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.

Research

For information about Primary Care Summer Preceptorships (p. 5), please refer to the information at the bottom of this section.

M25 Medicine 900

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 antithrombotics 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 T. Milliken
Department of Medicine

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

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.

Thomas M. DeFer, MD
6604 Wohl Hospital
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Email: tdefer@wustl.edu
Special Projects in Medical Education. Through special arrangement with and approval by the course master, fourth-
Gene knock-down and pharmacological targeting to verify the cell lines and tissues, and functional studies using gene transfer, genomic data, confirmatory studies on gene over-expression in commitment but participation may include interpretation of scope of the project will be commensurate with elective time on projects that relate to individual oncogene candidates. The major focus in the laboratory. Elective students will focus a major focus in the laboratory. Elective students will focus on projects that relate to individual oncogene candidates. The scope of the project will be commensurate with elective time commitment but participation may include interpretation of genomic data, confirmatory studies on gene over-expression in cell lines and tissues, and functional studies using gene transfer, gene knock-down and pharmacological targeting to verify the identity of bona fide therapeutic targets for further investigation. Attendance at weekly lab meetings is expected.

Bradley Evanoff, MD, MPH
Phone: 314-454-8638
Occupational medicine epidemiology and intervention research. My research involves the use of epidemiology methods to characterize associations between diseases and work-related exposures. I am 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@wusm.wustl.edu or Lisa Hayes
Email: hayesli@wusm.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 masters 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.

Keith A. Hruska, MD  
McDonnell Pediatric Research Building, 5th Floor  
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Our laboratory's focus is on two aspects of kidney diseases: the progression of chronic kidney disease (CKD), and the syndrome of the CKD-mineral bone disorder (CKD-MBD). The latter is an important cause of mortality associated with CKD. We have discovered the pathogenesis of the CKD-MBD in early stage 2 CKD. We have ongoing studies of CKD stimulated vascular calcification in which we have discovered the mechanism of atherosclerotic plaque calcification stimulated by phosphorus. We are analyzing phosphorus as a cardiovascular risk factor, and new therapies for chronic kidney disease, the CKD-MBD, and vascular calcification.

Stuart A. Kornfeld, MD  
Clinical Sciences Research Building, 8th Floor  
Phone: 314-362-8803

Synthesis, processing and sorting of glycoproteins, including lysosomal enzymes. Intracellular protein trafficking.

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.

Jack Ladenson, PhD  
Phone: 314-454-8436

Development of monoclonal and single-chain antibodies for use in research and in diagnostic testing.

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.

Jeffrey D. Milbrandt, MD, PhD  
101 Biotechnology Center  
Phone: 314-362-4650

We have several ongoing projects in our laboratory that focus on peripheral neuropathy and neurodegenerative diseases. (1) Using high throughput screening methods to dissect the molecular program responsible for dismantling injured and/or unhealthy axons with the goal of identifying drugs to treat neurological disorders. (2) Using genetics and metabolomics to understand how metabolic deficits in glia lead to neuropathy and axon breakdown. (3) Developing new genetic tools for in vivo and in vitro assays aimed at characterizing the role of non-myelinating Schwann cells in acquired peripheral neuropathies such as diabetic neuropathy. (4) Implementing novel, high-throughput genome engineering technologies in induced pluripotent stem cell-derived neurons to perform functional genomic screens for pathways involved in axon regeneration.

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 organellar 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.
Stimulus-secretion coupling in endocrine cells (B-islet cells and adrenal chromaffin cells) examined using single-cell assays of secretion (capacitance measurements, amperometry).

Clinical research concerning substrate (glucose and lipid) metabolism and the regulation of weight and body composition in persons with mental illness, particularly concerning the effect of psychotropic medications. This elective offers the student a broad exposure to clinical research protocols, including protocols in adults and children. Students will have an opportunity to focus on a particular project of interest.

Clinical outcomes in patients with cardiac implantable electronic devices (CIEDs): Clinical research to evaluate outcomes in patients with cardiac implantable electronic devices (CIEDs).
1. Risk of stroke in patients with patent foramen ovale and CIEDs.
2. Predictors of hemodynamically unstable ventricular arrhythmias in patients with left ventricular assist devices (LVADs).

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.

My 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.

Gene therapy for lysosomal storage diseases. Our laboratory is interested in using gene therapy to treat lysosomal storage diseases such as mucopolysaccharidosis (MPS). We have developed a retroviral vector that can be efficiently delivered to the liver of mice and dogs, and results in expression that is sufficient to reduce many of the clinical manifestations of these genetic diseases. Current studies focus upon assessing the therapeutic effect of gene therapy on sites that are affected in MPS such as the heart, aorta, bones and joints, and developing vectors that might be translated into human patients. In addition, we are evaluating the pathogenesis of disease in MPS, which appears to involve the upregulation of destructive proteases in the aorta and possibly other sites. A better understanding of the pathogenesis of disease might result in additional therapies for MPS.

Fatty acid metabolism and its role in atherosclerosis, diabetes, hypertension and obesity. The modulation of respiratory uncoupling for the treatment of aging, obesity and vascular disease.

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 allergenic 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 physicochemical 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 atrax, 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

Daniel M. Goodenberger, MD  
Professor of Medicine  
Chief, Veteran's Administration

Richard W. Gross, MD, PhD  
Professor of Medicine  
Chief, Division of Bioorganic Chemistry and Pharmacology

Michael J. Holtzman, MD  
Selma and Herman Seldin Professor of Medicine  
Chief, Division of Pulmonary and Critical Care Medicine

Benjamin D. Humphreys, MD, PhD  
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Chief, Division of Nephrology

Samuel Klein, MD  
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Science  
Chief, Division of Geriatrics and Nutritional Sciences

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Tobias and Hortense Lewin Professor of Medicine  
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Dr. J. William Campbell Professor of Medicine  
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J. Evan Sadler, MD, PhD  
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Irene E. and Michael M. Karl Professor of Endocrinology and  
Metabolism in Medicine  
Chief, Division of Endocrinology, Metabolism and Lipid Research

Mark S. Thoelke, MD  
Associate Professor of Medicine  
Chief, Division of Hospital Medicine

H. James Wedner, MD  
Dr. Phillip and Arleen Korenlat Professor  
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Visit our website for more information about our faculty (https://internalmedicine.wustl.edu/divisions) and their appointments.

