tr>
<td></td>
<td>Professor of Pediatrics</td>
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<tr>
<td></td>
<td>MHS University of Toronto 1988</td>
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<td></td>
<td>MBCHB Bristol University 1977</td>
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<td>John A Garcia, MD, MBA</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
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<td>BA Carleton College 1985</td>
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<td>Jacquelyn B Garrett, MD</td>
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<td>Francisco J Garriga, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
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<td>Felicitas Z Gatachalian, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
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<td>Joseph H Gatewood, MD</td>
<td>Instructor in Emergency Medicine in Medicine (primary appointment)</td>
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<td>William M Gee, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
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<td>Richard A Geisman, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
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<td>Edward M Geltman, MD</td>
<td>Professor of Medicine (primary appointment)</td>
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<td>Ige A George, MBBS</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
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<td>Armin Ghobadi, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
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<td>Matthew John Gibfried, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
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<td>Stephen James Giddings, PHD, MD</td>
<td>Associate Professor of Medicine (primary appointment)</td>
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<td>Thomas J Girard, PHD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
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<td>Margo Renee Girardi, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
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<td>Gardar T Gislason</td>
<td>Adjunct Instructor in Medicine (primary appointment)</td>
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<td>Josephine Lee Aguhob Glaser</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
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<tr>
<td>Marye J Gleva, MD</td>
<td>Professor of Medicine (primary appointment)</td>
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<td>MD University of Washington 1988</td>
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<tr>
<td>Andrew S Gold, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
</tr>
<tr>
<td></td>
<td>MD University of Iowa 1989</td>
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<tr>
<td>Gregory I Goldberg, MA, PHD</td>
<td>Professor of Medicine (Dermatology) (primary appointment)</td>
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<td>Professor of Biochemistry and Molecular Biophysics</td>
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<td>MA Moscow State University 1969</td>
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<td>PHD Weizmann Institute of Science 1977</td>
</tr>
<tr>
<td>Anne Carol Goldberg, MD</td>
<td>Professor of Medicine (primary appointment)</td>
</tr>
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<td></td>
<td>MD University of Maryland 1977</td>
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<tr>
<td>Daniel E Goldberg, MD, PHD</td>
<td>David M and Paula L Kipnis Distinguished Professor (primary appointment)</td>
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<td>Professor of Molecular Microbiology</td>
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<td>MD Washington Univ in St. Louis 1985</td>
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<td>PHD Washington Univ in St. Louis 1985</td>
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<td>Seth Goldberg, MD</td>
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</table>
Associate Professor of Medicine (primary appointment)
BS University of South Florida 1999
MD University of South Florida 2003

Benjamin M Goldstein, MD
Associate Professor of Clinical Medicine (primary appointment)
BA Washington Univ in St. Louis 1960
MD Washington Univ in St. Louis 1964

Felicia Ismay Gomez, PHD
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BS University of Puerto Rico 2004
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BA Duke University 1966

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BA Washington Univ in St. Louis 1965
MD Washington Univ in St. Louis 1970

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PHD Washington Univ in St. Louis 2009

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MD Washington Univ in St. Louis 1999
BS Univ of Wisconsin Madison 1994

Sandra S Hoffmann, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Kansas 1976
BA University of Kansas 1972

Melissa Louise Hollie
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Christopher Vincent Holthaus, MD
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MD Saint Louis University 2000

Michael J Holtzman, MD
Selma and Herman Seldin Professor of Medicine (primary appointment)
Professor of Cell Biology and Physiology
MD Northwestern University 1975
BA Northwestern University 1971

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Hitoshi Honda
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BA Dartmouth College 1964
MD Saint Louis University 1968

Barbra A Horn, MD
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BA Clark University 1975
MD Washington Univ in St. Louis 1982

Ian Kerst Hornstra, MD, PHD
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MD University of MO Kansas City 1986
PHD University of Florida 1993
BA University of MO Kansas City 1985

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PHD Northeastern University 2008

Jianghui Hou, PHD, MS
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PHD Edinburgh University 2003
BS Nanjing University 1999
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MA Harvard University 1974
BS Mass Inst of Technology (MIT) 1971
PHD Harvard University 1978

Stacey L House, MD, PHD
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MD University of Cincinnati 2007
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BS Yale University 1999

Jacqueline Howard, UNKNOWN
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UNKOWN School Not Listed 1995

Randall A Howell, MD
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MD Kansas State University 1978
BS Kansas State University 1974

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James J Hsieh, PHD, MD
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PHD John Hopkins University 1995
MD Taipei Medical University 1990

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MS Tsinghua University, China 1975
PHD University of Utah 1986

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BS Williams College 2003
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BS Beijing Medical University 2000
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BS Stanford University 2002

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PHD Harvard University 2007
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BS Southeast Missouri St Univers 1978

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MD Yale University 1991

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MD University of MO Columbia 1976

Warren Isakow, MD
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PHD University of Texas Southwest 2000
BS University of Houston 1993

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BS Washington Univ in St. Louis 1993
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ME Carnegie Mellon University 1979
BS Washington Univ in St. Louis 1977
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BA Vanderbilt University 1965
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MD Saint Louis University 1985
BS Rhodes College 1981

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MD Washington Univ in St. Louis 2005
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MD University of Iowa 1988
BS University of Iowa 1984
JD Saint Louis University 2004

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Associate Professor of Medicine (primary appointment)
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PHD Northwestern University 1998
BA University of California 1990

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Instructor in Clinical Medicine (primary appointment)
BA University of Texas Austin 1990
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Instructor in Medicine (primary appointment)
BS University of Chicago 2000
MD University of Chicago 2008
BA University of Chicago 2000
PHD University of Chicago 2006

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MA Washington Univ in St. Louis 1990
BA Washington Univ in St. Louis 1972
PHD Washington Univ in St. Louis 1993

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Assistant Professor of Medicine (primary appointment)
BS Michigan State University 1991
PHD Vanderbilt University 1997

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MS University of Texas Austin 1990
MD University of Vermont 2000
PHD University of Texas Austin 1992

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MD Washington Univ in St. Louis 2016

Xuntian Jiang, PHD
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PHD China Pharmaceutical Univ 1992

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Assistant Professor of Clinical Medicine (primary appointment)
MD University of Illinois 1967

Tanner Michael Johanns, PHD, MD
Instructor in Medicine (primary appointment)
PHD University of Minnesota 2010
BS University of Saint Thomas 2002
MD University of Minnesota 2012

Eric Keith Johnson, MD
Assistant Professor of Medicine (primary appointment)
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Reuben D Johnson, BS1, MD, BE
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BS1 Morehouse College 1996
MD Howard University College of M 2002
BE Georgia Tech 1996

Heather Jones, MD
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BS Michigan State University 2007
MD University of Texas Galveston 2011

Amy M Joseph, MD
Professor of Medicine (primary appointment)
MD Vanderbilt University 1986
BA Johnston Community College 1977

Barbara Jost, MD, MS
Instructor in Clinical Medicine (primary appointment)

MD Saint Louis University 1997
MS Northwestern University 1995
BS University of Missouri 1993

Randall S Jotte, MD
Associate Professor of Emergency Medicine in Medicine (primary appointment)
MD Harvard University 1987

Karen Ellen Joynt Maddox, MD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Social Work
MD Duke University 2004
BA Princeton University 2000

K

Brad S Kahl, MD
Professor of Medicine (primary appointment)
MD Tufts University 1994
BS University of Wisconsin-Madison 1989

Caroline Holleck Kahle, MD
Assistant Professor of Medicine (primary appointment)
MD University of North Carolina 2006

Vinay Gopal Kamat, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Pennsylvania 1994

Sona Sharad Kamat
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Deborah Shipley Kane, MD
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Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1952
BA Washington Univ in St. Louis 1951

Andrew M. Kates, MD
Professor of Medicine (primary appointment)
BS Tufts University 1990
MD Tufts University 1994

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Instructor in Medicine (primary appointment)
BS Kakatiya Medical College 2004
MS Eastern Kentucky University 2010
MD Saint Louis University 2011
David A Katzman, MD  
Instructor in Clinical Medicine (primary appointment)  
BA Brown University 1986  
MD Saint Louis University 1991  

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Assistant Professor of Medicine (primary appointment)  
PHD Washington St University 2006  
BS Emory University 1998  
MD Washington Univ in St. Louis 2006  

Charles Kaufman, PHD, MD  
Assistant Professor of Medicine (primary appointment)  
Assistant Professor of Developmental Biology  
PHD University of Chicago 2003  
BA Washington Univ in St. Louis 1997  
MD University of Chicago 2005  

Robert L Kaufman, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
BA Washington Univ in St. Louis 1959  
MD Washington Univ in St. Louis 1963  

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BA University of MO St Louis 1978  
BA University of MO St Louis 1978  
PHD Saint Louis University 1985  

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MD Kaunas University of Medicine 1998  

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Instructor in Medicine (primary appointment)  
PHD University of Athens 2007  
BS University of Athens 2002  

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Instructor in Medicine (primary appointment)  
BS University of Tulsa 2005  
MD Johns Hopkns University Medic 2009  

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BS University of Illinois 1978  
MD University of Illinois 1982  

Charlotte J Kennedy, MD, PHD  
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MD Washington Univ in St. Louis 1992  
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PHD Washington Univ in St. Louis 1992  

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BS Saint Josephs University 2001  
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MPH North Carolina School of the 1988  

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MD Saint Louis University 1993  

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AS Long Beach City College 1976  
BA University of California 1985  

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BS Saint Louis University 1980  

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BA University of Kansas 1987  
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PHD Drexel University 2005  
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MD Northwestern University 2009  
BS University of Chicago 2005  

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Assistant Professor of Anesthesiology  
Assistant Professor of Pathology and Immunology  
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PHD University of Kansas 2004
BS Drury College 1999
MS University of Kansas 2001

Nigar Kirmani, MD
Professor of Medicine (primary appointment)
MD King Edward Medical College 1973

Sameer M. Kirtane, MD
Instructor in Clinical Medicine (primary appointment)
MD Jefferson Medical College 2008

Michael K Klebert, PHD, MSN, BN
Instructor in Medicine (primary appointment)
PHD University of MO St Louis 2008
MSN University of Texas Austin 1987
BA Southern Illinois University 1979
BN Southern Illinois University 1981

Robert E Kleiger, MD
Professor of Medicine (primary appointment)
MD Harvard University 1960
BA Yale University 1956

Samuel Klein, MD, MS
Danforth Professor of Medicine (primary appointment)
Professor of Cell Biology and Physiology

MD Temple University 1979
BA Brandeis University 1974
MS Mass Inst of Technology (MIT) 1984

Robyn Sue Klein, MD, PHD, MS
Professor of Medicine (primary appointment)
Professor of Neuroscience
Professor of Pathology and Immunology
Vice Provost and Assoc Dean of Graduate Medical Education
BA Barnard College 1985
MD Albert Einstein College of Med 1993
PHD Albert Einstein College of Med 1993
MS Albert Einstein College of Med 1990

Linda Marie Klutho, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Missouri 1984
BA Washington Univ in St. Louis 1980

Paula J Knapp-Baker
Instructor in Clinical Medicine (primary appointment)

Eric Knoche, MD
Assistant Professor of Medicine (primary appointment)
BS Davidson College 2001
MD Washington Univ in St. Louis 2006

Kathryn Knoop, PHD
Instructor in Medicine (primary appointment)
BS Drake University 2006
PHD Emory University 2011

Carolyn Koenig, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 2002

Adam C Koertner
Instructor in Clinical Emergency Medicine in Medicine (primary appointment)

Nita Kohli, MD, M PH
Assistant Professor of Medicine (Dermatology) (Pending Executive Faculty Approval) (primary appointment)
MD Louisiana St University 2004
BS University of New Orleans 2000
BA University of New Orleans 2000
M PH Louisiana St University 2004

Ismail Kola, PHD, UNKNOWN
Adjunct Professor of Medicine (primary appointment)
BS Rhodes College 1982
PHD School Not Listed 1985
UNKNOWN Rhodes College 1982

Marin H Kollef, MD
Professor of Medicine (primary appointment)
MD University of Rochester 1983
BS US Military Academy 1979

Hermann M Koller, MD
Instructor in Medicine (primary appointment)
BS Stanford University 1974
MD Washington Univ in St. Louis 1978

Sri Devi Kolli, MBBS
Instructor in Clinical Medicine (primary appointment)
MBBS Guntur Medical College 1989

Mary E. Koly, MD
Instructor in Clinical Medicine (primary appointment)
MD University of MO Kansas City 1995
BA University of MO Kansas City 1995

Kevin L Konzen, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD University of Illinois 1984
BA University of Notre Dame 1980

Robert G Kopitsky, MD
Assistant Professor of Clinical Medicine (primary appointment)
BS Emory University 1978
MD Duke University 1982

Kevin Marc Korenblat, MD
Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 1996

Phillip E Korenblat, MD
Professor of Clinical Medicine (primary appointment)
MD University of Arkansas 1960
BA University of Arkansas 1957

Stuart A Kornfeld, MD
David C and Betty Farrell Professor of Medicine (primary appointment)
Professor of Biochemistry and Molecular Biophysics
BA Dartmouth College 1958
MD Washington Univ in St. Louis 1962

Alex H Kosloff, MD
Instructor in Clinical Medicine (primary appointment)
BS Washington Univ in St. Louis 1975
MD Saint Louis University 1980

Sandor J Kovacs, MS, PHD, MD
Professor of Medicine (primary appointment)
Adjunct Professor of Physics
Professor of Biomedical Engineering
Professor of Cell Biology and Physiology
MS California Institute Technolo 1972
PHD California Institute Technolo 1977
BS Cornell University 1969
MD University of Miami 1979

Attila Kovacs, MD
Associate Professor of Medicine (primary appointment)
BS School Not Listed 1981
MD Semmelweis University of Med 1985

Mark S Krasnoff, MD
Instructor in Clinical Medicine (primary appointment)
BA Amherst College 1987
MD Johns Hopkns University Medic 1991

Ronald J Krone, MD
Professor of Medicine (primary appointment)
John E Simon Scholar in Medicine
BS University of Michigan 1962
MD University of Chicago 1966

Elaine Susan Krul, PHD
Adjunct Associate Professor of Medicine (primary appointment)
BS McGill University 1977
PHD McGill University 1982

Thomas Kuciejczyk-Kernan, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 1986
BS University of Illinois 1982

Ralph F Kuhlman, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD University of Illinois 1964

Frederick Matthew Kuhlmann, MD
Assistant Professor of Medicine (primary appointment)
MD Emory University 2002
BS Emory University 1998

Anthony Kulczycki Jr, MD
Associate Professor of Medicine (primary appointment)
Associate Professor of Molecular Microbiology
MD Harvard University 1970
BA Princeton University 1966

Hrishikesh Satish Kulkarni, MBBS
Instructor in Medicine (Pending Dean’s Approval) (primary appointment)
MBBS Seth G.S. Medical College 2009