A

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Instructor in Medicine (primary appointment)
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Michael Charles Bennett, MD
Instructor in Medicine (primary appointment)
MD Vanderbilt University 2010

Susan Berdy, MD
Assistant Professor of Clinical Medicine (primary appointment)
BA Brown University 1980
MD Saint Louis University 1984

Daniel Ralph Berg, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 2000
BS Brown University 1994

Michael A Berk, MD
Professor of Clinical Medicine  (primary appointment)
BA Northwestern University 1974
MD Indiana University Bloomington 1979

Carlos Bernal-Mizrachi, MD
Philip E & Carolyn E Cryer Professor of Medicine (primary appointment)
Associate Professor of Cell Biology and Physiology
MD Universidad del Valle Med Sch 1990

Aaron M Bernstein, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD University of Chicago 1952
BA Washington Univ in St. Louis 1948

Keith A Bernstein, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Missouri 1987
BA University of MO Kansas City 1987

Marc Jordan Bernstein, MD
Associate Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1992
BA Haverford College 1988

Douglas R Berson, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Pennsylvania 1983
BA Lehigh University 1981

Amit Indra Bery, MD
Instructor in Medicine (primary appointment)
MD Washington Univ in St. Louis 2014

Pavan Kumar Bhamidipati, MD
Instructor in Clinical Medicine (primary appointment)
MD Guntur Medical College 2007

Anita R. Bhandiwad, MD
Associate Professor of Medicine (primary appointment)
BA Northwestern University 1994
MD Northwestern University 1998

Mythili C. Bharadwaj, UNKNOWN
Instructor in Clinical Medicine (primary appointment)
UNKNOWN University of Madras 1988

Rakhee Kapadia Bhayani, MD
Associate Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 1999

Stanley I Biel, MD
Instructor in Clinical Medicine (primary appointment)
BA Rockford College 1974
MD University of Illinois 1978

Michael Biersmith, MD
Instructor in Medicine (primary appointment)
MD Eastern Virginia Med School 2014
BS University of Notre Dame 2010

Joseph John Billadello, MD
Associate Professor of Medicine (primary appointment)
MD Georgetown University 1978
BS State University of New York 1973

Ellen F Binder, MD
Professor of Medicine (primary appointment)
Professor of Occupational Therapy
MD Washington Univ in St. Louis 1981
BA Davenport University 1977

Aaron Birenbaum, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1948

William D Birenbaum, MD
Instructor in Clinical Medicine (primary appointment)
BA Washington Univ in St. Louis 1978
MD University of Missouri 1983

Clifford Allen Birge, MD
Assistant Professor of Clinical Medicine (primary appointment)
BA Amherst College 1956
MD Washington Univ in St. Louis 1961

Stanley J Birge, MD
Associate Professor of Medicine (primary appointment)
BA Amherst College 1959
MD Washington Univ in St. Louis 1963

Thomas M Birkenmeier, MD
Assistant Professor of Medicine (primary appointment)
BA Washington Univ in St. Louis 1978
MD Washington Univ in St. Louis 1982

Kumar Sanjeev Bishnupuri, PHD, MS
Instructor in Medicine (primary appointment)
BS Tilka Manjhi Bhaagapur Univ 1988
PHD Banaras Hindu University 1999
MS Banaras Hindu University 1992

Valerie Blanc, PHD, MS
Instructor in Medicine (primary appointment)
PHD University of Bordeaux 2 1996
MS University of Bordeaux 2 1992

Melvin S Blanchard, MD, BBA
Professor of Medicine (primary appointment)
Director of Residency Program, Department of Internal Medicine
MD University of Tennessee 1994
BBA Trevecca Nazarene College 1987

Merilda O Blanco-Guzman, MD
Instructor in Medicine (primary appointment)
MD PUCMM FACULTAT DE CIENCIAS DEL 2004

Elizabeth Joy Blaney, MD
Assistant Professor of Medicine (primary appointment)
BA Eastern Michigan University 2003
MD Ohio State University 2007

Morey A Blinder, MD
Professor of Medicine (primary appointment)
Professor of Pathology and Immunology
BS University of Notre Dame 1977
MD Saint Louis University 1981
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Institution and Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Donald Allen Blum</td>
<td>Assistant Professor of Clinical Medicine</td>
<td>Pending Executive Faculty Approval (primary appointment)</td>
</tr>
<tr>
<td>Imre Bodo</td>
<td>Adjunct Instructor in Medicine</td>
<td>MD Saint Louis University 2009</td>
</tr>
<tr>
<td>Michael Bolger</td>
<td>Instructor in Clinical Medicine</td>
<td>Pending Executive Faculty Approval (primary appointment)</td>
</tr>
<tr>
<td>Matthew James Bonzelet, MD</td>
<td>Instructor in Clinical Medicine</td>
<td>Pending Executive Faculty Approval (primary appointment)</td>
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<tr>
<td>Adrianus C Boon, PHD, MS</td>
<td>Assistant Professor of Medicine</td>
<td>MD Temple University 2014</td>
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<tr>
<td>Michael Bolger</td>
<td>Assistant Professor of Molecular Microbiology</td>
<td>MD Temple University 1999</td>
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<tr>
<td>Matthew James Bonzelet, MD</td>
<td>Assistant Professor of Pathology and Immunology</td>
<td>MD Temple University 1999</td>
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<tr>
<td>Matthew James Bonzelet, MD</td>
<td>PHD Erasmus University Rotterdam 2003</td>
<td>PHD Erasmus University Rotterdam 2003</td>
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<tr>
<td>Matthew James Bonzelet, MD</td>
<td>MS University of Amsterdam 1997</td>
<td>MS University of Amsterdam 1997</td>
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<tr>
<td>Jamie Marie Borgmann</td>
<td>Instructor in Clinical Medicine</td>
<td>Pending Executive Faculty Approval (primary appointment)</td>
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<tr>
<td>Benjamin A Borowsky, MD</td>
<td>Professor of Clinical Medicine</td>
<td>MD Washington Univ in St. Louis 1958</td>
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<tr>
<td>Steven H. Borson, MD</td>
<td>Instructor in Medicine</td>
<td>MD Temple University 2014</td>
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<tr>
<td>Jonathan D Bortz, MD</td>
<td>Instructor in Clinical Medicine</td>
<td>MD University of the Witwatersra 1979</td>
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<tr>
<td>Ron Bose, PHD, MD, PHD1</td>
<td>Associate Professor of Medicine</td>
<td>MD University of the Witwatersra 1979</td>
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<td>Matthew S Bosner, MD</td>
<td>Associate Professor of Cell Biology and Physiology</td>
<td>MD University of the Witwatersra 1979</td>
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<td>William G Bowen, MD</td>
<td>Associate Professor of Clinical Medicine</td>
<td>MD University of North Carolina 1974</td>
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<tr>
<td>Lyndsey Jean Bowman, PHD</td>
<td>Adjunct Instructor in Medicine</td>
<td>MD University of North Carolina 1974</td>
</tr>
<tr>
<td>Sabina A Braithwaite, MPH, MD</td>
<td>Associate Professor of Emergency Medicine</td>
<td>MD University of North Carolina 1974</td>
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<td>In Medicine</td>
<td>Pending Executive Faculty Approval (primary appointment)</td>
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<td>BS Georgetown University 1986</td>
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<td></td>
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</tr>
<tr>
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<td></td>
<td>MD Medical College of Virginia 1991</td>
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<tr>
<td>Joseph Brancheck, MD</td>
<td>Instructor in Medicine</td>
<td>MD University of Illinois 2013</td>
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<tr>
<td>Richard D. Brasington Jr, MD</td>
<td>Professor of Medicine</td>
<td>MD Duke University 1980</td>
</tr>
<tr>
<td>Alan C Braverman, MD</td>
<td>Alumni Endowed Professor of Cardiovascular Disease in Medicine</td>
<td>MD University of Missouri 1985</td>
</tr>
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<td>BA University of MO Kansas City 1984</td>
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<td>Andrea Lynn Bredemeyer, PHD</td>
<td>Instructor in Medicine</td>
<td>PHD Washington Univ in St. Louis 2006</td>
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<td>BA Colby College 1999</td>
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<tr>
<td>Daniel C Brennan, MD</td>
<td>Professor of Medicine</td>
<td>MD Temple University 2014</td>
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<td>BS Cornell College 1981</td>
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<td>MD University of Iowa 1985</td>
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<tr>
<td>Audrey Brenot, BS1, PHD, MS</td>
<td>Instructor in Medicine</td>
<td>BS1 University of Paris 1995</td>
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<td>BS University of Paris 1996</td>
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<td>Thomas J. Brett, PHD</td>
<td>Assistant Professor of Medicine</td>
<td>MD Temple University 2014</td>
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<tr>
<td>Matthew Brinkmeier, BS1, MD</td>
<td>Instructor in Medicine</td>
<td>BS1 Washington Univ in St. Louis 2001</td>
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<td>MD Washington Univ in St. Louis 2001</td>
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<tr>
<td>Steven L Brody, MD</td>
<td>Dorothy R and Hubert C Moog Professor of Pulmonary Diseases in Medicine</td>
<td>MD University of Michigan 1980</td>
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<tr>
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<td></td>
<td>Professor of Radiology</td>
</tr>
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<td></td>
<td>MD University of Michigan 1980</td>
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<tr>
<td>Rita Thomas Brookheart, PHD</td>
<td>Instructor in Medicine</td>
<td>MD University of North Carolina 1974</td>
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</table>
Christopher B. Brooks, MD  
Associate Professor of Emergency Medicine in Medicine  
MD Georgetown University 1982

Angela L Brown, MD  
Associate Professor of Medicine (primary appointment)  
MD Washington Univ in St. Louis 1992  
BS Southern Methodist University 1987

David L. Brown, MD  
Professor of Medicine (primary appointment)  
MD Baylor University 1982  
BA University of Texas Austin 1977

Lawrence R Brown, MD, PHD  
Assistant Professor of Emergency Medicine in Medicine (primary appointment)  
MD Washington Univ in St. Louis 1990  
BS Univ of Wisconsin Madison 1982  
PHD Washington Univ in St. Louis 1989

George John Broze Jr, MD  
Professor of Medicine (primary appointment)  
Professor of Cell Biology and Physiology  
Professor of Pathology and Immunology  
BS University of Washington 1968  
MD University of Washington 1972

Robert M Bruce, MD  
Professor of Clinical Medicine (primary appointment)  
MD University of Minnesota 1968  
BS University of Minnesota 1968  
BA Washington Univ in St. Louis 1964

Kathleen S Brunts, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Saint Louis University 1981  
BS Western Michigan University 1977

Stanley Buck, MD  
Instructor in Clinical Medicine (primary appointment)  
BS Princeton University 1973  
MD Washington Univ in St. Louis 1977

Philip J Budge, BS1, PHD, MD  
Assistant Professor of Medicine (primary appointment)  
BS1 Brigham Young University 1998  
PHD Vanderbilt University 2003  
MD Vanderbilt University 2007  
BS Brigham Young University 1998

Scott H Burner, MD  
Associate Professor of Emergency Medicine in Medicine (primary appointment)  
MD Medical University of Sth Car 1978

Jason P Burnham, BS1, MD  
Instructor in Medicine (primary appointment)  
BS Southwestern University 2008  
BS1 Southwestern University 2008  
MD University of Texas Galveston 2012

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

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

Melvin J Butler  
Instructor in Clinical Medicine (primary appointment)

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

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)  
BA Washington Univ in St. Louis 1973  
MD Washington Univ in St. Louis 1977

Jian Li Campian, MD, PHD, MS  
Assistant Professor of Medicine (primary appointment)  
Assistant Professor of Neurological Surgery  
MD Tianjin Medical University 1997  
PHD University of Louisville 2003  
MS Peking Union Medical College 2000

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)
MD Johns Hopkins University 2010
BA Wellesley College 2005

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

**Christopher Robert Carpenter, MD**
Associate Professor of Emergency Medicine in Medicine (primary 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 Uniformed Serv U of Health Sciences 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, MD, BS1**
Associate Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 1999
BA Yale University 1995
BS1 Yale University 1995

**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 of Pediatrics
Professor of Radiology
MD University of Missouri 1988
BA University of MO Kansas City 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)
MD Vanderbilt University 1994
BS Duke University 1990

**Grant A Challen, PHD**
Assistant 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)
BA Northwestern University 2009
MD Northwestern University 2013

**Kenneth R Carson, MD**
Assistant Professor of Medicine (primary appointment)
MD University of Missouri 1995
BA Washington Univ in St. Louis 1991

**Monica Chang-Paneso, MD**
Instructor in Medicine (primary appointment)
MD Texas Tech University 2009

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

**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)
MD Harvard University 1964
BA Princeton University 1960

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

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

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

**David Yuan-Sou Chen, PHD, MD**
Instructor in Medicine (primary appointment)
Edward C. Chen, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 2005

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

Jacqueline W. Chen, AB, MD
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AB Washington Univ in St. Louis 2010
MD Washington Univ in St. Louis 2014

Phyllis Chen, MD
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MD Northwestern University Med 1992

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

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

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

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

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

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

Mathew Amprayil Cherian, MBBS
Instructor in Medicine (primary appointment)
MBBS Christian Medical College 2000

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)
BS Washington Univ in St. Louis 2007
MD University of California 2012
AA Washington Univ in St. Louis 2007

Phillip Ruben Chisholm
Instructor in Clinical Medicine (primary appointment)

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

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

Matthew Christopher, MD, PHD
Instructor in 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
Assistant Professor of Medicine (primary appointment)
MD Upstate Medical University 2011
PHD Upstate Medical University 2011

Philip Chu, MD
Instructor in Medicine (primary appointment)
MD Univ of Texas Med Sch Houston 2016
BS Rice University 2010