Robin A. Kundra, BS1, MD, PHD
Instructor in Clinical Medicine (primary appointment)
BS University of Georgia 1992
BS1 University of Georgia 1992
MD Washington Univ in St. Louis 2000
PHD Washington Univ in St. Louis 2000

David I. Kuperman, MD
Instructor in Clinical Medicine (primary appointment)
BA Hendrix College 1997
MD University of Arkansas 2001

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Professor of Medicine (primary appointment)
MEE Princeton University 1980
BS1 Mass Inst of Technology (MIT) 1979
MD New York Medical College 1984
BS Mass Inst of Technology (MIT) 1979

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Associate Professor of Medicine (primary appointment)
MD Ohio State University 2006
BS University of Utah 2002

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Assistant Professor of Medicine (primary appointment)
DOST Chicago Coll of OsteopathicMed 2009
BS Univ of IL -Urbana-Champaign 2005
BA Univ of IL -Urbana-Champaign 2005

George B Kyei, MD, MS, PhD
Assistant Professor of Medicine (primary appointment)
MD University of Ghana Medical Sc 1998
MS University of Ghana Medical Sc 2003
PHD University of New Mexico 2007

Albert Max Lai, M PHIL, MS, PHD, MA
Associate Professor of Medicine (primary appointment)
BS Columbia University 2000
M PHIL Columbia University 2005
MS Columbia University 2001
PHD Columbia University 2007
MA Columbia University 2004

Roop Lal, MS
Instructor in Clinical Medicine (primary appointment)
MS Osmania Medical College 1971

Michael A. Lane, MD, MS
Assistant Professor of Medicine (primary appointment)
MD Drexel University 2004
BA Colgate University 1995
MS John Hopkins University 2000

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Assistant Professor of Medicine (primary appointment)
BA Northwestern University 2004
MD University of Illinois Chicago 2009

Gregory Mark Lanza, MS, MD, PHD
Oliver M Langenberg Distinguished Professor of Science and Practice of Medicine (primary appointment)
James R Hornsby Family Professor in Biomedical Sciences
Professor of Biomedical Engineering
BA Colby College 1975
MS University of Georgia 1978
MD Northwestern University 1992
PHD University of Georgia 1981

Gina N LaRossa, MD
Assistant Professor of Medicine (primary appointment)
MD Yale University 2007
BS Yale University 2001

Shane Joseph LaRue, MD
Assistant Professor of Medicine (primary appointment)
MD Medical College of Wisconsin 2005

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Professor of Medicine (primary appointment)
Professor of Surgery (Cardiothoracic Surgery)
MD University of Connecticut 1983
BA Drew University 1975
PHD Saint Louis University 1979

Steven A Lauter, MD
Associate Professor of Medicine (primary appointment)
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Assistant Professor of Medicine (primary appointment)
Assistant Professor of Developmental Biology
PHD Washington Univ in St. Louis 2008
MD Washington Univ in St. Louis 2008
BS University of Rochester 2001

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Professor of Medicine (primary appointment)
BA Temple University 1972
MD Temple University 1976

Steven J Lawrence, MS, MD
Associate Professor of Medicine (primary appointment)
BS Rose Hulman Institute 1992
MS University of London 2004
MD Washington Univ in St. Louis 1997

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BS Washington Univ in St. Louis 1979
MD Saint Louis University 1983

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MD University of Iowa 2006
BA University of Iowa 2002

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BS Knox College 2003
PHD University of North Carolina 2009
MD University of North Carolina 2011

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BA Texas Tech University 1977
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Professor of Medicine (primary appointment)
MD University of Tenn Memphis 1988
BA1 University of Tennessee 1984
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Associate Professor of Pathology and Immunology
PhD1 University of Chicago 1995
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MD1 University of Chicago 1998
BA Wittenberg University 1990
MD University of Chicago 1998

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BA Washington Univ in St. Louis 1991

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MD Washington Univ in St. Louis 1978

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MD Shanghai Medical University 1988
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MD Southeast U Medical School 1995
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MD Univ of Health Sciences KC 1970

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MD National Taiwan University 1999

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MD University of Iowal 1994
BA Harvard University 1990

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BS University of Illinois 2003

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MD State University of New York 1977

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Professor of Medicine (primary appointment)
MD National Autonomous U of Mex 1980

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BA University of MO St Louis 1971

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Instructor in Medicine (primary appointment)
MD Washington Univ in St. Louis 2013

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Assistant Professor of Medicine (primary appointment)
MD Saint Louis University 2009

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Assistant Professor of Medicine (primary appointment)
BA Washington Univ in St. Louis 2003
MD University of MO Columbia 2008

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MS Shanghai Medical University 1987
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Instructor in Medicine (primary appointment)  
MS Southeast Missouri St Univers 1999  
BS School Not Listed 1986  
PHD Washington Univ in St. Louis 2005

Lin Liu, PHD, A, BAS  
Instructor in Medicine (primary appointment)  
PHD Huazhong University of Science 2011  
A University of Texas Southwest 2015  
BAS Huazhong University of Science 2005

Adam Edward Locke, PHD  
Assistant Professor of Medicine (primary appointment)  
PHD Emory University 2010  
BA Lawrence University 2003

Irfan J Lodhi, PHD, MS  
Assistant Professor of Medicine (primary appointment)  
PHD University of Michigan 2007  
MS Wayne State University 1996  
BS University of Michigan 1993

Beverly A Logan-Morrison, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 1982  
BA Webster University 1976

Andrea Loiselle, M PH, MD  
Assistant Professor of Medicine (primary appointment)  
M PH California State University 1999  
MD Drexel University 2005  
BS University of California 1995

Gregory D Longmore, MD, MS  
Professor of Medicine (primary appointment)  
Professor of Cell Biology and Physiology  
MD McGill University 1983  
BS University of Western Ontario 1977  
MS University of Toronto 1979

Dwight C Look, MD  
Professor of Medicine (primary appointment)  
MD University of MO Kansas City 1985  
BA University of MO Kansas City 1985

James F Loomis Jr, MBA, MD  
Instructor in Clinical Medicine (primary appointment)  
MBA Washington Univ in St. Louis 1997  
BA Hendrix College 1981  
MD University of Arkansas 1985

Herbert Lubowitz, MD  
Associate Professor of Clinical Medicine (primary appointment)  
BA Clark University 1954  
MD Washington Univ in St. Louis 1958

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Professor Emeritus of Medicine (primary appointment)  
Professor Emeritus of Psychiatry  
BS School Not Listed 1957  
MBBS University of Adelaide 1963

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Professor of Medicine (primary appointment)  
Mabel Dorn-Reeder Distinguished Professor of the History of Medicine  
MA Johns Hopkins University 1971  
MD Johns Hopkins University 1973  
BA Harvard University 1968

Lauren Michelle Ludwig Lee, MD  
Instructor in Clinical Medicine (primary appointment)  
MD University of MO Kansas City 2008

Susan L Luedke, MD  
Instructor in Clinical Medicine (primary appointment)  
MD University of Rochester 1972

Barbara B Lutey, MD, MLS  
Assistant Professor of Medicine (primary appointment)  
MD University of Iowa 1999  
MLS Indiana University Bloomington 1983  
BA Indiana University Bloomington 1982

John P Lynch, MD  
Professor of Medicine (primary appointment)  
MD Georgetown University 1989  
BA Saint Louis University 1983

Christopher Raymond Lynch  
Instructor in Clinical Medicine (primary appointment)

Alan P Lyss, MD  
Associate Professor of Clinical Medicine (primary appointment)  
BA Washington Univ in St. Louis 1972  
MD Washington Univ in St. Louis 1976

Carl A Lyss, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
BA Washington Univ in St. Louis 1952  
MD Washington Univ in St. Louis 1956  
BS Washington Univ in St. Louis 1952

Liang Ma, PHD  
Associate Professor of Medicine (Dermatology) (primary appointment)  
Associate Professor of Developmental Biology  
PHD University of CA Los Angeles 1995  
BA University of CA Berkeley 1989

Cynthia Xiuguang Ma, MD, PHD  
Professor of Medicine (primary appointment)  
MD Beijing Medical University 1990  
PHD University of Cincinnati 1997

Ningning Ma, MD  
Instructor in Medicine (primary appointment)  
MD Case Western Reserve Univ 2013
BA Washington Univ in St. Louis 2009

**Jessica E Ma, MD**
Instructor in Medicine (primary appointment)
MD Texas A&M University 2014

**Hongming Ma, PHD, MS**
Instructor in Medicine (primary appointment)
BA Qufu Normal University 1993
PHD Ocean University of China, Qin 2004
MS Fudan University 1996

**Julie Kathleen MacPhee, MD**
Instructor in Clinical Medicine (primary appointment)
BS Trinity College 2003
MD Albert Einstein College of Med 2008

**Thomas M Maddox, MD, MS**
Professor of Medicine (primary appointment)
BA Rice University 1993
MD Emory University 1999
MS Harvard University 2007

**Blair B Madison, PHD**
Assistant Professor of Medicine (primary appointment)
PHD University of Michigan 2005
BS Washington Univ in St. Louis 1998

**William Edwin Magee, MD**
Associate Professor of Clinical Medicine (primary appointment)
MD Duke University 1950

**Leonard B Maggi Jr, PHD, BA1**
Assistant Professor of Medicine (primary appointment)
PHD Saint Louis University 2001
BA Cornell College 1995
BA1 Cornell College 1995

**Jambunathan Mahadevan**
Instructor in Clinical Medicine (primary appointment)

**Christopher A Maher, PHD**
Associate Professor of Medicine (primary appointment)
Assistant Director of The Genome Institute
PHD Stony Brook School of Medicine 2006

**Nicole Maher, PHD**
Assistant Professor of Medicine (primary appointment)
PHD Case Western Reserve Univ 2007
BA Ithaca College 1998

**Mohamed Mahjoub, PHD**
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Cell Biology and Physiology
PHD Simon Fraser University 2007
BS Simon Fraser University 2002

**Robert John Mahoney, MD**
Associate Professor of Medicine (primary appointment)
BA Princeton University 1993
MD Washington Univ in St. Louis 1997

**Elaine Michelle Majerus, MD, PHD**
Professor of Medicine (primary appointment)
Professor of Cell Biology and Physiology
MD Saint Louis University 1998
BS Washington Univ in St. Louis 1986
PHD Washington Univ in St. Louis 1994
BA Washington Univ in St. Louis 1986

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Professor of Medicine (primary appointment)
MD Univ of Panama School of Med 1984

**Mohsin Ilyas Malik, MBBS**
Instructor in Clinical Medicine (primary appointment)
MBBS Army Medical College 1999

**Andrew F. Malone, MBCHB1**
Assistant Professor of Medicine (primary appointment)
BA Trinity College Dublin 2000
MBCHB1 Royal College of Surgeons 2005

**Kartik Mani, MBBS**
Assistant Professor of Medicine (primary appointment)
MBBS Delhi University 1998

**Shivaprasad Gowda Manjappa, MBBS, MD**
Instructor in Clinical Medicine (primary appointment)
MBBS Medical College of India 2004
MD University of Illinois 2011

**Caroline Mann, MD, MS**
Associate Professor of Medicine (Dermatology) (primary appointment)
MD Indiana University Bloomington 1993
MS Sarah Lawrence College 1988
BS Indiana University Bloomington 1986

**Douglas L. Mann, MD**
Tobias and Hortense Lewin Professor of Medicine (primary appointment)
Professor of Cell Biology and Physiology
MD Temple University 1979
BA Lafayette College 1973

**Sarah K Margolis, MD**
Associate Professor of Clinical Medicine (primary appointment)
MD State University of New York 1989
BA Barnard College 1984

**Jonas Marschall, MD**
Adjunct Assistant Professor of Medicine (primary appointment)
MD University of Basel 1996

**Jay Phillips Marshall II, MD**
Assistant Professor of Clinical Medicine (primary appointment)
BA De Paul University 1968
MD University of Missouri 1972

**Ann G Martin, MD**
John T. Milliken Department of Medicine (07/17/18)

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MD Case Western Reserve Univ 1981
BS University of Notre Dame 1977

Thomas F Martin, MD
Associate Professor of Clinical Medicine (primary appointment)
BS Saint Louis University 1961
MD Saint Louis University 1965

Wade H Martin III, MD
Associate Professor of Medicine (primary appointment)
BA University of Kansas 1973
MD University of Kansas 1977

Nathan Russell Martin, MD
Assistant Professor of Medicine (primary appointment)
BA University of Pennsylvania 2001
MD University of Texas Southwest 2005

Jerald Arthur Maslanko, MD
Instructor in Clinical Medicine (primary appointment)
BS University of Illinois 1990
MD Washington Univ in St. Louis 1994

Mary Vest Mason, MBA, MD
Instructor in Clinical Medicine (primary appointment)
MBA Washington Univ in St. Louis 1999
BS University of Illinois 1990
MD Washington Univ in St. Louis 1994

Joan Alice Mass, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD Temple University 1977
BA Washington Univ in St. Louis 1971

Stanley Mathew, MBBS
Instructor in Clinical Medicine (primary appointment)
MBBS Kerala University 1991

Anthony J-P Mattaline, DOST
Assistant Professor of Clinical Medicine (primary appointment)
DOST School Not Listed 1985
BS Northeast Missouri St Univrsity 1981
BA St Edwards University 1979

Caline Mattar, MD
Assistant Professor of Medicine (primary appointment)
MD American University of Beirut 2010
BS American University of Beirut 2006

Henry E Mattis, MD
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1975
BS University of Illinois 1971

Kara H Mayes
Instructor in Clinical Medicine (primary appointment)

Caline Mbalaviele, MA, PHD
Associate Professor of Medicine (primary appointment)
MA School Not Listed 1987

PHD University of Paris 1992

Timothy Joseph McCann, MD
Instructor in Clinical Medicine (primary appointment)
MD American Univ of the Caribbean 1984
BS Saint Louis University 1980

Donte D McClary, MD
Instructor in Clinical Medicine (primary appointment)
MD Meharry Med College 1998
BS Xavier University 1993

Kyle Stephan McCommis, PHD
Assistant Professor of Medicine (primary appointment)
PHD University of MO Columbia 2013
BS University of Kansas 2006

William H. McCoy IV, MD, BS1, PHD
Instructor in Medicine (primary appointment)
MD Washington Univ in St. Louis 2013
BS1 University of Pittsburgh 2002
PHD Washington Univ in St. Louis 2013
BS University of Pittsburgh 2002

Leslie Rose McCrarry-Etuk, MD
Instructor in Clinical Medicine (primary appointment)
MD New York Medical College 2001

Jay R. McDonald, MD
Assistant Professor of Medicine (primary appointment)
BA Duke University 1991
BS Portland St University 1994
MD Oregon Health Science Univers 1998

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Associate Professor of Emergency Medicine in Medicine (primary appointment)
Associate Professor of Orthopaedic Surgery
Associate Professor of Physical Therapy
DPT Washington Univ in St. Louis 2005
MS Washington Univ in St. Louis 1990
AS Oakton Community College 2000
BS Washington Univ in St. Louis 1990