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

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, PHD, MS
Instructor in Medicine (primary appointment)
PHD University of Pittsburgh 2011
MS Universita de Modena e Reggio 2005

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

Geoffrey Cislo, MD
Assistant Professor of Medicine (primary appointment)
BS University of Michigan 1993
MD University of Michigan 1996

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

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

**James Close, MD**
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1984
BA Washington Univ in St. Louis 1980

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

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

**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

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

**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

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

BS Rice University 1997

**Sarah F Cole**
Instructor in Clinical Medicine (primary appointment)

**Lloyd W Coleman, PHD, MS**
Instructor in Medicine (primary appointment)
BS Northeast Missouri St Univrsity 1973
PHD Iowa State University 1984
MS Iowa State University 1976

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

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

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

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

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

**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

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

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

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

**Daniel W Coyne, MD**
Professor of Medicine (primary appointment)
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, MD, MBA  
Instructor in Clinical Medicine (primary appointment)  
MD University of Iowa 1986  
MBA University of Pennsylvania 1994  
BS University of Missouri 1980

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

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

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)  
BA Harvard University 1960  
MD Harvard University 1965

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

Paulina Cruz Bravo, MD  
Instructor in Medicine (primary appointment)  
MD Universidad Autonoma 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, PHD, MA  
Assistant Professor of Medicine (primary appointment)  
Assistant Professor of Biostatistics  
BA Vanderbilt University 1983  
PHD Washington Univ in St. Louis 1998  
MA University of CA Berkeley 1987

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

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  
MD Harvard University 1951  
BA Princeton University 1947

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

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

Peter G Danis  
Instructor in Clinical Medicine (primary appointment)  
Rand E Dankner, MD  
Associate Professor of Clinical Medicine (primary appointment)  
MD Baylor University 1978  
BA University of Pennsylvania 1974

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

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

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

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

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

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

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

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

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

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
BS University of Colorado Boulder 1990
M PH San Diego St University 2005

Thomas M De Fer, MD
Professor of Medicine (primary appointment)
BA University of Missouri 1985
MD University of Missouri 1989

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

Vincent R De Mello, MS, MD
Assistant Professor of Clinical Medicine (primary appointment)
MS University of Bombay 1965
MD University of Bombay 1969

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 Jawaharial 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)
MD Creighton University 2004
BS Creighton University 2000

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
BS Willamette University 1999
PHD Baylor University 2005

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

Sunny Desai, MS, UNKNOWN
Instructor in Clinical Medicine (primary appointment)
MS School Not Listed 1991
UNKNOWN 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)
BS Michigan State University 2000
MD Michigan State University 2004

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

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

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

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

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

James A Diestelhorst, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Missouri 1967
BS Southern Illinois University 1964

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
BA Williams College 1973
MD University of Rochester 1980
PHD University of Rochester 1980

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

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

Irl Joseph Don, MD
Associate Professor of Clinical Medicine (primary appointment)
BA Washington Univ in St. Louis 1969
MD Washington Univ in St. Louis 1972

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)
PHD University of Illinois 1999
BS Southern Illinois University 1993

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)
BA University of North Carolina 1985
MD University of North Carolina 1990

Erik R Dubberke, MD, MPH
Associate Professor of Medicine (primary appointment)
MD University of Illinois 1999
MPH Saint Louis University 2008
BA Augustana 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 Intrnl Academy of Philosophy 1992
BA Franciscan University Stubenv 1989
MA University of Rhode Island 1990
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 Office of Education
PHD Washington Univ in St. Louis 2009
BS Mount Holyoke College 1997

Maria C Dumadag-Sabio, MD
Instructor in Clinical Medicine (primary appointment)
Edward Harry DuMontier
Instructor in Clinical Medicine (primary appointment)

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

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

Kirsten F Dunn, MD
Instructor in Medicine (primary appointment)
MD Saint Louis University 2012
BS Harvard University 2007

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

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

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)
BA University of Missouri 1986
MD University of Missouri 1990

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

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

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

Stillanos Efstratiadis
Assistant Professor of Clinical Medicine (primary appointment)
Bradley A Evanoff, M PH, MD
Richard A and Elizabeth Henby 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
MD Washington Univ in St. Louis 1986
BA Cornell University 1982

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

Elisa Fabbrini, MD, PHD
Adjunct Assistant Professor of Medicine (primary appointment)
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, MD, PHD
Associate Professor of Medicine (primary appointment)
BS State Univ of NY Buffalo 1994
MD Ohio State University 2002
PHD Ohio State University 2000

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)
PHD University of Illinois 2000
MS University of Illinois 1996

BS University of Illinois 1994

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
Associate 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

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

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

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

Justin Douglas Floyd, DOST
Assistant Professor of Clinical Medicine (primary appointment)
DOST Kirksville College of Osteopat 2000
BS University of Arizona 1996

Raymond Bamvi Fohtung, MD
Instructor in Medicine (primary appointment)
MD Washington Univ in St. Louis 2014
BS Univ of Wisconsin Whitewater 2010

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

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

Randi Elizabeth Foraker, MA, PHD
Associate Professor of Medicine (primary appointment)
MA University of Iowa 1999
BA University of Iowa 1997
PHD University North Carolina 2010
Glennon Joseph Fox, MD  
Instructor in Clinical Medicine (primary appointment)  
MD University of MO Columbia 1984

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

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)  
MD University of MO Columbia 2002  
BS Truman State University 1998

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

Jeffrey Friesen, MD  
Instructor in Medicine (primary appointment)  
MD University of CA Irvine 2014

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

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

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

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

Suzanne Furesz  
Instructor in Clinical Medicine (primary appointment)

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

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

Daniel Gaitan, MD  
Associate Professor of Clinical Medicine (primary appointment)  
BS University of AL Birmingham 1980  
MD University of Mississippi 1986

Arthur H Gale, MD  
Associate Professor of Clinical Medicine (primary appointment)  
BS Washington Univ in St. Louis 1955  
MD University of Missouri 1959

Jane M. Garbutt, MBCHB, MHS  
Professor of Medicine (primary appointment)  
Professor of Pediatrics  
MBCHB Bristol University 1977  
MHS University of Toronto 1988

John A Garcia, MBA, MD  
Instructor in Clinical Medicine (primary appointment)  
BA Carleton College 1985  
MBA University of MO St Louis 1998  
MD University of Illinois 1990

Jacquelyn B Garrett, MD  
Instructor in Clinical Medicine (Dermatology) (primary appointment)  
BS Howard University 1983  
MD Howard University 1985

Francisco J Garriga, MD  
Instructor in Clinical Medicine (primary appointment)  
BS University of Puerto Rico 1966  
MD Washington Univ in St. Louis 1970