Cheryl Riddle McDonough, MD
Assistant Professor of Medicine (primary appointment)
BS Vanderbilt University 1997
MD University of Tennessee 2001

Colleen McEvoy, MD
Assistant Professor of Medicine (primary appointment)
MD University of MO Columbia 2008
BS Fairfield University 2004

Janet B McGill, MD, MA
Professor of Medicine (primary appointment)
MD Michigan State University 1979
BS University of Michigan 1972
MA Northern Michigan University 1980
Oliver McKee, MD  
Instructor in Clinical Medicine (Dermatology) (primary appointment)  
BA McGill University 1975  
MD School Not Listed 1981

Clark R McKenzie, MD  
Instructor in Clinical Medicine (primary appointment)  
BA University of Missouri 1989  
MD University of Missouri 1989

Robert M McMahon, JD, MD  
Instructor in Clinical Medicine (primary appointment)  
JD University of California 1974  
MD Washington Unv in St. Louis 1989  
BA University of California 1971

Amy McQueen, PHD, MA  
Associate Professor of Medicine (primary appointment)  
PHD University of Houston 2002  
MA University of Houston 1999  
BA University of CA San Diego 1996

Gerald Medoff, MD  
Professor Emeritus of Medicine (primary appointment)  
BA School Not Listed 1958  
MD Washington Univ in St. Louis 1962

Neha Mehta-Shah, MD  
Assistant Professor of Medicine (primary appointment)  
MD Northwestern University Med 2009  
BA Northwestern University 2005

Anibal G Melo, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 1991

Gary Jay Meltz, MD  
Instructor in Clinical Medicine (primary appointment)  
BA University of Missouri 1972  
MD University of Miami 1977

Robert S Mendelsohn, MD  
Associate Professor of Clinical Medicine (primary appointment)  
BA Washington & Lee 1950  
MD Washington Univ in St. Louis 1954

Ronald L Mera, MD  
Instructor in Clinical Medicine (primary appointment)  
BS School Not Listed 1970  
MD School Not Listed 1976

Claire Elizabeth Meyer, MD  
Assistant Professor of Medicine (primary appointment)  
BS Roanoke College 2004  
MD Washington Univ in St. Louis 2009

Rabya Mian, MBBS  
Instructor in Clinical Medicine (primary appointment)  
MBBS King Edward Medical College 1999

Scott Micek, MD  
Adjunct Instructor in Medicine (primary appointment)  
MD University of Iowa 1999

Gina Michael, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Duke University 1982  
BS University of Missouri 1978

William Samuel Micka, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Saint Louis University 2003  
BA Saint Louis University 1999

Brent William Miller, MD  
Professor of Medicine (primary appointment)  
MD Washington Univ in St. Louis 1990  
BS Stanford University 1986

Charles William Miller, MD  
Assistant Professor of Clinical Medicine (Dermatology) (primary appointment)  
BS School Not Listed 1968  
MD Washington Univ in St. Louis 1972

Lara Elizabeth Miller, DOST  
Instructor in Clinical Medicine (primary appointment)  
BS Carleton College 1996  
DOST Midwestern University 2000

Mark James Miller, PHD  
Associate Professor of Medicine (primary appointment)  
Associate Professor of Pathology and Immunology  
PHD University of California 1996  
BS University of California 1991

Heidi B Miller, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Harvard University 2000  
BS Yale University 1994

Christopher A Miller, BS1, PHD  
Assistant Professor of Medicine (primary appointment)  
BS1 Truman State University 2005  
PHD Baylor University 2011  
BS Truman State University 2005

Jeffrey R Millman, PHD  
Assistant Professor of Medicine (primary appointment)  
Assistant Professor of Biomedical Engineering  
PHD Mass Inst of Technology (MIT) 2011  
BS North Carolina State Universit 2005

Jason C Mills, PHD, MD1, MD, AB  
Professor of Medicine (primary appointment)  
Professor of Developmental Biology  
Professor of Pathology and Immunology  
BA Washington Univ in St. Louis 1989  
PHD University of Pennsylvania 1997  
MD1 University of Pennsylvania 1997
Graeme Mindel, MS, MBBC
Instructor in Clinical Medicine (primary appointment)
MS University of the Witwatersra 1992
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Professor of Cell Biology and Physiology
PHD California Institute Technolo 1991
BA Northwestern University 1985

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Assistant Professor of Medicine (primary appointment)
Assistant Professor of Molecular Microbiology
Assistant Professor of Pathology and Immunology
MD University of Oklahoma 2010
BS Brigham Young University 2002
PHD University of Oklahoma 2008

Joshua Delbert Mitchell, MD, BE
Assistant Professor of Medicine (Pending Executive Faculty approval) (primary appointment)
MD University of Texas Southwest 2008
BE John Hopkins University 2000

Makedonka Mitreva, MS, PHD
Associate Professor of Medicine (primary appointment)
Associate Professor of Genetics
MS University of Skopje - Macedon 1994
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BS University of Skopje - Macedon 1990

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Professor of Medicine (primary appointment)
MS University of Vienna 1999
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MD Isfahan U of Medical Sciences 2004

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BA De Paul University 1968

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BS University of Puerto Rico 1982
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MD Univ Texas Health Science Ctr 2008

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BS University of Missouri 1952
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BA Washington Univ in St. Louis 1950

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PHD Washington Univ in St. Louis 2006
MS Yonsei University 1999
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MD Univ of TN - Health Sci Center 2015

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Instructor in Clinical Medicine (primary appointment)

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Instructor in Medicine (primary appointment)
MD Loyola University Chicago 2008
BS Benedictine University 2004

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Assistant Professor of Medicine (primary appointment)
MS University of Pennsylvania 2017
PHD University College London 2010
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BA University of Missouri 1981

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PHD Univ of Wisconsin Madison 2011
MD University of Wisconsin-Madison 2013

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MD Vanderbilt University 2004
BS College of William and Mary 1999

Umadevi Muthyala
Instructor in Clinical Medicine (primary appointment)

BA Williams College 1989

Rosanne S Naunheim, MD
Associate Professor of Emergency Medicine in Medicine (primary appointment)
MD University of Chicago 1978
BA Carleton College 1970

Robert F Nease Jr, MA, PHD
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BS University of California 1980
MA Stanford University 1981
PHD Stanford University 1989

Burton M Needles, MD
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BS City College 1970
MD Loyola University Chicago 1974

Jeanne M Nerbonne, PHD
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Alumni Endowed Professor of Molecular Biology and Pharmacology in Developmental Biology
PHD Georgetown University 1978
BS Framingham State College 1974

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Professor of Medicine (primary appointment)
BA Washington Univ in St. Louis 1987
MD Washington Univ in St. Louis 1991

Elizabeth P. Newberry, PHD
Assistant Professor of Medicine (primary appointment)
BA Knox College 1988
PHD Washington Univ in St. Louis 1995

Amy C Ney, MD
Instructor in Clinical Medicine (Dermatology) (primary appointment)
MD University of Virginia 2001
BS Mary Washington College 1997

Nguyet Minh Nguyen, MD, BS1, MD1
Assistant Professor of Medicine (primary appointment)
BS University of Michigan 1989
MD Wayne State University 1993
BS1 University of Michigan 1989
MD1 Wayne State University 1993

Elizabeth Nieman, MD
Assistant Professor of Medicine (Dermatology) (primary appointment)
MD University of MO Columbia 2012

Jonas Gottfried Noe, MD
Instructor in Medicine (Pending Dean's Approval) (primary appointment)
MD Technische Universitat Darmsta 2014
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD Royal College of Surgeons 2010
BA University of Virginia 2004

Amit Noheria, MD, MS
Assistant Professor of Medicine (primary appointment)
MD All-India Inst of Medical Sci 2006
MS Harvard University 2007

Lemuel Benedict R Non, MD
Assistant Professor of Medicine (primary appointment)
BS Mindanao State University 2003
MD University of the Philippines 2008

Scott Monroe Nordlicht, MD
Professor of Medicine (primary appointment)
MD State University of New York 1973
BA Columbia University 1969

Tracy Wynette Norfleet, MD
Instructor in Clinical Medicine (primary appointment)
MD Louisiana St Univ Hlth Sci 2002
BS Xavier University Louisiana 1998

Sabrina Nunez, PHD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Genetics
BS University of CA Berkeley 1999
PHD Stony Brook School of Medicine 2007

Samuel R Nussbaum, MD
Professor of Clinical Medicine (primary appointment)
BA New York University 1969
MD School Not Listed 1973

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UNKNOWN1 Nishtar Medical College Multa 1974
UNKNOWN Govt College Sarhodha 1968

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Assistant Professor of Medicine (primary appointment)
MBBCH University College Cork 2006

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Instructor in Clinical Medicine (primary appointment)
MD School Not Listed 1977
BA University of Kansas 1972

Julie O'Neal, PHD
Instructor in Medicine (primary appointment)
BS University of MO Columbia 1999
PHD Washington Univ in St. Louis 2009

Andrew John Odden, MD
Assistant Professor of Medicine (primary appointment)
BS Gustavus Adolphus College 2003

MD University of Minnesota 2007

Devin Christopher Odom, MD
Assistant Professor of Medicine (primary appointment)
MD Wake Forest University 2010

Stephen T. Oh, PHD, MD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Pathology and Immunology
PHD Northwestern University 2002
MD Northwestern University 2004
BS Harvard University 1996

Adewole L. Okunade, PHD
Associate Professor of Medicine (primary appointment)
PHD University of Ibadan 1981
BS University of Ibadan 1975

George Charles Oliver, MD
Professor Emeritus of Clinical Medicine (primary appointment)
BA Harvard University 1953
MD Harvard University 1957

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Professor of Medicine (primary appointment)
Professor of Surgery (Public Health Sciences)
MPH Saint Louis University 2001
BS Southern Illinois University 1976
PHD University of Pennsylvania 1986

Robert F Onder Jr, MD
Assistant Professor of Clinical Medicine (primary appointment)
BA Washington Univ in St. Louis 1983
MD Washington Univ in St. Louis 1987

Peter J. Oppelt, MD
Assistant Professor of Medicine (primary appointment)
MD University of MO Columbia 2008
BS Saint Louis University 2004

S. Michael Orgel, MD
Instructor in Clinical Medicine (primary appointment)
BA Washington Univ in St. Louis 1960
MD Saint Louis University 1965

Matthew J Orland, MD
Associate Professor of Clinical Medicine (primary appointment)
MD University of Miami 1979
BS Yale University 1975

David William Ortbals, MD
Assistant Professor of Clinical Medicine (primary appointment)
BS Saint Louis University 1966
MD Washington Univ in St. Louis 1970

Daniel Scott Ory, MD
Professor of Medicine (primary appointment)
Alan A and Edith L Wolff Professor of Cardiology
Professor of Cell Biology and Physiology
MD Harvard University 1986
Joseph Pangelinan, MA, PhD
Assistant Professor in Medicine (primary appointment)
MA Southeast Missouri St Univers 1995
PHD University of MO St Louis 2015

Stephanie Sun-Young Park
Instructor in Clinical Medicine (primary appointment)

Andrew Yong-Woo Park, MD
Instructor in Medicine (primary appointment)
MD St. George's University 2006
BA Yale University 1995

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Assistant Professor of Medicine (primary appointment)
MD Seoul National University 2006
BS Seoul National University 2001
MS Johns Hopkins University Medc 2007

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BA Washington Univ in St. Louis 1978
MD University of Louisville 1982

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Associate Professor of Clinical Medicine (primary appointment)
BS University of MO Rolla 1979
MD Saint Louis University 1994
MBA Southern Illinois University 1985

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Instructor in Clinical Medicine (primary appointment)
MD Saba University School of Med 2001

Dilip H. Patel
Instructor in Clinical Medicine (primary appointment)

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Instructor in Medicine (primary appointment)
MD BJ Medical College 1980

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Assistant Professor of Medicine (primary appointment)
BA University of Michigan 2000
M PH Johns Hopkins University 2012
MD Wayne State University 2004

Urvi Patel, MD
Assistant Professor of Medicine (Dermatology) (primary appointment)
BA Kent St University 2007
MD University of Tenn Memphis 2011

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Instructor in Clinical Medicine (primary appointment)
MS School Not Listed 1969
UNKNOWN1 School Not Listed 1969

Bruce Patterson, PHD
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BS Southern Illinois University 1974
PHD University of Illinois 1980

Philip Richard Orrin Payne, PHD, MA
Professor of Medicine (primary appointment)
Professor of Computer Science and Engineering
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PHD Columbia University 2006
MA Columbia University 2000
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MS Central Michigan University 1984
PHD University of Southwestern Lo 1986
BFA Southern Methodist University 1977
DOST School Not Listed 1992

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MD Washington Univ in St. Louis 2013

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Assistant Professor of Medicine (primary appointment)
BA Grinnell College 2003
MS University of Iowa 2005
MD Southern Illinois University 2009

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BA Swarthmore College 1973
MD University of California 1978

Julio E Perez, MD
Professor of Medicine (primary appointment)
BS University of Puerto Rico 1970
MD University of Puerto Rico 1973

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BS Tulane University 1967
MD University of Louisville 1974

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Professor of Radiology
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BS Georgetown University 1986

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BS University of Michigan 1999
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BS Tulane University 2000
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BA Washington Univ in St. Louis 1983

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MD Southwestern University 1988

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MD Saint Louis University 1979

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BA Scripps College 1990

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Assistant Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1975
BS University of Toronto 1962
MS University of Toronto 1966
PHD University of Toronto 1970

Iskra Pusic, MD
Assistant Professor of Medicine (primary appointment)
MD University of Zagreb 1997

Usman Qayyum
Instructor in Clinical Medicine (primary appointment)

Nishath Quader, MD
Assistant Professor of Medicine (primary appointment)
MD Northwestern University 2007
BS University of Illinois Chicago 2002

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BS University of Illinois 1985
MD University of Illinois 1989

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MS School Not Listed 1992

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Assistant Professor of Medicine (primary appointment)
MBBS Jawaharial Inst of Med Educ 2006
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Instructor in Clinical Medicine (primary appointment)  

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Professor of Medicine (primary appointment)  
MBBS Kilpauk Medical College 1990  

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Associate Professor of Medicine (primary appointment)  
BS Mysore University 1975  
MS Andhra University 1977  
PHD University of Bombay 1987  

Srinivasan Dubagunta Rao  
Adjunct Instructor in Medicine (primary appointment)  

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Associate Professor of Medicine (primary appointment)  
Associate Professor of Surgery (General Surgery)  
BA University of Verona 1984  
MD University of Verona 1991  

Keith M Ratcliff  
Instructor in Clinical Medicine (primary appointment)  

Gary A Ratkin, MD  
Associate Professor of Clinical Medicine (primary appointment)  
Instructor in Clinical Radiation Oncology  
BA Rice University 1963  
MD Washington Univ in St. Louis 1967  

Felicia Ratnaraj, MD  
Instructor in Medicine (primary appointment)  
BA University of MO Kansas City 2012  
MD University of MO Kansas City 2014  