Felicitas Z Gatachalian, MD  
Instructor in Clinical Medicine (primary appointment)  
MD University of Santo Tomas 1976  
BS University of Santo Tomas 1970

Joseph H Gatewood, MD  
Instructor in Emergency Medicine in Medicine (primary appointment)  
MD University of Chicago 1970  
BA Swarthmore College 1966

William M Gee, MD  
Instructor in Clinical Medicine (primary appointment)  
BA Cornell College 1977  
MD Washington Univ in St. Louis 1981

Richard A Geisman, MD  
Instructor in Clinical Medicine (primary appointment)  
BS Saint Louis University 1979
MD Tulane University 1983

Edward M Geltman, MD
Professor of Medicine (primary appointment)
Assistant Professor of Radiology
MD New York University 1971
BS Mass Inst of Technology (MIT) 1967

Ige A George, MBBS
Assistant Professor of Medicine (primary appointment)
MBBS Christian Medical College 1998

Mate' Gergely, MD
Instructor in Medicine (primary appointment)
MD Texas A&M University 2014
BS University of Texas Austin 2010

Armin Ghobadi, MD
Assistant Professor of Medicine (primary appointment)
MD Iran Univ of Medical Sciences 2001

Matthew John Gibfried, MD
Instructor in Clinical Medicine (primary appointment)
MD University of MO Columbia 2003

Stephen James Giddings, MD, PhD
Associate Professor of Medicine (primary appointment)
BA Dartmouth College 1968
MD University of Rochester 1976
PHD Dartmouth College 1973

Thomas J Girard, PHD
Assistant Professor of Medicine (primary appointment)
BS Univ of Wisconsin Oshkosh 1979
PHD Iowa State University 1985

Margo Renee Girardi, MD
Assistant Professor of Medicine (primary appointment)
MD Saint Louis University 2005
BS University of Illinois 2001

Gardar T Gislason
Adjunct Instructor in Medicine (primary appointment)

Josephine Lee Aghobob Glaser
Instructor in Clinical Medicine (primary appointment)

Marye J Grova, MD
Professor of Medicine (primary appointment)
BA Wellesley College 1984
MD University of Washington 1988

Andrew S Gold, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Iowa 1989
BS University of Illinois 1985

Anne Carol Goldberg, MD
Professor of Medicine (primary appointment)
MD University of Maryland 1977
BA Harvard University 1973

Daniel E Goldberg, PHD, MD
David M and Paula L Kipnis Distinguished Professor (primary appointment)
Professor of Molecular Microbiology
PHD Washington Univ in St. Louis 1985
MD Washington Univ in St. Louis 1985
BA Harvard University 1978

Gregory I Goldberg, MA, PHD
Professor of Medicine (Dermatology) (primary appointment)
Professor of Biochemistry and Molecular Biophysics
MA Moscow State University 1969
PHD Weizmann Institute of Science 1977

Seth Goldberg, MD
Assistant Professor of Medicine (primary appointment)
BS University of South Florida 1999
MD University of South Florida 2003

Scott Ryan Goldsmith, MD
Instructor in Medicine (primary appointment)
MD University of Florida 2013

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

Yong-feng Gong, PHD, MS
Instructor in Medicine (primary appointment)
PHD Zhejiang Medical University 2009
MS China Medical University 2005

Maria Cristina Gonzalez-Mayda, MD
Assistant Professor of Medicine (primary appointment)
MD University of Puerto Rico 2008
BS University of Puerto Rico 2004

Daniel M Goodenberger, MD
Professor of Medicine (primary appointment)
MD Duke University 1974
BS University of Nebraska 1970

John Gorcsan III, MD
Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
MD Pennsylvania State University 1983
BA Lehigh University 1979

Mary Jo Gorman, MBA, MD
Instructor in Clinical Medicine (primary appointment)
MBA Washington Univ in St. Louis 1996
MD Southern Illinois University 1984
BA Saint Louis University 1981

Ramawamy Govindan, MD
Professor of Medicine (primary appointment)
MD University of Madras 1986

Siddhesh Gowda, MD
Associate Professor of Clinical Medicine (primary appointment)
MD School Not Listed 1970

Gregory Alan Grant, PHD
Professor of Biochemistry in Medicine (Dermatology) (primary appointment)
Professor of Developmental Biology
PHD Univ of Wisconsin Madison 1975
BS Iowa State University 1971

Jonathan M Green, MD
Professor of Medicine (primary appointment)
Associate Dean for Human Studies
Professor of Pathology and Immunology
BS University of Michigan 1982
MD Wayne State University 1986

Aaron Greenspan
Instructor in Clinical Medicine (primary appointment)

Mark H Gregory, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD University of Vermont 1986
BA University of Vermont 1982

Walter Blake Gribben, MD
Instructor in Medicine (primary appointment)
MD University of Alabama 2010

Richard T Griffey Jr, M PH, MD
Associate Professor of Emergency Medicine in Medicine
(primary appointment)
M PH Harvard University 2004
MD Norfolk General Hospital 1977

Malachi Griffith, BS1, PHD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Genetics
BS University of Winnipeg 2002
BS1 University of Winnipeg 2002
PHD University of British Columbia 2010

Obi Lee Griffith, PHD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Genetics
PHD British Columbia Open Univ 2008
BS University of Winnipeg 2002

Scott D. Groesch, MD
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1994
BS University of Illinois 1990

John R Groll, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Illinois 1988
BA Illinois Wesleyan University 1984

Richard Warren Gross, MD, AB, PHD
Professor of Medicine (primary appointment)
Professor of Chemistry
Professor of Developmental Biology
MD New York University 1976
AB Columbia University 1972
PHD Washington Univ in St. Louis 1982

Brian Anthony Grus, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Pennsylvania 1992
BS University of Pittsburgh 1988

Guner B Gulmen, PHD, MD
Assistant Professor of Clinical Medicine (primary appointment)
PHD University of Minnesota 1974
MD School Not Listed 1969

Vyjanthanath R. Gunasingham, MD
Instructor in Clinical Medicine (primary appointment)
MD School Not Listed 1982
BS School Not Listed 1975

Mark Cobb Gunby, DOST
Assistant Professor of Clinical Medicine (primary appointment)
BS University of Tulsa 1981
DOST Oklahoma St University 1988

Maria Gurrieri, DIP, MD
Instructor in Clinical Medicine (primary appointment)
DIP School Not Listed 1982
MD Catholic University 1989

Reena Gurung, MD
Instructor in Medicine (primary appointment)
MD Kathmandu University 2007

Alexandra Gutierrez, MD, M PH
Associate Professor of Medicine (primary appointment)
MD Case Western Reserve Univ 2000
M PH Harvard University 2006
BS Brown University 1996

Chandra Prakash Gyawali, MD, MBBS
Professor of Medicine (primary appointment)
MD University of Calicut 1990
MBBS University of Calicut 1985