Lee Ratner, MD, PHD, MA  
Professor of Medicine (primary appointment)  
Alan A and Edith L Wolff Professor of Oncology  
Professor of Molecular Microbiology  
MD Yale University 1979  
BA Harvard University 1973  
PHD Yale University 1979  
MA Harvard University 1973  

Daniel Rauch, PHD, BS1  
Assistant Professor of Medicine (primary appointment)  
BS Augustana College 1996  
PHD University of Iowa 2001  
BS1 Augustana College 1996  

Michael I. Rauchman, MD  
Professor of Medicine (primary appointment)  
MD McGill University 1984  
BA Tufts University 1980  

Saadia Taufiq Raza, MD  
Assistant Professor of Clinical Medicine (Dermatology) (primary appointment)  
BA Emory University 1993  

MD Emory University 1997  
Babak Razani, MD, PHD  
Assistant Professor of Medicine (primary appointment)  
Assistant Professor of Pathology and Immunology  
MD Albert Einstein College of Med 2003  
PHD Albert Einstein College of Med 2003  

Timothy Patrick Rearden, MD, MS  
Associate Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)  
MD University of MO Columbia 1985  
MS University of MO Columbia 1981  
BS Southeast Missouri St Univers 1979  

Arhaanth D Reddy  
Instructor in Clinical Medicine (primary appointment)  

Kavitha Reddy  
Assistant Professor of Emergency Medicine in Medicine (primary appointment)  

Katherine Marie Reeder, PHD  
Adjunct Assistant Professor of Medicine (primary appointment)  
PHD University of Iowa 2007  

Dominic N Reeds, MD  
Associate Professor of Medicine (primary appointment)  
MD Texas Tech University 1996  
BA University of Texas Austin 1992  

Susan Robinson Reeds, MD  
Assistant Professor of Medicine (primary appointment)  
MD University of Rochester 1996  
BS Haverford College 1990  

Lester T Reese, MD  
Professor of Clinical Medicine (Dermatology) (primary appointment)  
BS Tulane University 1962  
MD Tulane University 1966  

Allison Ann Regier, PHD, MS  
Instructor in Medicine (primary appointment)  
BS Bethel College 2004  
PHD University of Notre Dame 2011  
MS University of Notre Dame 2009  

Margaret Reiker, PHD, UNKNOWN, MD  
Instructor in Clinical Medicine (primary appointment)  
PHD Saint Louis University 1991  
UNKNOWN Saint Louis University 1986  
MD Saint Louis University 1993  

Craig K Reiss, MD  
Professor of Clinical Medicine (primary appointment)  
MD University of Missouri 1983  
BA University of Missouri 1979  

Jacqueline Levy Reiss, MD  
Instructor in Clinical Medicine (primary appointment)  

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MD University of Missouri 1990
BA University of MO Kansas City 1989

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Assistant Professor of Medicine (primary appointment)
Assistant Professor of Cell Biology and Physiology
MS University of Cordoba 1989
BS University of Cordoba 1987
PHD University of Cordoba 1999

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Assistant Professor of Medicine (primary appointment)
PHD University of Illinois 2000
MS University of Illinois 1997
MD University of Illinois 2002

Stacey L. Rentschler, PHD, MD, MS
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Developmental Biology
PHD Mount Sinai School of Medicine 2002
MD Mount Sinai School of Medicine 2004
BS Lehigh University 1995
MS Mount Sinai School of Medicine 2000

Nicholas R Renz, MD
Instructor in Emergency Medicine in Medicine (primary appointment)
BA University of MO Columbia 2004
MD University of MO Columbia 2008

Michael P Rettig, PHD
Associate Professor of Medicine (primary appointment)
BS Illinois State University 1993
PHD Purdue University 2000

Michael W Rich, MD
Professor of Medicine (primary appointment)
MD University of Illinois 1979
BA University of Illinois 1974

Lois F. Richard, PHD, MD
Assistant Professor of Medicine (primary appointment)
BS Murray St University 1982
PHD Saint Louis University 1998
MD Saint Louis University 1999

Nancy Ridenour
Adjunct Professor of Medicine (primary appointment)

Terrence E Riehl, MS, PHD
Associate Professor of Medicine (primary appointment)
MS Rutgers University 1976
PHD Ohio University 1981
BS Rutgers University 1974

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Assistant Professor of Medicine (primary appointment)
BS Univ of Wisconsin Madison 2001
MD Washington Univ in St. Louis 2005

Caron E Rigden, BFA, MD
Assistant Professor of Medicine (primary appointment)
BFA Tulane University 1996
MD Tulane University 2000

Tracy Marie Riordan, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 2000
BA Saint Louis University 1996

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Assistant Professor of Medicine (primary appointment)
Assistant Professor of Genetics
PHD Johns Hopkins University 2009
BS Western Kentucky University 2004

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Assistant Professor of Clinical Medicine (primary appointment)
BS Haverford College 1983
MD Washington Univ in St. Louis 1989
M Phil Cambridge University 1985

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Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
MD National Autonomous U of Mex 1980

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Instructor in Clinical Medicine (primary appointment)
MD Tehran University 1988

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Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1965

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Instructor in Clinical Medicine (primary appointment)
MD School Not Listed 1987
BS Union College New York 1982

Arthur G. Romero, PHD
Associate Professor of Medicine (primary appointment)
BS Johns Hopkins University 1979
PHD Univ of Wisconsin Madison 1985

Ernesto J Romo, MD
Instructor in Emergency Medicine in Medicine (primary appointment)
BS University of Dayton 2007
MD University of Illinois Chicago 2011

Daniel B Rosenbluth, MD
Professor of Medicine (primary appointment)
Professor of Pediatrics
Tracey C and William J Marshall Professor of Medicine
MD Mount Sinai School of Medicine 1989
BS Columbia University 1985

Anna Roshal, MD
Assistant Professor of Medicine (primary appointment)
MD University of Rochester 1997
BS University of Rochester 1993

Ilana Shaina Rosman, MD
Assistant Professor of Medicine (Dermatology) (primary appointment)
Assistant Professor of Pathology and Immunology
MD Washington Univ in St. Louis 2008
BA Brown University 2000

Bruce J Roth, MD
Professor of Medicine (primary appointment)
MD Saint Louis University 1980

Marcos Rothstein, MD
Professor of Medicine (primary appointment)
MD University of Zulia 1974

Ernest Tuttle Rouse III, MD
Instructor in Clinical Medicine (primary appointment)
BA Princeton University 1967
MD Washington Univ in St. Louis 1971

Jeremy Rower, MD
Instructor in Clinical Medicine (primary appointment)
BS University of Cincinnati 1993
MD University of Cincinnati 1997

Deborah C Rubin, MD
Professor of Medicine (primary appointment)
Professor of Developmental Biology
MD Albert Einstein College of Med 1981
BS Mass Inst of Technology (MIT) 1977

Myra L. Rubio, MD
Associate Professor of Medicine (primary appointment)
BA Washington Univ in St. Louis 1994
MD Indiana University Bloomington 1998

Lela Ruck, MD
Instructor in Medicine (primary appointment)
MD Texas Tech University 2014

Paetra Ruddy, MD
Assistant Professor of Medicine (Dermatology) (primary appointment)
MD University of Iowa 2011
BA Bard College 1997

Peter G Ruminski, MS
Instructor in Medicine (primary appointment)
MS Washington Univ in St. Louis 1992
BS Saint Louis University 1977
BS Saint Louis University 1975

Emily Lindholm Rumora, MD
Instructor in Medicine (primary appointment)
MD Dartmouth College 2013

Brent E Ruoff, MD
Associate Professor of Emergency Medicine in Medicine (primary appointment)
BS Graceland College 1977
MD Saint Louis University 1981

Michael B Rusche
Adjunct Instructor in Medicine (primary appointment)

Tonya D Russell, MD, BS1, MD1
Professor of Medicine (primary appointment)
MD University of Florida 1997
BS1 University of Florida 1993
BS University of Florida 1993
MD1 University of Florida 1997

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Visiting Assistant Professor of Medicine (primary appointment)
BS University of Palermo 1998
PHD University of Padua 2005
MS University of Padua 1998
BS University of Palermo 1998
MS University of Padua 1998

Joseph F Ruwitch Jr, MD
Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1966

S

Raya Saba, MD
Instructor in Medicine (primary appointment)
MD Damascus University 2011

Molly Sachdev, MD, M PH
Assistant Professor of Medicine (primary appointment)
MD Duke University 2001
M PH University North Carolina 2000

Justin Sadhu, MD
Assistant Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 2007

J. Evan Sadler, PHD, MD
Professor of Medicine (primary appointment)
Professor of Biochemistry and Molecular Biophysics
PHD Duke University 1978
MD Duke University 1979

Mehrdad Saeed-Vafa, MD
Instructor in Clinical Medicine (primary appointment)
MD School Not Listed 2000

Jose Bernardo Saenz, MD, PHD
Instructor in Medicine (primary appointment)
BA Cornell University 2003
BA Cornell University 2003
MD Washington Univ in St. Louis 2011
PHD Washington Univ in St. Louis 2009

Sonny Satnam Saggar
Instructor in Clinical Medicine (primary appointment)

Sana Saif Ur Rehman, MD
Instructor in Medicine (primary appointment)
MD King Edward Medical College 2007

Kaori A. Sakurai
Instructor in Clinical Medicine (primary appointment)

Maamoun Salam
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)

Christine Joan Salter, DC, MD
Instructor in Clinical Medicine (primary appointment)
DC Logan College of Chiropractic 1991
BS Reading University 1982
MD Saint Louis University 1998

Robert J Saltman, MD
Associate Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1980
BA Yale University 1976

John Mark Samet, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Missouri 1968
BS Washington & Lee 1964

Dmitri Samovski, PHD
Assistant Professor of Medicine (primary appointment)
PHD Hebrew University 2009

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Instructor in Clinical Medicine (Dermatology) (primary appointment)
BA University of Texas Austin 1972
MD Washington Univ in St. Louis 1976

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MD Harvard University 1978
BA Berry College 1974

Sarah Anne Sandberg, MD
Instructor in Medicine (Pending Dean's Approval) (primary appointment)
MD Medical University of Sth Car 2008

Mark Steven Sands, PHD
Professor of Medicine (primary appointment)
Professor of Genetics
PHD State Univ of NY Stonybrook 1990
BS Rochester Institute of Techno 1980

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Assistant Professor of Medicine (primary appointment)
BS Washington Univ in St. Louis 2003
MD University of MO Columbia 2007
MHS Washington Univ in St. Louis 2012

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BS Fergusson College 1995
MS Indian Institute Of Technology 1997
PHD Institute of Math Sciences 2003

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BA Rutgers University 1985
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BS Michigan State University 2004

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BA University of Missouri 1989
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MD Drexel University 2007
BA New York University 2004

Robert W Sindel, MD
Instructor in Clinical Medicine (primary appointment)
BA Washington Univ in St. Louis 1969
MD Washington Univ in St. Louis 1975

Sanford S Sineff, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD Brown University 1996
BS Harvard University 1992

Gary Singer, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD University of Toronto 1987

Jasvinder Singh, MD
Associate Professor of Medicine (primary appointment)
MD Fiji School of Medicine 1988

Gurcharan J Singh, MD
Instructor in Clinical Medicine (primary appointment)
BS Delhi University 1968
MD Delhi University 1975

Marc Alan Sintek, MD
Assistant Professor of Medicine (primary appointment)
MD Univ of Nebraska at Kearney 2008

Donald A Skor, MD
Professor of Clinical Medicine (primary appointment)
BA Washington Univ in St. Louis 1973
MD Rush University 1978

Timothy W. Smith, MD, PHD
Associate Professor of Medicine (primary appointment)
MD Duke University 1993
BS Duke University 1986
PHD Oxford University 1989

Raymond P Smith, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Virginia 1984
BA Vassar College 1980

Gordon Ian Smith, PHD, MS
Assistant Professor of Medicine (primary appointment)
PHD University of Aberdeen 2006
BS University College Chichester 2001
MS University College Chichester 2002

Timothy Robert Smith, MD
Instructor in Clinical Medicine (primary appointment)
BS University of Mississippi 1983
MD University of Mississippi 1989

Michael C Snyder
Adjunct Instructor in Medicine (primary appointment)

Allen D Soffer, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Missouri 1983

Stephanie Rose Solomon, PHD
Adjunct Assistant Professor of Medicine (primary appointment)
PHD Emory University 2008
BS Ohio State University 2001

Rand Washburn Sommer, MD
Associate Professor of Clinical Medicine (primary appointment)
BS Davidson College 1976
MD Washington Univ in St. Louis 1980

Hani Charles Soudah, MD, PHD
Associate Professor of Clinical Medicine (primary appointment)
MD School Not Listed 1983
PHD School Not Listed 1988

George Souroullas, PHD
Instructor in Medicine (primary appointment)
BA Ohio Wesleyan University 2004
PHD Baylor University 2010

William F Southworth, MD
Assistant Professor of Clinical Medicine (primary appointment)
BA Washington Univ in St. Louis 1969
MD Washington Univ in St. Louis 1975

James Joseph Spadaro Jr, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD Louisiana St University 1976

Michael L Spearman, MD
Instructor in Clinical Medicine (primary appointment)
BS Kansas State University 1978
MD University of Kansas Medical 1982

Andrej Spec, MD
Assistant Professor of Medicine (primary appointment)
BS Loyola University Chicago 2005
MD University of Illinois 2010

David H. Spencer, MD, PHD
Assistant Professor of Medicine (primary appointment)
MD University of Washington 2010
BS University of Washington 2001
PHD University of Washington 2008

John Spertus
Adjunct Professor of Medicine (primary appointment)

Michael Spezia
Instructor in Clinical Medicine (primary appointment)

Erik Christian Stabell, MD
Instructor in Clinical Medicine (primary appointment)
MD School Not Listed 1983
BA New College California 1976

Karl Staser, PHD, MD
Instructor in Medicine (primary appointment)
PHD Indiana State University 2013
MD Indiana State University 2013

Phyllis K Stein, PHD, M ED
Associate Professor of Medicine (primary appointment)
PHD University of Virginia 1990
BA Barnard College 1962
M ED University of Virginia 1987

Paul M Stein, MD
Professor of Clinical Medicine (primary appointment)
BA University of Rochester 1967
MD Saint Louis University 1971

Richard Ian Stein, PHD
Associate Professor of Medicine (primary appointment)
PHD Arizona State University 2000

Emily Steiner, MD
Instructor in Medicine (primary appointment)
BA Case Western Reserve Univ 2009
MD University of Toledo 2013

William F Stenson, MD
Dr Nicholas V Costrini Professor of Medicine (primary appointment)
BS Providence College 1967
MD Washington Univ in St. Louis 1971

Barbara B Sterkel
Adjunct Associate Professor of Medicine (primary appointment)

Karin Sterl, MD
Instructor in Medicine (primary appointment)
MD Lului Hatieganu U of Med 2007

Kara Ellen Sternhell-Blackwell, MA, MD
Associate Professor of Medicine (Dermatology) (primary appointment)
BA Washington Univ in St. Louis 1999
MA Washington Univ in St. Louis 2003
MD Washington Univ in St. Louis 2005

Sean P Stickles, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD New York Medical College 2008
BA State Univ of NY Buffalo 2004

Nathan O. Stitziel, MD, BA1, PHD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Genetics
BA Washington Univ in St. Louis 1998
MD University of Illinois Chicago 2006
BA1 Washington Univ in St. Louis 1998
PHD University of Illinois Chicago 2006

Keith Evan Stockerl-Goldstein, MD
Associate Professor of Medicine (primary appointment)
MD University of CA Los Angeles 1991
BA Washington Univ in St. Louis 1986

James Andrew Stokes, MD
Instructor in Clinical Medicine (primary appointment)
BA Stanford University 1976
MD University of Missouri 1984

Michael Gary Stone, MD
Instructor in Clinical Medicine (primary appointment)
MD Kansas City Univ Med/Biology 2008

Cristina Strong, PHD
Assistant Professor of Medicine (Dermatology) (primary appointment)
PHD University of Alabama 2002

Christopher Michael Sturgeon, PHD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Developmental Biology
BS Carleton University 2001
PHD University of British Columbia 2006

Xiong Su, PHD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Cell Biology and Physiology
PHD Washington Univ in St. Louis 2004
BS Beijing University 1998

Xinming Su, PHD, MS
Instructor in Medicine (primary appointment)
PHD Nanjing Agriculture Univ 2006
BS Shihezi Medical College 1996
MS Nanjing Agriculture Univ 2003

Hamsa Subramanian, UNKNOWN
Instructor in Clinical Medicine (primary appointment)
BS St. Joseph's Convent - Trichy 1986
UNKNOWN Thanjore Medical College 1990

Kanagaraj Subramanian, PhD, MS
Instructor in Medicine (primary appointment)
PHD Heidelberg University 2007
MS Heidelberg University 2000

Hani Suleiman, MD
Instructor in Medicine (primary appointment)
MD Regensburg University 2007

Kaharu Sumino, M PA, PHD, MD
Associate Professor of Medicine (primary appointment)
M PA Johns Hopkins University 2008
PHD Yokohama City Univ Sch Med 1999
MD Yokohama City Univ Sch Med 1992

William Craig Summers, MD
Instructor in Clinical Medicine (primary appointment)
MD University of AL Birmingham 1999
BS University of Alabama 1994

Rama Suresh, MBBS
Assistant Professor of Medicine (primary appointment)
MBBS University of Madras 1993

Rudee Suwannasri, MD
Instructor in Clinical Medicine (primary appointment)
MD Chiang Mai University 1973
BS Chiang Mai University 1971

Bridgette B Svancarek, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD University of MO Columbia 2006
BA Saint Louis University 2001

Elzbieta Anna Swietlicki, MS, PHD
Assistant Professor of Medicine (primary appointment)
MS Medical Academy Lodz 1975
PHD Medical Academy Lodz 1981

T

Mohammad Tahir, MD
Instructor in Clinical Medicine (primary appointment)
MD Dow Medical College Karachi 1976

Benjamin R Tan, MD
Associate Professor of Medicine (primary appointment)
BS University of the Philippines 1985
MD University of the Philippines 1990

David Tan, MD
Associate Professor of Emergency Medicine in Medicine (primary appointment)
MD Loma Linda University 1997
BS Union College Nebraska 1992

Kongsak Tanphaichitr, MD
Professor of Clinical Medicine (primary appointment)
MD Siriraj Medical School 1970

Richard S Tao, MD, MIM
Instructor in Emergency Medicine in Medicine (primary appointment)
MD Indiana State University 1995
MIM Indiana State University 1999
BA Indiana State University 1991

Arnold S Tepper, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Missouri 1970
BS School Not Listed 1966

Wanda T Terrell, MD
Associate Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1979
BA Washington Univ in St. Louis 1975

Larissa Bryka Thackray, PHD
Assistant Professor of Medicine (primary appointment)
BS Cornell University 1991
PHD U of Colorado Health Sci Ctr 2003

George K. Thampy, MD
Instructor in Clinical Medicine (primary appointment)
MD Kerala University 1977

Shaukat Thanawalla
Instructor in Clinical Medicine (primary appointment)

Daniel Leonidas Theodoro, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD Brown University 1997

J. Allen Thiel, MD
Associate Professor of Clinical Medicine (primary appointment)
BS Rockhurst College 1956
MD Saint Louis University 1960

Mark S Thoelke, PHD, MD
Professor of Medicine (primary appointment)
BS University of Illinois 1982
PHD University of Illinois 1990
MD University of Illinois 1990

Benjamin S Thomas, MD
Adjunct Instructor in Medicine (primary appointment)
MD Mercer University Macon 2009
BS Georgia Tech 2002

Theodore Seth Thomas, MD, M PH, MS
Instructor in Medicine (primary appointment)
MD University of MO Columbia 2010
M PH Washington Univ in St. Louis 2017
BS University of MO Columbia 2005
MS University of MO Columbia 2006

Erik P Thyssen, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD University of Copenhagen 1984
BS University of Copenhagen 1980

LinLin Tian, PHD
Instructor in Emergency Medicine in Medicine (primary appointment)
BS Hebei Medical University 2004
PHD Beijing Institute of Radiation 2009

Lawrence S Tierney, MD
Associate Professor of Clinical Medicine (primary appointment)
MD University of Illinois 1988
BS University of Illinois 1984

Jeffrey P Tillinghast, MD
Associate Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1980

BS State University of New York 1976
Wael Toama, MD
Instructor in Medicine (primary appointment)
MD Damascus U. Medical School 2005

Garry S Tobin, MD
Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 1985
BS MO S&T (formerly UofMO Rolla) 1981

Fadi Tohme, MD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Anesthesiology
MD St. Joseph University, Beirut 2010

Douglas M Tollefsen, PHD, MD
Professor of Medicine (primary appointment)
PHD Washington Univ in St. Louis 1977
BA Grinnell College 1970
MD Washington Univ in St. Louis 1977

Robert R Townsend, MS, MD, PHD
Professor of Medicine (primary appointment)
Professor of Cell Biology and Physiology
BS Centenary College 1972
MS Tulane University 1976
MD Tulane University 1976
PHD Johns Hopkins University 1982

Elizabeth A Tracy, MD
Instructor in Clinical Medicine (primary appointment)
BS Marquette University 1982
MD Univ of Wisconsin Milwaukee 1986

Doris Janet Tribune-Brown
Instructor in Clinical Medicine (primary appointment)

Nikolaos Trikalinos, MD
Assistant Professor of Medicine (primary appointment)
MD UNIVERSITY OF IOANNINA 2005

Sandeep Kumar Tripathy, MD, PHD
Assistant Professor of Medicine (primary appointment)
MD University of Chicago 1998
BS University of Illinois 1990
PHD University of Chicago 1995

Elbert P Trulock III, MD
Rosemary and I Jerome Flance Professor of Pulmonary Medicine in Medicine (primary appointment)
MD Emory University 1978
BS Emory University 1968

Thomas F Tse, MD
Instructor in Clinical Medicine (primary appointment)
BS University of Nebraska 1972
MD Univ of Nebraska at Omaha 1976

Dolores R Tucker, MD
Assistant Professor of Clinical Medicine (Dermatology) (primary appointment)
MD Washington Univ in St. Louis 1974
BS Saint Mary's College 1958

David J Tucker, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD Saint Louis University 1981
BS University of Notre Dame 1977

Ann-Marcia C Tukphah, M PH, MD
Instructor in Medicine (Pending Dean's Approval) (primary appointment)
BS Northeastern University 2007
M PH Johns Hopkins University 2011
MD Mount Sinai School of Medicine 2015

Stacey S Tull, M PH, MD
Assistant Professor of Clinical Medicine (Dermatology) (primary appointment)
BS University of Texas Austin 1993
M PH Duke University 1997
MD Duke University 1997

John W Turk, MD, PHD
Professor of Medicine (primary appointment)
Alan A and Edith L Wolff Professor of Endocrinology
Professor of Pathology and Immunology
BA Washington Univ in St. Louis 1970
MD Washington Univ in St. Louis 1976
PHD Washington Univ in St. Louis 1976

Garima Gupta Tyagi, PHD, MASTERS
Instructor in Medicine (primary appointment)
BA Delhi University 2003
PHD Indian Institute of Science 2011
MASTERS Institute of Medical Science 2005

Robert C. Uchiyama, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 1980
BS Stanford University 1976

Mark C Udey, PHD, MD
Professor of Medicine (primary appointment)
PHD Washington Univ in St. Louis 1982
BS Univ of Wisconsin Madison 1975
MD Washington Univ in St. Louis 1982

Fumihiko Urano, PHD, MD
Samuel E Schechter Professor of Medicine (primary appointment)
Professor of Pathology and Immunology
PHD Keio University 1998
MD Keio University 1994

Geoffrey L Uy, MA, MD, BA1
Associate Professor of Medicine (primary appointment)
BA Cornell University 1996
MA Washington Univ in St. Louis 2001
MD Washington Univ in St. Louis 2001
BA1 Cornell University 1996

Justin Marinus Vader, MD
Assistant Professor of Medicine (primary appointment)
MD University of Texas Southwest 2006

Brij R Vaid, MD
Instructor in Clinical Medicine (primary appointment)
MD Rush University 1992

Albert Lee Van Amburg Ill, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1972
BA Washington Univ in St. Louis 1968

Brian Andrew Van Tine, PHD, MD
Associate Professor of Medicine (primary appointment)
PHD University of AL Birmingham 2005
MD University of AL Birmingham 2005
BS University of Arizona 1995

Gil M Vardi, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD Tel-Aviv University 1988

Deborah J Veis, MD, PHD
Professor of Medicine (primary appointment)
Professor of Pathology and Immunology
MD Washington Univ in St. Louis 1995
PHD Washington Univ in St. Louis 1995
BA Princeton University 1987

Emmanuel A Venkatesan, MBBS
Associate Professor of Clinical Medicine (primary appointment)
MBBS CMC, Vellore, India 1990

Ravi Vij, MBBS
Professor of Medicine (primary appointment)
BS Delhi University 1991
MBBS Maulana Azad Medical College 1991

Kiran Raj Vij, MD
Associate Professor of Medicine (primary appointment)
Associate Professor of Pathology and Immunology
MD Indira Gandhi Medical College 1993

Anitha Vijayan, MD
Professor of Medicine (primary appointment)
MD University of the West Indies 1990

Dennis T Villareal, MD
Adjunct Associate Professor of Medicine (primary appointment)
BS University of San Carlos 1978
MD CEBU Doctor's College of Med 1982
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
MD Univ of Health Sciences KC 1990
BS University of MO St Louis 1986
Benjamin Allen Voss, MD, BA1
Instructor in Clinical Medicine (primary appointment)
MD Creighton University 2007
BA1 Saint Louis University 2003
BS Saint Louis University 2003
Stanley G Vriezelaar, MD
Instructor in Clinical Medicine (primary appointment)
BA Simpson College 1977
MD University of Iowa 1981

Harry Lee Wadsworth, MD
Instructor in Clinical Medicine (primary appointment)
BS Texas Tech University 1978
MD Texas Tech University 1983

Jason Cass Wagner, MD
Assistant Professor of Emergency Medicine in Medicine (primary appointment)
MD University of Colorado Denver 2001

Stanley M Wald, MD
Associate Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1946

David Wallace, MD
Instructor in Clinical Medicine (primary appointment)
BA Saint Anselm College 1980
MD Saint Louis University 1984

Laura A Wallace, MD
Instructor in Emergency Medicine in Medicine (primary appointment)
BA Indiana University Indianapolis 2017
MD Ohio State University 2012

David A Walls, MD
Instructor in Clinical Medicine (primary appointment)
MD Southern Illinois University 1982
BA Southern Illinois University 1979

Sarah N. Walsh
Instructor in Clinical Medicine (Dermatology) (primary appointment)

Matthew John Walter, MD
Professor of Medicine (primary appointment)
Professor of Genetics
MD Saint Louis University 1995
BS The American University 1990
Richard Coburn Walters, MD
Instructor in Clinical Medicine (Dermatology) (primary appointment)

BS University of Illinois 1969
MD Washington Univ in St. Louis 1973

Lawrence L. Wang, MD, PHD
Instructor in Clinical Medicine (Dermatology) (primary appointment)
BA Harvard University 1993
MD Washington Univ in St. Louis 2001
PHD Washington Univ in St. Louis 2001

Jean S Wang, PHD, MD
Professor of Medicine (primary appointment)
Professor of Surgery (General Surgery)
PHD John Hopkins University 2009
MD Brown University 1998

Leyao Wang, M PH, PHD
Instructor in Medicine (primary appointment)
M PH Johns Hopkins University 2017
BA Nankai University 2017
PHD Fudan University 2017

Andrea Wang-Gillam, MD, BS1
Associate Professor of Medicine (primary appointment)
MD University of AR Little Rock 2001
BA Ouachita Baptist University 1993
BS Ouachita Baptist University 1993

Saiama Naheed Waqar, MD
Assistant Professor of Medicine (primary appointment)
MD Aga Khan University 2001

Jeffrey Peter Ward, MD, PHD
Instructor in Medicine (primary appointment)
MD SUNY - Empire State College 2010
BS Wilkes University 2002
PHD SUNY - Empire State College 2010

David K. Warren, MPH, MD
Professor of Medicine (primary appointment)
BS Pennsylvania State University 1990
MPH Saint Louis University 2005
MD University of Pittsburgh 1994

Corinna Hendrell Warren, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Illinois Chicago 1994
BS Southern Ill Univ Edwardsville 1990

Lukas Delbert Wartman, MD
Assistant Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 2005
BS Univ of Wisconsin Madison 1998

Scott P Wasserstrom, MD, MA
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1995
BS University of Illinois 1990
MA Washington Univ in St. Louis 1995
Jason Dean Weber, PHD  
Professor of Medicine (primary appointment)  
Professor of Cell Biology and Physiology  
PHD Saint Louis University 1997  
BS Bradley University 1993

H. James Wedner, MD  
Phillip & Arleen Korenblat Professor of Allergy and Immunology in Medicine (primary appointment)  
BS Cornell University 1963  
MD Cornell University 1967

Xiaochao Wei, PHD  
Assistant Professor of Medicine (primary appointment)  
PHD University of Rochester 2007

Kevin D Weikart, MD  
Instructor in Clinical Medicine (primary appointment)  
MD American Univ of the Caribbean 1979

Gary J Well, MD  
Professor of Medicine (primary appointment)  
Professor of Molecular Microbiology  
MD Harvard University 1975  
BA Harvard University 1971

Katherine N Weilbaecher, MD  
Professor of Medicine (primary appointment)  
Professor of Cell Biology and Physiology  
Professor of Pathology and Immunology  
BA Harvard University 1987  
MD Stanford University 1992

Carla Joy Weinheimer, MS  
Associate Professor of Medicine (primary appointment)  
BS University of Illinois 1984  
MS Washington Univ in St. Louis 1997