H

Ramsey R Hachem, MD, BA1, MD1
Professor of Medicine (primary appointment)
Tracey C Marshall - Dr. Elbert P Trulock Distinguished Professor of Medicine
MD University of Texas Southwest 1997
BA1 Southern Methodist University 1992
BA Southern Methodist University 1992
MD1 University of Texas Southwest 1997

Matthew D Hageman, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 1996
Jennifer Christine Hagopian  
Adjunct Instructor in Medicine (primary appointment)

Ashfaq H Hakim, MBBS, MD  
Instructor in Clinical Medicine (primary appointment)  
MBBS RNT Medical College 1968  
MD RNT Medical College 1973

Ilia Gueorguev Halatchev, MD  
Assistant Professor of Medicine (primary appointment)  
MD Oregon Health Science Univers 2007

Sarah Eliza Halcomb, MD  
Assistant Professor of Emergency Medicine in Medicine (primary appointment)  
MD Royal College of Surgeons 2000

Angela Marie Hall, PhD  
Assistant Professor of Medicine (primary appointment)  
BS University of MO Columbia 1999  
PHD Univ of Minnesota Twin Cities 2005

Ira McCarthy Hall, PhD  
Associate Professor of Medicine (primary appointment)  
Associate Director of the Genome Center  
Associate Professor of Genetics  
PHD Cold Spring Harbor Laboratory 2003  
BS University of CA Berkeley 1998

Yasir A Hamad, MD  
Instructor in Medicine (primary appointment)  
MD University of Juba 2004

Stephanie M Hammer, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Chicago St University 1995

Zahirul Haque  
Instructor in Clinical Medicine (primary appointment)

Annie Chamren Harmon, PhD, MS  
Instructor in Medicine (primary appointment)  
BA University of Evansville 2004  
PHD University of Michigan 2016  
MS Missouri College 2010

Charles A. Harris, PhD, MD  
Assistant Professor of Medicine (primary appointment)  
Assistant Professor of Developmental Biology  
BS Brown University 1994  
PHD Washington Univ in St. Louis 2002  
MD Washington Univ in St. Louis 2002

Lydia-Ann Lynell Harris, PhD  
Instructor in Medicine (primary appointment)  
PHD State University of New York 2011

Jeffrey A Haspel, PhD, MD  
Assistant Professor of Medicine (primary appointment)  
PHD New York U. School of Medicine 2001  
MD New York U. School of Medicine 2003  
BS Binghamton University 1994

Anisa Hassan, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Dow Medical College Karachi 1976

Thomas F Hastings, MD  
Instructor in Clinical Medicine (primary appointment)  
MD University of Missouri 1986  
BA Rockhurst College 1981

Krysta Lynn Heath, MD  
Instructor in Medicine (primary appointment)  
MD University of AR Med Sciences 2011

James N Heins, MD  
Professor of Clinical Medicine (primary appointment)  
Adjunct Professor of Medicine  
MD University of Louisville 1961  
BA University of Louisville 1957

Laura Elaina Heitsch, MD  
Assistant Professor of Emergency Medicine in Medicine (primary appointment)  
Assistant Professor of Neurology  
MD University of Illinois 2005  
BS University of Illinois 1999

Jason M Held, PhD  
Assistant Professor of Medicine (primary appointment)  
Assistant Professor of Anesthesiology  
PHD University of San Francisco 2006  
BS Duke University 2001

Jeffrey P. Henderson, PhD, MD  
Associate Professor of Medicine (primary appointment)  
Associate Professor of Molecular Microbiology  
PHD Washington Univ in St. Louis 2002  
BS Univ of Wisconsin Madison 1994  
MD Washington Univ in St. Louis 2002

Katherine Eileen Henderson, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
MD University of Minnesota 1998  
BS Univ of Wisconsin Madison 1993

Kristina Louise Henderson, MD  
Instructor in Clinical Medicine (primary appointment)  
BA Saint Louis University 1982  
MD Saint Louis University 1991

Daniel Robert Herleth  
Instructor in Clinical Medicine (primary appointment)

Catherine Hermann, MD, M ENG  
Instructor in Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 2000  
M ENG Univ of Southern Mississippi 1993  
BA Truman State University 1992

Leonel F. Hernandez Aya, MD
Assistant Professor of Medicine (primary appointment)  
MD Universidad Nacional de Columb 2007

Cynthia Joan Herrick, MD  
Assistant Professor of Medicine (primary appointment)  
MD Washington Univ in St. Louis 2006  
BS Princeton University 2002

Andreas Herrlich, MD, PHD  
Associate Professor of Medicine (primary appointment)  
MD Freie University 1994  
PHD Freie University 1998

Jennifer Kristen Hester, MD  
Instructor in Clinical Medicine (primary appointment)  
MD University of MO Kansas City 1997

Scot G Hickman, MD  
Professor of Medicine (primary appointment)  
MD Washington Univ in St. Louis 1970  
BA Duke University 1966

Stuart T. Higano, MD  
Instructor in Clinical Medicine (primary appointment)  
MD University of Massachusetts 1984

SueLing Ming Hilbert, MD  
Assistant Professor of Emergency Medicine in Medicine (primary appointment)  
MD University of Utah 2006

Elizabeth Hilliker, MD, MA  
Assistant Professor of Emergency Medicine in Medicine (primary appointment)  
MD Washington Univ in St. Louis 1970  
BA Washington Univ in St. Louis 1965  
MA Washington Univ in St. Louis 1970

Paul Flack Hintze, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
BS Brigham Young University 1974  
MD University of Utah 1978

Angela Christine Hirbe, PHD, MD  
Assistant Professor of Medicine (primary appointment)  
BS Washington Univ in St. Louis 2001  
PHD Washington Univ in St. Louis 2009  
MD Washington Univ in St. Louis 2009

Grant S. Hoekzema, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 1992

J. Langston Hoffman, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 1999  
BS Univ of Wisconsin Madison 1994

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

Melissa Louise Hollie  
Instructor in Clinical Medicine (primary appointment)

Christopher Vincent Holthaus, MD  
Assistant Professor of Emergency Medicine in Medicine (primary appointment)  
MD Saint Louis University 2000

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

Neal Holzum  
Instructor in Clinical Medicine (primary appointment)

Hitoshi Honda  
Adjunct Assistant Professor of Medicine (primary appointment)

Bruce Jay Hookerman, MD  
Assistant Professor Emeritus of Clinical Medicine (Dermatology) (primary appointment)  
MD Saint Louis University 1968  
BA Dartmouth College 1964

Barbra A Horn, MD  
Instructor in Clinical Medicine (primary appointment)  
BA Clark University 1975  
MD Washington Univ in St. Louis 1982