Leonard B Weinstock, MD  
Associate Professor of Clinical Medicine (primary appointment)  
Assistant Professor of Clinical Surgery (General Surgery)  
MD University of Rochester 1981  
BA University of Vermont 1977

Steven Jay Weintraub, MD, MS  
Associate Professor of Medicine (primary appointment)  
BA State Univ of NY Binghampton 1978  
MD University of Virginia 1985  
MS University of Virginia 1981

Edmond Weisbart  
Assistant Professor of Clinical Medicine (primary appointment)

Alan N Weiss, MD  
Professor of Medicine (primary appointment)  
BA Ohio State University 1963  
MD Ohio State University 1966

Peter Douglas Weiss, MD  
Instructor in Clinical Medicine (primary appointment)  
BA Harvard University 1975  
MD Case Western Reserve Univ 1980

Edward P Weiss, MS, PHD  
Adjunct Research Assistant Professor of Medicine (primary appointment)  
MS Southern Illinois University 1992  
BS Southern Illinois University 1989  
PHD University of Maryland 2003

John Sutton Welch, PHD, MD  
Associate Professor of Medicine (primary appointment)  
PHD University of CA San Diego 2002  
MD San Diego St University 2004  
BS Brigham Young University 1995

Lynn Ellis Welling, MD  
Adjunct Associate Professor of Medicine (primary appointment)  
MD UniformedServUofHealthSciences 1989

Alvin S Wenneker, MD  
Professor of Clinical Medicine (primary appointment)  
BA Washington Univ in St. Louis 1949  
MD Washington Univ in St. Louis 1953

Jennifer Marie Wessels, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Saint Louis University 2009

Peter Westervelt, MD, PHD  
Professor of Medicine (primary appointment)  
MD Washington Univ in St. Louis 1992  
PHD Washington Univ in St. Louis 1992  
BA Colby College 1985

Patrick White, MD  
Assistant Professor of Medicine (primary appointment)  
MD Ohio State University 2007  
BS Notre Dame College 2002

Michael Peter Whyte, MD  
Professor of Medicine (primary appointment)  
Professor of Genetics  
Professor of Pediatrics  
MD State University of New York 1972  
BA New York University 1968

Burton M Wice, PHD  
Associate Professor of Medicine (primary appointment)  
BA University of Missouri 1975  
PHD Washington Univ in St. Louis 1992

Cynthia A Wichelman, MD  
Associate Professor of Emergency Medicine in Medicine  
(primary appointment)  
Course Director for the Mini-Medical School  
MD Stanford University 1988  
BA University of California 1982

Samuel A Wickline, MD
Adjunct Professor of Medicine (primary appointment)
BA Pomona College 1974
MD University of Hawaii 1980

John F Wiedner, MD
Instructor in Clinical Medicine (primary appointment)
BA Knox College 1982
MD School Not Listed 1985

Deborah A Wienski, MD
Instructor in Clinical Medicine (primary appointment)
MD Tufts University 1983
BA Smith College 1979

Tanya M Wildes, MD
Associate Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 2002
BS Illinois Wesleyan University 1998

George A Williams III, MA, MD
Assistant Professor of Clinical Medicine (primary appointment)
MA Columbia University 1968
BA University of Notre Dame 1967
MD Univ of Wisconsin Madison 1972

R. Jerome Williams Jr, MD
Associate Professor of Clinical Medicine (primary appointment)
MD Duke University 1977
BA Harvard University 1973

Nancy J Williams, MD
Instructor in Clinical Medicine (primary appointment)
MD Dartmouth College 1982
MD University of Kansas 1987

Timothy John Williams, MD
Instructor in Medicine (primary appointment)
MD University of Cincinnati 2012
BA McKendree College 2008

Patrick H Win
Instructor in Clinical Medicine (primary appointment)

Karen Winters, MD
Associate Professor of Medicine (primary appointment)
Director of the Student and Employee Health Service - Medical Campus
BS Illinois State University 1975
MD Southern Illinois University 1983

Chad Alan Witt, MD
Associate Professor of Medicine (primary appointment)
BS Texas Tech University 2001
MD University of Texas Southwest 2005

Keith Frederic Woeltje, MD, PHD
Professor of Medicine (primary appointment)
MD Texas Southern University 1991
PHD Texas Southern University 1991
BS University of Dallas 1984

Edward M Wolfe, MD
Instructor in Clinical Medicine (Dermatology) (primary appointment)
MD Washington Univ in St. Louis 1960
BA Hobart College 1956

Gerald Wolff, MD
Assistant Professor of Clinical Medicine (primary appointment)
BA Harvard University 1955
MD Washington Univ in St. Louis 1961

Nathan E Wolins, PHD
Assistant Professor of Medicine (primary appointment)
PHD George Washington University 1994

Terrence N Wong, MD, PHD
Instructor in Medicine (primary appointment)
MD Dartmouth College 2009
PHD University of Chicago 2007
BS University of Chicago 2007

John A Wood, MD
Associate Professor of Clinical Medicine (primary appointment)
MD University of Oklahoma 1968

Megan Elizabeth Wren, MD
Professor of Medicine (primary appointment)
BA Washington Univ in St. Louis 1981
MD Washington Univ in St. Louis 1985

Jeffrey M Wright, MD
Assistant Professor of Clinical Medicine (primary appointment)
Assistant Professor of Clinical Pediatrics
MD Washington Univ in St. Louis 1979
BS Vanderbilt University 1975

Xiaobo Wu, MD
Assistant Professor of Medicine (primary appointment)
MD Tongji University 1986

Haojia Wu, PHD
Instructor in Medicine (primary appointment)
BS Sun Yat-Sen University 2007
PHD University of Hong Kong 2014

Yan Xie, MS, MD
Instructor in Medicine (primary appointment)
MS Hubei Medical University 1991
MD Tongji University 1986

Naga M Yalla, MD
Assistant Professor of Medicine (primary appointment)
MD SRTR Medical College 2005

Timothy Teng-Kay Yau, MD
Assistant Professor of Medicine (primary appointment)
BA Saint Louis University 2001
Courses


M25 Medicine 507 Practice of Medicine I

POM I is a large course which spans all three blocks of the first year. It is composed of three content areas: Clinical Skills Patient, Physician, and Society Clinical Knowledge. Each of these three content areas has two or more sections, each run by a faculty section leader. POM I employs a variety of teaching techniques, instructors and venues. This includes lecture, small group discussions, panel sessions, one-on-one hospital interviews, standardized patient sessions, a patient home visit, and visits to both a primary care office and a city clinic. What are the educational goals of POM I? Students will learn to: 1. Perform a complete history and physical examination with thoroughness, accuracy, sensitivity and compassion. 2. Communicate effectively, efficiently and compassionately with patients, families and other health professionals. 3. Describe and analyze the statistical methodology of clinical studies and apply the results to individuals and groups of patients. 4. Identify and investigate ethical, cultural, socioeconomic and political factors relevant to medical interactions. 5. Examine and analyze personal and professional competencies, limitations and behaviors. How do we accomplish these goals? 1. Learning skills and techniques requires a cycle of steps: preparation, background reading, attempts at skill performance, analysis and reflection on performance, discussion of potential improvements and successive performance of the skill with advancement to a new level of expertise. 2. The focus is on learning skills. You practice each skill, such as interviewing, in a variety of venues and situations of varying complexity. This course is for learning about how to do things that you will use for taking care of patients and families. 3. You work in multiple learning environments. a. Academic environments: small group sessions for discussion, small group practice sessions, peer learning, small group presentations, individual and group writing assignments, and reflections on experiences are the preferred
learning locations. b. Clinical environments: inpatient units with faculty and WUSM IV mentors, standardized patient experiences with videotape review, physicians’ offices, patients’ homes with and without home care professionals, and a city clinic. Credit 198.5 units.

M25 Medicine 604 Physicians, Patients and Society: Clinical Skills
Credit 43 units.

M25 Medicine 605A Infectious Diseases
The Infectious Diseases course teaches both organism-specific and organ-specific approaches to disease caused by microbes. The course expands upon the material presented in the first year concerning bacteria, viruses, fungi and parasites and their involvement in causation of human disease. It explores the complex interaction between microbes and host in the individual patient, and at the broader public health level. Educational methods include lecture, interactive in-class case discussions and review sessions, and student-led clinical case discussions in small groups. Credit 51 units.

M25 Medicine 606A Rheumatology
A major focus of the course is teaching “how to think like a rheumatologist”, emphasizing the concept of clinical diagnosis: the history and physical generate a clinical hypothesis, which is supported by laboratory tests. Inflammatory arthritis (rheumatoid arthritis, spondyloarthopathies, crystalline disorders, and infectious arthritis), classic “autoimmune diseases” (lupus, inflammatory myopathy, and scleroderma), and vasculitic syndromes are presented. A team based learning exercise on rheumatology lab tests gives students a chance to teach one another the details. Two separate sessions with four unknown patients gives students a chance to interview patients and try to make a diagnosis. Credit 17 units.

M25 Medicine 607 Practice of Medicine II
The goal of The Practice of Medicine (POM) course is to provide students with the knowledge, skills and attitudes essential to patient care regardless of specialty. POM II is a continuation of POM I and will continue to address various interfaces between patients, physicians and society and will also introduce the advanced physical exam and approaches to clinical thinking and decision-making. The sections of POM II include Clinical Skills, Case Development, Communication Skills, Ophthalmology, Radiology, Community and Public Health, Ethics and Health Policy Humanities, and Scientific Methods. The learning objectives for each section of POM II emphasize topics and skills used in all fields of medicine, and the majority of the course work will be taught in small groups or through clinical experiences. Credit 89 units.

M25 Medicine 608 Practice of Medicine II: Patient Sessions
Credit 23.5 units.

M25 Medicine 611B Cardiovascular Disease
Cardiovascular disease remains the number one cause of death within the United States, although steady advances in the field have greatly reduced both its associated morbidity and mortality. This course provides a foundation for understanding the pathophysiology, diagnosis, and management of cardiovascular conditions commonly encountered in clinical practice, including hypertension, ischemic heart disease, heart failure, arrhythmias, valvular heart disease, pericardial diseases, aortic diseases, peripheral arterial disease, and venous disorders. An emphasis is placed on describing the current state of knowledge in cardiology while also including some of the exciting new developments that are revolutionizing patient care. The course includes lecture overviews of each topic along with small group and team-based learning sessions to solidify and apply knowledge of the material to patient case scenarios. In addition, “EKGs of the Week” allow students to practice a structured approach to the interpretation of EKGs. Credit 30 units.

M25 Medicine 612B Pulmonary Diseases
The pulmonary pathophysiology course is designed to familiarize medical students with the pathophysiological mechanisms underlying diseases of the pulmonary system. The course begins with a brief review of pertinent pulmonary physiology and pulmonary function, and then explores how pathologic disorders alter normal lung physiology resulting in the clinical presentation of disease. Major categories of clinical pulmonary diseases discussed include obstructive lung diseases, restrictive lung diseases, pulmonary vascular diseases and pleural disease. Educational methods include lectures, team-based learning and review sessions. Credit 22.5 units.

M25 Medicine 613B Renal & Genitourinary Diseases
This course focuses upon the wide variety of renal diseases. It will begin with a brief review of pertinent renal physiology, and then will explore disorders of fluids/electrolytes (abnormalities in plasma water/solute balance), patterns of acute and chronic kidney injury (including nephritic/nephrotic syndromes and renal involvement in systemic disorders), and finally the options available when end stage kidney disease is reached (hemodialysis, peritoneal dialysis, transplantation). The course contains a mixture of lecture, small group, team based learning, case-based presentations, and patient presentation. Credit 38 units.

M25 Medicine 614 Dermatology
The dermatology second-year course is designed to provide medical students with a foundation in dermatology that will support future learning and improve diagnostic skills in general medicine and a wide variety of specialties. Medical students will learn how to describe skin lesions and the pathophysiologic basis and clinical characteristics of major dermatologic diseases. Major categories of clinical skin diseases and their most prominent constituents will be discussed, including papulosquamous diseases, blistering diseases, infectious diseases, and benign and malignant neoplasms. Credit 8 units.

M25 Medicine 615A Endocrinology and Metabolism
The endocrine pathophysiology course aims to provide an understanding of the pathophysiology and clinical manifestations of common endocrine disorders. Emphasis is placed upon relevant clinical history and physical examination as well as the interpretation of investigations for endocrine disorders. Basic principles of treatment of endocrine disorders will also be discussed. Lectures are supplemented by organ-specific clinical case discussions.
III Ambulatory Care Rotation. Three students at a time are assigned to this four-week rotation. Students will spend their first day in an orientation session learning suturing, ECG interpretation and airway management (including intubation skills) in hands-on laboratories. They will also review pelvic examinations and view an education video on domestic violence. On day two, they begin primarily evaluating non-emergent patients in Urgent Care and report directly to an Emergency Medicine attending. There are four hours of conferences per week (8-10 a.m. on Tuesday and Wednesday mornings) — attendance is mandatory. Discussions are currently underway to allow students to participate in helicopter ride-alongs with ARCH Airmedical Services. Students can expect to gain a wide range of skills in evaluating uncomplicated upper respiratory infections, urinary tract infections, sexually transmitted diseases, lacerations, eye problems, rashes, simple extremity trauma — in general, “bread and butter” medical/surgical problems. Students do a case presentation (15 min.) at the close of the block. 

Credit 154 units.

M25 Medicine 715 Ambulatory Clerkship: Urgent Care
The Urgent Care area (UCA) serves as our site for the WUSM III Ambulatory Care Rotation. Three students at a time are assigned to this four-week rotation. Students will spend their first day in an orientation session learning suturing, ECG interpretation and airway management (including intubation skills) in hands-on laboratories. They will also review pelvic examinations and view an education video on domestic violence. On day two, they begin primarily evaluating non-emergent patients in Urgent Care and report directly to an Emergency Medicine attending. There are four hours of conferences per week (8-10 a.m. on Tuesday and Wednesday mornings) — attendance is mandatory. Discussions are currently underway to allow students to participate in helicopter ride-alongs with ARCH Airmedical Services. Students can expect to gain a wide range of skills in evaluating uncomplicated upper respiratory infections, urinary tract infections, sexually transmitted diseases, lacerations, eye problems, rashes, simple extremity trauma — in general, “bread and butter” medical/surgical problems. Students do a case presentation (15 min.) at the close of the block. 

Credit 154 units.
M25 Medicine 740 Dermatology Clerkship
The goal of the dermatology clerkship is to provide a guide for the student to appreciate dermatology within the broader perspectives of medicine and biology. The student will develop familiarity with dermatologic vocabulary, learn to recognize and initiate therapy of common dermatologic disorders and become cognizant of uncommon or complicated dermatologic problems that require specialty care. Emphasis will be placed on careful history taking and physical examination. Students will always work under the direction of the resident physician and the attending physicians in the clinic setting.

Credit 154 units.

M25 Medicine 750 Geriatrics Clerkship
The primary goal of this rotation is for students to gain proficiency in the principles of geriatric evaluation and management, including the medical, psychological, social, and functional assessments of older adults. Students are expected to participate in the evaluation of three to five patients per week, in a variety of settings including the outpatient Geriatric Assessment Clinic, inpatient Geriatric Consult service, Parc Provence nursing home, and the Rehabilitation Institute of St. Louis (TRISL). Students will also have the opportunity to participate in hospice and home care visits, interdisciplinary team meetings, and observe an assessment at the Washington University Alzheimer’s Disease Research Center. Students are expected to attend weekly conferences while on the rotation. The day normally begins at 8:30 a.m. and is usually finished by 5:30 p.m. There is no night or weekend call. Time is provided to read the detailed syllabus/bibliography. Many clinical activities are off-site from the medical campus. Students will be required to coordinate transportation to and from such sites. Students will be expected to give an oral presentation on a topic of their choice once during the rotation.

Credit 154 units.

M25 Medicine 801 Honors Medicine - General Medicine
The purpose of the Honors Medicine elective (sub-internship) at the VA Medical Center is to develop proficiency in the care of hospitalized patients on an internal medicine ward. Sub-interns will have similar responsibilities as interns, with appropriate supervision by the attending and resident physicians. They have the same on-call/admitting schedules as the interns and participate in the same teaching conferences, but they do not take overnight call. Sub-interns should admit at least two patients per call day, and they should be the first to evaluate the patients admitted to the medical service, except in emergencies. A diagnostic and therapeutic approach to evaluating each patient is planned in consultation with the resident. Sub-interns assume primary responsibility for the daily care of their patients, including evaluating each patient daily, presenting on morning rounds entering orders (discussed with and co-signed by the resident), interpreting results of diagnostic studies, calling consultations, collaborating with nurses and social work, organizing post-discharge care, and communicating with patients and their families. Sub-interns also attend weekly small group learning sessions during which they discuss, diagnose, and treat patients using example cases. By the end of the VA Honors Medicine rotation, sub-interns will be able to independently: - Synthesize and succinctly present a patient’s history, exam, diagnostic data, assessment, and plan of care. - Support differential diagnoses and proposed care plans with clinical reasoning and evidence. - Demonstrate how to correctly order diagnostic tests and medications that further patient care. - Analyze complex patient cases during interactive small group learning sessions. Integrate feedback from patients, residents, and attending physicians, and formulate a plan for ongoing improvement as a clinician.

M25 Medicine 810 Geriatric Medicine
The primary goal of this rotation is for students to gain proficiency in the principles of geriatric evaluation and management, including the medical, psychological, social, and functional assessments of older adults. Students are expected to participate in the evaluation of three to five patients per week, in a variety of settings including the outpatient Geriatric Assessment Clinic, inpatient Geriatric Consult service, outpatient and home-based Primary Care, and the Rehabilitation Institute of St. Louis (TRISL; optional). Students will also have the opportunity to participate in hospice and home care visits, interdisciplinary team meetings, and observe an assessment at the WU Alzheimer’s Disease Research Center. Students are expected to attend weekly conferences while on the rotation. The day normally begins at 8:30 a.m. and is usually finished by 5:30 p.m. There is no night or weekend call. Time is provided to read the detailed syllabus/bibliography. Many clinical activities are off-site from the Medical Campus; students will be required to coordinate transportation to and from such sites. Students will be expected to give an oral presentation on a topic of their choice once during the rotation.
M25 Medicine 811 Clinical Internal Medicine - Hospitalist
This course allows the student to work one-on-one with hospitalist physicians on a patient care team. The student acts as the intern under the direct supervision of the attending physician. Daily responsibilities include admission history and physicals, daily notes and discharge summaries on assigned patients. They also will have the opportunity to perform indicated procedures on patients on this service. Students are encouraged to participate in Department of Medicine conferences.

M25 Medicine 814 Clinical Emergency Medicine - Barnes-Jewish Hospital
This rotation offers practical experience in the evaluation and management of acutely sick and injured patients. Students will function as sub-interns, initially evaluating their assigned patients and developing a plan for further diagnostic studies and therapy. They will report to a senior-level resident or an attending physician. The student can expect to get an opportunity to perform a wide variety of procedural skills such as suturing, splinting, peripheral and central venous access, and cardiopulmonary resuscitation. Shifts will be eight hours, and students will rotate between day, evening and night shifts, including weekend shifts, in order to gain maximum exposure to all types of emergencies. A core content of lectures will be provided. Students will gain an understanding of prehospital care by doing a ride-along shift with the St. Louis Fire Department EMS. Students will also gain knowledge of the basics of ultrasound during their time in the department. Students interested in EM will be doing 1:1 shifts with a single attending during their last two weeks of the rotation. Students desiring a letter of recommendation from any EM attending should take this WUSM IV Emergency Medicine rotation. Students will be scheduled for required weekend and overnight shifts, and changes will not be allowed to the schedule unless approved prior to the start of the rotation by the course coordinator. Please be advised that there is a limit of days off while on this rotation during interview season; otherwise, students should arrange to take the elective at a different time during the year. Days off during the rest of the year will conform to university policy. Days off should be requested from the course coordinator at least two weeks prior to the beginning of the rotation for scheduling purposes.

M25 Medicine 821 Inpatient Cardiology
Students will participate as members of the Barnes-Jewish Cardiology at Washington University Consultative Team. They will be part of a team composed of faculty members, fellows, residents, and nurse practitioners that sees a large population of cardiac patients and follows them through all aspects of their in-hospital care. Emphasis will be placed on physical examination and the interpretation of modern cardiac diagnostic tests including electrocardiograms, echocardiograms and coronary angiograms and their role in clinical decision making.

M25 Medicine 822 Honors Medicine - Cardiology
The structure and functioning of the Honors Medicine-Cardiology elective (sub-internship) is very similar to the general medicine sub-internship (M25 801). The basic purpose is to develop expertise in the care of hospitalized patients in a well-supervised teaching environment. The majority of patients admitted to the service will have a cardiology diagnosis as the main reason for admission. Some general medical problems will also be seen. All attendings on the service are cardiology subspecialists. Cardiology fellows act as the chief resident for the service on a monthly basis. Sub-interns act as their patients’ interns under the supervision of residents and attending physicians. Sub-interns have the same on-call and admitting schedules as the interns on their teams and are assigned up to two new patients on each admitting day. Sub-interns are not required to spend call nights in the hospital. Except in emergencies, sub-interns are the first individuals to evaluate patients admitted to medical service teams. A diagnostic and therapeutic approach to the patient is planned in consultation with the resident. Sub-interns assume primary responsibility for the daily care of their patients, under the supervision of resident and attending physicians. This includes evaluation on daily rounds, scheduling and obtaining results of diagnostic studies, planning therapy, making arrangements for care after discharge, and communicating with patients and their families. Sub-interns attend the same conferences as the internal medicine house staff. There are also several conferences specific to the cardiology service.

M25 Medicine 823 Clinical Cardiology - VA Hospital
The major purpose of this elective in clinical cardiology at the John Cochran VA Hospital is to improve evaluation and management skills for diagnosis and treatment of important cardiovascular conditions such as coronary artery disease including acute myocardial infarction, congestive heart failure, hypertension, and valvular heart disease. The rotation is designed to be flexible enough to accommodate a wide variety of course objectives but includes the opportunity to participate in 1-3 outpatient clinics per week; 1-4 weeks of inpatient intensive care, telemetry, or cardiology consultation rounds; and ECG, stress testing, nuclear imaging, or echocardiographic reading sessions, cardiac catheterization and electrophysiologic procedures. The emphasis will be on improvement of the ability to diagnose and treat cardiovascular diseases on the basis of information obtained from a thorough history and physical examination that is integrated with data from appropriate highly targeted laboratory studies in a manner that optimizes patient outcome and minimizes risk and costs.

M25 Medicine 825 Cardiac Arrhythmias and Electrophysiology
This elective provides the student with exposure and teaching in the diagnosis and treatment of complex cardiac rhythm disturbances. Specifically, the student is expected to evaluate patients referred for evaluation and treatment of complex or life-threatening rhythm disturbances, unexplained syncope or sudden cardiac death. Rounds are made daily on hospitalized patients, and students are welcome to observe electrophysiology studies or implantation of pacemakers and defibrillators. This elective also provides an intensive opportunity to learn clinical electrocardiography and the systematic use of anti-arrhythmic drugs. Finally, since patients with chronic, complex rhythm disturbances frequently have organic heart disease, a broad-based exposure to general cardiology is also part of this elective.

M25 Medicine 827 Heart Failure/Cardiac Transplantation
This rotation is intended to provide trainees with a comprehensive experience managing patients with advanced heart failure. In addition to daily rounds, trainees are invited to attend both heart failure and transplant clinics. Further, the curriculum is supplemented by a comprehensive syllabus that contains the critical literature pertinent to the patient population. The trainees will also have experience with the evaluation of patients for operative heart failure therapies and will have the opportunity to observe these surgical procedures.
M25 Medicine 830 Dermatology
The aim of this elective is to provide a guide for students so that they are able to appreciate dermatology within the broader perspectives of medicine and biology. Emphasis will be placed on the dermatologic variations encountered in a normal physical examination of the skin, the identification of common skin diseases, dermatologic clues to systemic disease, as well as those dermatologic conditions that are life-threatening. The student will participate in outpatient care in the Barnes-Jewish Hospital and affiliated clinics. Students will attend all clinical teaching rounds and conferences in addition to the basic science and cutaneous histopathology conferences.

M25 Medicine 831 Pediatric Dermatology
This clinical rotation will be available to students interested in dermatology, pediatrics or both. Students will follow the dermatology rotation (M25 830) with an emphasis on pediatric dermatology by attending pediatric dermatology clinics, seeing consultations, etc. Enthusiastic students will have an opportunity to write up a case report if they wish, but need to notify the instructor before the course.

M25 Medicine 834 Clinical Mentoring
This elective is designed to develop the teaching and mentoring skills of our fourth-year medical students through structured hospital sessions with first-year medical students. The primary format of the elective is observation of two first-year students during hospital sessions that span from September-April. During these hospital sessions the first-years perform the H&P, and the fourth-year mentors observe and offer constructive feedback. Each session will have an accompanying H&P written by the first-year student, which is to be thoroughly reviewed and critiqued by the fourth-year mentor. Additional practice sessions are optional and can be individually arranged between teams where the fourth-year mentor can assist the first-year student on personalized skills that are identified by their individualized learning goals. A small number (2-3/year) of in-person sessions will occur with clinical faculty instructors to review teaching methods, assist in giving feedback, and to help the fourth-year mentor to acquire skills necessary for supervision of medical students during internship/residency. The schedule is very flexible, and there are no active clinical responsibilities during December/January to allow time off for interviews.

M25 Medicine 836 Clinical Gastroenterology and Hepatology
The GI Hepatology elective is integrated into a very active inpatient and endoscopy service at Barnes-Jewish Hospital. Students will participate in the evaluation of inpatients with a spectrum of gut and liver disorders, will make patient rounds with the faculty and fellows, and have responsibility for patients on whom consultations have been requested. In addition, they will observe general endoscopic techniques and participate in GI conferences.

M25 Medicine 836A Treatment of Patients with Inflammatory Bowel Disease
This elective will allow students to spend an intensive period of time learning about all aspects of the care of patients with IBD (surgical, endoscopic, and medical management). Although a predetermined schedule has been developed, it can be modified based on the student's interest. Alternative options include: inpatient IBD care (Barnes-Jewish Hospital and Barnes West County); wound clinic / stoma care; specialized endoscopy (chromoendoscopy, ERCP); IBD / colorectal surgery; pathology.

M25 Medicine 838 Medicine Consult Service
The focus of the Medicine Consult Service elective is the evaluation and management of medically complex patients admitted to the hospital on non-medicine services. The issues involved with peripoperative management are particularly stressed. The student will function as a member of the consult service team. Duties will include performing initial consultations and follow-up care under the supervision of a Hospital Medicine attending and a senior medical resident. Attendance at Department of Medicine and division conferences is encouraged.

M25 Medicine 842 Introduction To Wilderness Medicine
The purpose of this course is to introduce medical students to common medical problems both emergent and nonemergent seen in various wilderness settings. After taking this course the student should have a basic understanding of the pathophysiology and management of these problems in an environment with limited access to medical aid. The course will involve four days of four-hour lectures each week along with one 1-2 day required overnight camping trip. Requirements to pass this course include completing a presentation on a topic of their choosing that is approved by the course director as well as a skills and written test.

M25 Medicine 843 Medical Toxicology
This rotation offers practical experience in the evaluation and management of the acutely ill poisoned patient. Students will function as sub-interns and either report to the senior resident, fellow, or directly to the toxicology attending. Students will gain familiarity and experience evaluating and treating patients who have intentionally and unintentionally overdosed on medications or illicit drugs, been envenomated (such as by spiders, snakes, or other reptiles), or been exposed to toxic substances or chemicals. Students will also gain experience in administering antidotes and learning to properly decontaminate someone after an ingestion or exposure. There are no overnight or weekend shifts. Daily activities start in the morning and are generally concluded by the early afternoon. A core content of lectures will be provided. The students will also be assigned small projects during their rotation that will enhance their experience particularly in environmental and occupational toxicology. Opportunities to increase their experience with occupational toxicology also exist during this rotation; those with this interest can ask for further information during their rotation. Students will also have the opportunity to go to the Missouri Poison Center and evaluate patients in the outpatient toxicology clinic. Students desiring a letter of recommendation from one of the toxicology attendings (who are also Emergency Medicine and Internal Medicine attendings) or interested in Emergency Medicine or Medical Toxicology should take this elective. Also, students considering other specialties such as Pediatrics or Internal Medicine should consider this rotation as they will be responsible for evaluating these patients as part of their inpatient or outpatient practice. Please be advised that there is a limit of days off while on this rotation during interview season; otherwise, students should arrange to take the elective at a different time during the year. Days off should be requested from the course coordinator at least two weeks prior to the beginning of the rotation for scheduling purposes. Students should receive a course guide just prior to their rotation. However if they do not, they can page the toxicology pager at 314-672-0284 to determine when and where to meet for rounds.

M25 Medicine 844 Introduction to Wilderness Medicine
M25 Medicine 844 Hematology and Hemostasis
Activities include work-up of patients at Barnes-Jewish Hospital under the supervision of the hematology fellow and faculty; attendance at daily clinical rounds for 1-1.5 hours per day. These are staffed by a senior faculty in the Division of Hematology. In addition to evaluation of patients with hematologic disorders, the student will gain additional analytic skills including: 1. Interpret and integrate laboratory data in the diagnosis of anemia and pancytopenia; 2. Review peripheral blood and bone marrow morphology; 3. Analyze laboratory data for the diagnosis of thrombophilia and bleeding; 4. Discern the principles of blood banking and pheresis. The students will have the opportunity to follow patients with sickle cell disease and understand the treatment of this disorder. The student is expected to attend and participate in the weekly hematology conference.