Ian Kerst Hornstra, PHD, MD  
Associate Professor of Medicine (Dermatology) (primary appointment)  
PHD University of Florida 1993  
MD University of MO Kansas City 1986  
BA University of MO Kansas City 1985

Timothy Adam Horwedel, PHD  
Adjunct Instructor in Medicine (primary appointment)  
PHD Northeastern University 2008

Jianghui Hou, PHD, MS  
Associate Professor of Medicine (primary appointment)  
PHD Edinburgh University 2003  
MS Edinburgh University 2000  
BS Nanjing University 1999

Dennis Emil Hourcade, MA, PHD  
Professor of Medicine (primary appointment)  
MA Harvard University 1974  
PHD Harvard University 1978  
BS Mass Inst of Technology (MIT) 1971

Stacey L House, MD, PHD  
Assistant Professor of Emergency Medicine in Medicine (primary appointment)  
BS Yale University 1999
Jacqueline Howard, UNKNOWN  
Instructor in Clinical Medicine (primary appointment)  
UNKNOWN School Not Listed 1995

David Thomas Howell  
Instructor in Clinical Medicine (primary appointment)

Randall A Howell, MD  
Assistant Professor of Emergency Medicine in Medicine (primary appointment)  
BS Kansas State University 1974  
MD Kansas State University 1978

Chyi-Song Hsieh, MD, PHD  
Associate Professor of Medicine (primary appointment)  
Alan A and Edith L Wolff Distinguished Professor  
Associate Professor of Pathology and Immunology  
MD Washington Univ in St. Louis 1996  
PHD Washington Univ in St. Louis 1996

James J Hsieh, MD, PHD  
Professor of Medicine (primary appointment)  
MD Taipei Medical University 1990  
PHD John Hopkins University 1995

Fong Fu Hsu, PHD, MS  
Professor of Medicine (primary appointment)  
PHD University of Utah 1986  
MS Tsinghua University, China 1975  
BS School Not Listed 1970

Kevin Hsueh, BS1, MD  
Assistant Professor of Medicine (primary appointment)  
BS1 Williams College 2003  
MD New York University 2008  
BS Williams College 2003

Raymond J Hu, MD  
Instructor in Clinical Medicine (primary appointment)  
MD University of Missouri 1982  
BA Saint Louis University 1977

Wei-Wei Huang  
Instructor in Clinical Medicine (Dermatology) (primary appointment)

Yafei Huang, PHD, MS  
Instructor in Medicine (primary appointment)  
PHD Univ of Texas Med Sch Houston 2007  
MS Beijing Medical University 2000

John W Hubert, MD  
Associate Professor of Clinical Medicine (primary appointment)  
BA Wabash College 1971  
MD Washington Univ in St. Louis 1975

Elizabeth Stack Huebner, MD  
Assistant Professor of Medicine (primary appointment)  
BA Washington Univ in St. Louis 1995  
MD Loyola University Chicago 2000

Laura Huff, MD  
Assistant Professor of Medicine (Dermatology) (primary appointment)  
BS Colorado St University 2006  
MD U of Colorado Health Sci Ctr 2011

Jing Hughes, MD  
Instructor in Medicine (primary appointment)  
MD University of Pennsylvania 2009  
BS Stanford University 2002

Michael Evan Hughes, PHD, MS  
Assistant Professor of Medicine (primary appointment)  
PHD Harvard University 2007  
MS Stanford University 2002  
BS Stanford University 2002

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Associate Professor of Medicine (primary appointment)  
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MD Case Western Reserve Univ 1998  
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Associate Professor of Medicine (Dermatology) (primary appointment)  
MD Washington Univ in St. Louis 2002

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MD University of Missouri 1982  
BS Southeast Missouri St Univers 1978

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BS Rutgers University 1987  
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MD University of MO Columbia 1976

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MD University of the Witwatersra 1998

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HHMI Specialist II  
BS University of Houston 1993  
PHD University of Texas Southwest 2000
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BS Washington Univ in St. Louis 1993
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BS Rhodes College 1981
MD Saint Louis University 1985

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PHD Washington Univ in St. Louis 2005
BS Johns Hopkins University 1996

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BS University of Iowa 1984
JD Saint Louis University 2004
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Associate Professor of Pathology and Immunology
MD Northwestern University 1999
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MBBS Maulana Azad Medical College 1986

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M PH Saint Louis University 2008
MBCHB University of Baghdad 2001

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BA University of Texas Austin 1990
MD Saint Louis University 1994

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MD Government Medical College 2002

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MD University of Chicago 2008
PHD University of Chicago 2006
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BS University of Chicago 2000

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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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PHD Vanderbilt University 1997
BS Michigan State University 1991

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PHD China Pharmaceutical Univ 1992

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MD University of Illinois 1967

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MD Univ of Wisconsin Madison 1999

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BS1 Morehouse College 1996
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MD University of Kansas Medical 2014

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BS Drake University 2006  
PHD Emory University 2011  

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BS US Military Academy 1979  

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MBBS Guntur Medical College 1989  

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BA University of Notre Dame 1980  
MD University of Illinois 1984  

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BS Emory University 1978  
MD Duke University 1982  

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Professor of Medicine (primary appointment)  
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MD University of Arkansas 1960  
BA University of Arkansas 1957  

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MD Washington Univ in St. Louis 1962  
BA Dartmouth College 1958  

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BS Washington Univ in St. Louis 1975  
MD Saint Louis University 1980  

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MD Semmelweis University of Med 1985  
BS School Not Listed 1981  

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Adjunct Professor of Physics  
Professor of Biomedical Engineering  
Professor of Cell Biology and Physiology  
PHD California Institute Technolo 1977  
MS California Institute Technolo 1972  
BS Cornell University 1969  
MD University of Miami 1979  

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Instructor in Clinical Medicine (primary appointment)  
BA Amherst College 1987  
MD Johns Hopkins University Medic 1991  

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John E Simon Scholar in Medicine
BS University of Michigan 1962
MD University of Chicago 1966

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BS McGill University 1977
PHD McGill University 1982

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PHD Washington Univ in St. Louis 2014
BS University of Illinois 2006

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BS University of Illinois 1982
MD Saint Louis University 1986

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MD University of Illinois 1964

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BS Emory University 1998
MD Emory University 2002

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Associate Professor of Molecular Microbiology
MD Harvard University 1970
BA Princeton University 1966

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BS University of Georgia 1992
BS1 University of Georgia 1992
PHD Washington Univ in St. Louis 2000

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MD University of Arkansas 2001
BA Hendrix College 1997

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

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Assistant 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
BA Univ of IL-Urbana-Champaign 2005
BS Univ of IL-Urbana-Champaign 2005