M25 Medicine 847 Bone and Mineral Diseases
The course is designed to acquaint the student with the clinical, radiological and pathological manifestations and treatment of disorders of bone and mineral metabolism, including osteoporosis, Paget's disease of bone, hyperparathyroidism, osteomalacia, and more rare disorders of bone development and homeostasis. The student will rotate through clinics of the Division of Bone and Mineral Diseases, and see patients at Barnes-Jewish Hospital, Barnes-Jewish West County Hospital and Shriners Hospital for Children. Acquired and heritable bone diseases will be studied in the context of derangements of mineral homeostasis with emphasis on vitamin D and peptide hormone metabolism and skeletal formation and remodeling. The role of non-invasive methods for measuring bone mass in the diagnosis and management of skeletal diseases also will be stressed. Faculty and medical students will present interesting cases for discussion or the students can present a pertinent topic related to bone metabolism they have researched during their rotation.

M25 Medicine 853 Bone and Joint Infectious Disease Consult
Study of infectious diseases of the bones and joints, including infections in both native and prosthetic joints. The elective is designed to teach students the fundamentals of evaluating clinical orthopedic infections and formulating plans for workup and therapy. Students see consultations in infectious diseases in every part of Barnes-Jewish Hospital under the supervision of a faculty member who rounds with them every day. They work closely with the infectious diseases attending and nurse practitioner, follow their own patients and play an important role in their management. They are expected to read the literature about their patients and participate in clinical conferences. They attend teaching rounds and conferences and lectures in infectious diseases. They also learn appropriate use of antibiotics and antifungal agents. The role of surgical and medical management is discussed, and the students will interact with surgical staff in understanding the risks and outcomes of these common infections. Two weeks of General Inpatient Infectious Disease are a prerequisite to this course.

M25 Medicine 854 Transplant Infectious Disease
Study of infectious diseases in patients who have had bone marrow or solid organ transplants, or who have a hematologic malignancy. The elective is designed to teach students the fundamentals of evaluating clinical infections in these complex and interesting patients and formulating plans for workup and therapy. Students see consultations in every part of Barnes-Jewish Hospital under the supervision of a faculty member who rounds with them every day. They work closely with infectious disease fellows, follow their own patients and play an important role in their management. They are expected to read the literature about their patients and participate in clinical conferences. They attend teaching rounds and conferences and lectures in infectious diseases. They also learn appropriate use of antibiotics, antifungal and antiviral agents. A wide distribution of infectious diseases is covered including management of neutropenic fever, invasive fungal infections in the transplant population, acute and chronic infections, infection prophylaxis and monitoring and interactions between immunosuppressive agents and antibiotics.

M25 Medicine 858 Ambulatory Infectious Disease
The elective is designed to teach students the fundamentals of evaluating clinical infections in the outpatient setting. Students see patients under the supervision of a faculty member. Students will participate in the care of HIV-infected or otherwise immunosuppressed patients as well as general infectious disease and travel patients. The clinic is the primary provider for HIV-infected patients, and students will learn the pathogenesis of HIV, become familiar with most antiretroviral medications, and have the opportunity to learn about opportunistic infections and their prophylaxis. They will also have the opportunity to see patients with bone and joint infections, endovascular infections, endemic and opportunistic mycoses, mycobacterial infections, sexually transmitted diseases, and many other infections. Patients seen will have a wide range of acute and chronic infections, and will include indigent and insured patients of both sexes and a wide range of ages. The students will play an important role in the management of these patients and will present their assessments and plans to the supervising attending. They are expected to write clinic notes, read the literature about their patients, and participate in clinical conferences.

M25 Medicine 859 General Inpatient Infectious Disease
Study of patients with infectious diseases, including inpatient care of HIV-infected patients and general infectious disease consults. The elective is designed to teach students the fundamentals of evaluating clinical problems in infection and formulating plans for workup and therapy. Students see consultations in infectious diseases in every part of Barnes-Jewish Hospital under the supervision of a faculty member who rounds with them every day. They work closely with medical residents and infectious disease fellows, follow their own patients and play an important role in their management. They are expected to read the literature about their patients and participate in clinical conferences. They attend teaching rounds and conferences and lectures in infectious diseases. They also learn appropriate use of antibiotics, antifungal and antiviral agents. A wide distribution of infectious diseases is covered including community-acquired acute and chronic infections, opportunistic infections in HIV-infected patients, hospital-acquired infections, and basic infection control practices. This is a four-week rotation. Two-week rotations are allowed, but must be done in conjunction with two weeks of Transplant Infectious Disease or Bone and Joint Infectious Disease.

M25 Medicine 861 Oncology - Inpatient Consult Service
Medical Oncology is a complex subspecialty that is undergoing a rapid evolution as a result of new systemic treatment approaches that stem from biological insights into the nature of cancer. During the course of the elective, medical students will be able to interact with attending physicians and patients for bed side...
teaching and attend tumor boards and lectures focused on the care of patients with solid tumors. At the end of the rotation, the students will appreciate the principles of our approach to cancer patients and should have gained insights into the evaluation and management of patients with newly diagnosed malignancies. The role of surgery, radiation, and systemic treatment will also be an important theme, as well as the conduct of clinical research in this patient population. Students will also learn to care for hospitalized patients suffering from complications from their cancer or from toxicities due to treatments. Oncologic emergencies will be covered. Issues such as palliative care treatment options and end-of-life decision making will be explored as well.

**M25 Medicine 862 Honors Medicine - Oncology**

The structure and functioning of the Honors Medicine-Oncology elective (sub-internship) is very similar to the general medicine sub-internship (M25 801). The basic purpose is to develop expertise in the care of hospitalized patients in a well-supervised teaching environment. The majority of patients admitted to the service will have an oncology diagnosis as the main reason for admission. Some general medical problems related to their cancer and their therapy will also be seen. All attendings on the service are oncology subspecialists. Sub-interns act as their patients' interns under the supervision of residents and attending physicians. Sub-interns have the same on-call and admitting schedules as the interns on their teams and are assigned up to two new patients on each admitting day. Sub-interns are not required to spend call nights in the hospital. Except in emergencies, sub-interns are the first individuals to evaluate patients admitted to medical service teams. A diagnostic and therapeutic approach to the patient is planned in consultation with the resident. Sub-interns assume primary responsibility for the daily care of their patients, under the supervision of resident and attending physicians. This includes evaluation on daily rounds, scheduling and obtaining results of diagnostic studies, planning therapy, making arrangements for care after discharge and communicating with patients and their families. Sub-interns attend the same conferences as the internal medicine house staff. There are also several conferences specific to the oncology service.

**M25 Medicine 863 Emergency Ultrasound**

This rotation will focus on ultrasound and all of its many applications and uses in the Emergency Department. Students will participate in the performance of bedside ultrasound of patients in the Emergency Department. Common applications of Emergency Ultrasound include the FAST exam, pelvic ultrasound, Abdominal Aortic Aneurysm (AAA), vascular access, renal, gallbladder, and DVT. In general, the student will be in the Emergency Department during weekdays to perform these exams. Students will be involved in direct patient care during this rotation. In addition, the student will meet with the elective instructor one to two times per week to review images and have direct hands-on instruction. At the end of the rotation, the student should have gained the knowledge of basic emergency ultrasound, including its indications and applications, as well as becoming more adept at the performance of ultrasound.

**M25 Medicine 865 Intensive Care Medicine**

This elective in intensive care is offered in the Intensive Care Unit at Barnes-Jewish Hospital, South Campus. This unit has 16 intensive care beds providing intensive nursing care and life-support technology. The patients represent a mixture of patients with primarily medical problems. Patient care responsibility includes night call. In addition to patient responsibility, there are regularly scheduled conferences and attending rounds.

**M25 Medicine 867 Medical Intensive Care**

This elective is offered as an opportunity to gain additional experience in acute, primary care medicine. The elective is an advanced course in patient care involving complex medical problems. Responsibilities involve working up new patients with the MICU team, case presentations and attendance at conferences. Conferences consist of attending rounds Monday through Saturday, radiology rounds Monday through Saturday, pulmonary conference and medical grand rounds on Thursday, and critical care conference once each month. Call schedule is every third night.

**M25 Medicine 869 Palliative Medicine**

The Palliative Medicine elective will focus on the care of patients with life-threatening or debilitating illness throughout the course of their care. Skills in symptom management, communication, and interdisciplinary team-based care will be the focus. Students will spend the majority of their time on the BJH Palliative Care Service. Based on the individual student's interest, there may also be opportunities to work with the BJC Hospice Team and the St. Louis Children's Hospital Palliative Care Service. While in the hospital, students will be responsible for seeing patients upon initial assessment as well as delivering follow-up care with the team. Patients will be seen for both end-of-life care as well as symptom management. Students will learn to assess and treat refractory symptoms and participate in complicated advanced care planning. Students will attend interdisciplinary team meetings, and may participate in conversations about goals of care and coping with bad news. They may also make home visits with hospice care providers, if desired. Emphasis will be placed on observing and understanding the psychosocial and spiritual needs of the patients, as well as the impact of the burden on caregivers. In addition, students will be expected to lead biweekly presentations/group discussions on selected aspects of Palliative Medicine with the BJH Palliative Care team.

**M25 Medicine 870 Endocrinology, Diabetes, and Metabolism**

In general, the four-week rotation will be divided into two weeks of general endocrinology and two weeks of diabetes. Students taking this elective will perform consults with fellows and faculty on the inpatient services at Barnes-Jewish Hospital and will also see patients with endocrine and metabolic diseases in the Outpatient Consultation. They will present these cases daily on teaching rounds. They will also participate in case conferences and seminars on a weekly basis. Extensive interaction with patients with diabetes and a diabetes education program are included, as is involvement with patients with thyroid, pituitary, adrenal, gonad, metabolic bone disease, and lipid disorders. Ample opportunities will be provided for discussions of patient problems with the members of the division. A variety of outpatient clinics are offered in the division, and interested students should speak with the fellows and faculty members to customize the learning experience to match their career goals. At the end of the rotation, it is expected that students will have the ability to initiate inpatient and outpatient management of diabetes including insulin dosing and glucose monitoring, as well as evaluate and treat of a variety of endocrine disorders including but not limited to thyroid, pituitary, and adrenal disease. Students will learn to perform effective inpatient and outpatient consultations.
M25 Medicine 871 Oncology - Outpatient
Students will gain experience in the initial treatment of newly-diagnosed malignancies and the outpatient management of oncology patients. Participation in multidisciplinary tumor conferences will stress a combined-modality approach to management, incorporating chemotherapy, radiotherapy and surgery. Students will see patients with a variety of malignancies, including lymphoma, myeloma, and tumors of the lung, breast, and colon. Management of hypercalcemia and other paraneoplastic syndromes, as well as cancer pain management, will be covered. Students will have the opportunity to see how most oncologists spend 90 percent of their workday. They will observe different styles that oncologists use when presenting news about prognosis, treatment options, and other information to patients while they also learn about the molecular basis for cancer, the mechanisms of action for our therapies (particularly the newer agents which target specific molecular abnormalities), and the key studies that justify the use of therapies (e.g., randomized studies showing that after surgery, chemotherapy will reduce the risk of recurrence from a particular cancer with a particular regimen). By spending time with clinicians, students will learn how to identify hereditary syndromes, use drugs for symptom relief, and also learn how radiographic and laboratory tests allow oncologists to care for patients.

M25 Medicine 877 Intensive ECG Interpretation
During this two-week elective, students will read 20-25 ECGs obtained from the Barnes-Jewish Cardiac Diagnostic Laboratory, with an overview by an experienced electrocardiographer. There will also be didactic sessions covering infarction, ventricular hypertrophy, heart block, arrhythmias, and aberrant conduction.

M25 Medicine 879 Pulmonary Clinic for the Underserved
Clinical setting: Outpatient clinic dedicated to providing pulmonary specialty care to patients who are predominantly uninsured or who rely upon public assistance such as Medicaid. Student role: Students independently interview and examine patients and present findings to the attending, tests and imaging are reviewed, and provider and attending develop plan. Common problems/diseases: Asthma, COPD, sarcoidosis, lung cancer, and obstructive sleep apnea are commonly seen. Also, patients are referred for evaluation of abnormal x-rays and for symptoms such as dyspnea. Primary learning objectives: to understand and practice important history and exam skills in pulmonary medicine; symptoms, smoking history, work and environmental exposures, and important pulmonary physical exam findings; to understand the basics of pulmonary function tests, chest imaging, and methods for tissue sampling; to understand the basis of treatment of common pulmonary disorders. Conferences: There is no conference associated with this clinic, but students may attend the usual Thursday morning Medicine Grand Rounds at 8:00 a.m. and the Pulmonary Grand Rounds at 11:00 a.m. if the subject matter is appropriate.

M25 Medicine 880 Pulmonary Medicine - Barnes-Jewish Hospital
Students will acquire skills in the evaluation and management of patients with pulmonary diseases and in the interpretation of pulmonary function tests. They will gain experience in outpatient Lung Center and attend regular pulmonary and critical care medicine conferences.

M25 Medicine 884 Bone Marrow Transplantation and Stem Cell Biology
Intense four-week clinical rotation exposing interested fourth-year medical students to the clinical world of bone marrow transplantation and to the basic science of hematopoiesis, leukemia, and stem cell biology. Students will be primarily responsible for the care of autologous and allogeneic BMT recipients and those patients being treated for a variety of hematologic malignancies such as AML, ALL, multiple myeloma and non-Hodgkin's lymphoma. In addition they will be exposed to methods of stem cell harvest, cryopreservation and immunophenotyping. This rotation plans to provide motivated students with an ideal mix of clinical medicine and basic science.

M25 Medicine 887 Clinical Cardiovascular Medicine

M25 Medicine 890 Clinical Nephrology
Students rotate through inpatient and outpatient experiences to gain exposure to all facets of nephrology. They will spend time the majority of their time on an inpatient consult service, gaining exposure to acute and chronic renal failure, glomerulonephritis, and electrolyte disorders. During this time, they will serve as a fully integrated member of the consult team, evaluating underlying causes of kidney disease, performing diagnostic procedures, formulating management plans, and engaging in decision-making discussions with primary services and families. In addition, students will have the opportunity to experience ICU nephrology, the transplant service, the various CKD clinics, and all modalities of dialysis, including in-center, home, and peritoneal dialysis.

M25 Medicine 890A Kidney Transplant
Students participating in this elective will: gain exposure to end-stage renal disease and the treatment options; examine kidney transplantation as the most valuable option; learn about immunosuppression; and gain exposure to infectious diseases like CMV, BK, and adenovirus that are commonly seen in patients that have had a kidney transplant (and not often seen otherwise).

M25 Medicine 893 Adult Allergy and Clinical Immunology
Students will participate in the outpatient Allergy Clinics located in Barnes-Jewish Hospital Center for Advanced Medicine, Barnes-Jewish West County, and Center for Advanced Medicine South County. Students will participate in allergy skin testing, pulmonary function testing, and drug desensitization. They can attend allergy conferences on Thursday morning. Students have the option to follow a fellow and see inpatient consults at Barnes-Jewish Hospital.

M25 Medicine 900 Research Elective - Internal Medicine
Research opportunities may be available. If interested, please contact the Department of Internal Medicine.