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

L

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Associate Professor of Medicine (primary appointment)
MA Columbia University 2004
BS Columbia University 2000
MS Columbia University 2001
PHD Columbia University 2007
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Instructor in Clinical Medicine (primary appointment)
MS Osmania Medical College 1971

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Instructor in Medicine (primary appointment)
MS1 University of Notre Dame 2012
PHD University of Notre Dame 2014

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Assistant Professor of Medicine (primary appointment)
MS John Hopkins University 2000
BA Colgate University 1995
MD Drexel University 2004

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

Gregory Mark Lanza, PHD, MS, MD
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
PHD University of Georgia 1981
MS University of Georgia 1978
MD Northwestern University 1992

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Assistant Professor of Medicine (primary appointment)
MD Yale University 2007
BS Yale University 2001

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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

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Associate Professor of Medicine (primary appointment)
BS Wayne State University 1967
MD Wayne State University 1971

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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)
MD Temple University 1976
BA Temple University 1972

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

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

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Assistant Professor of Medicine (primary appointment)
BA University of Iowa 2002
MD University of Iowa 2006

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

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BA Texas Tech University 1977
MD Texas Tech University 1982

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Professor of Medicine (Pending Executive Faculty Approval)
(primary appointment)
BA1 University of Tennessee 1984
BA University of Tennessee 1984
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Associate Professor of Pathology and Immunology
MD University of Chicago 1998
BA Wittenberg University 1990
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PHD1 University of Chicago 1995
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PHD Chinese Academy of Med Science 1999

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MD State Univ of NY Buffalo 1999

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M PH Fudan University 1999
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PHD Texas Tech University 2006

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BA Cornell University 1998
BA1 Cornell University 1998
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MD State Univ of NY Buffalo 1993
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MD Univ of Health Sciences KC 1970

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PHD Duke University 2006
MD National Taiwan University 1999

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BA Harvard University 1990
MD University of Iowa 1994

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BS University of Illinois 2003
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Instructor in Medicine (primary appointment)
MD Saint Louis University 2009

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MBBS Medical College of India 2004  
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MD Emory University 1975

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

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

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Assistant Professor of Medicine (primary appointment)  
BS University of Melbourne 1996  
PHD University of Melbourne 2000  
BA University of Melbourne 1995

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Assistant Professor of Clinical Medicine (primary appointment)
BS Northeast Missouri St Univrsty 1981
BA St Edwards University 1979
DOST School Not Listed 1985

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Instructor in Medicine (primary appointment)
BS American University of Beirut 2006
MD American University of Beirut 2010

Henry E Mattis, MD
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MD Washington Univ in St. Louis 1975
BS University of Illinois 1971

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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

Catherine Jordan McCarthy, PHD, MD
Instructor in Medicine (primary appointment)
BA Agnes Scott College 2005
PHD Washington Univ in St. Louis 2014
MD Washington Univ in St. Louis 2014

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

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Instructor in Medicine (primary appointment)
PHD University of MO Columbia 2013
BS University of Kansas 2006

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

Leslie Rose McCrary-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

Debra Ann McDonnell, MS, AS, DPT
Associate Professor of Emergency Medicine in Medicine (primary appointment)
Associate Professor of Orthopaedic Surgery
Associate Professor of Physical Therapy
MS Washington Univ in St. Louis 1990
AS Oakton Community College 2000
DPT Washington Univ in St. Louis 2005
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, MA, MD
Professor of Medicine (primary appointment)
MA Northern Michigan University 1980
BS University of Michigan 1972
MD Michigan State University 1979

Oliver McKe, 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, MD, JD
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1989
JD University of California 1974
BA University of California 1971

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

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

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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

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

Paul A Mennes, MD  
Professor of Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 1970  
BS Univ of Wisconsin Madison 1966

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Instructor in Clinical Medicine (primary appointment)  
MD School Not Listed 1976  
BS School Not Listed 1970

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

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)  
BS University of Missouri 1978  
MD Duke University 1982

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

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

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

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

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

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, MD1, MD, PHD, AB  
Professor of Medicine (primary appointment)  
Professor of Developmental Biology  
Professor of Pathology and Immunology  
MD1 University of Pennsylvania 1997  
MD University of Pennsylvania 1997  
PHD University of Pennsylvania 1997  
AB Washington Univ in St. Louis 1989  
BA Washington Univ in St. Louis 1989

Graeme Mindel, MBBCH, MS  
Instructor in Clinical Medicine (primary appointment)  
MBBCH University of the Witwatersra 1992  
MS University of the Witwatersra 1992

Jeffrey H Miner, PHD  
Professor of Medicine (primary appointment)  
Professor of Cell Biology and Physiology  
BA Northwestern University 1985  
PHD California Institute Technolo 1991

Jonathan J Miner, PHD, MD  
Assistant Professor of Medicine (primary appointment)  
Assistant Professor of Developmental Biology  
Assistant Professor of Pathology and Immunology  
BS Brigham Young University 2002  
PHD University of Oklahoma 2008  
MD University of Oklahoma 2010

Makedonka Mitreva, PHD, MS  
Associate Professor of Medicine (primary appointment)  
Associate Professor of Genetics  
PHD Wageningen University 2001  
BS University of Skopje - Macedon 1990  
MS University of Skopje - Macedon 1994

Bettina Mittendorfer, MS, PHD
Professor of Medicine (primary appointment)
MS University of Vienna 1999
PHD University of Texas Austin 1999

Mahshid Mohseni, MD
Instructor in Medicine (primary appointment)
Instructor in Orthopaedic Surgery
MD Isfahan U of Medical Sciences 2004

C. Scott Molden, MD
Instructor in Clinical Medicine (primary appointment)
BA De Paul University 1968
MD Case Western Reserve Univ 1972

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Associate Professor of Medicine (primary appointment)
Associate Professor of Pathology and Immunology
BS University of Puerto Rico 1982
MD University of Puerto Rico 1985

Jennifer Marie Monroy, MD
Assistant Professor of Medicine (primary appointment)
BS Incarnate Word College 2003
MD Univ Texas Health Science Ctr 2008

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Instructor in Clinical Medicine (primary appointment)
BS University of Missouri 1952
BA Washington Univ in St. Louis 1950
MD University of Pittsburgh 1954

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Instructor in Medicine (primary appointment)
BS Yonsei University 1997
PHD Washington Univ in St. Louis 2006
MS Yonsei University 1999

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Instructor in Clinical Medicine (primary appointment)
BS Texas College 2007
MD Washington Univ in St. Louis 2013

Timothy D Moore
Instructor in Clinical Medicine (primary appointment)

Daniel Morgensztern, MD
Associate Professor of Medicine (primary appointment)
MD FTE Souza Marques 1995

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MD University of Missouri 1993
MS Saint Louis University 1989
BA Benedictine College 1987

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Professor of Developmental Biology
MBBS University of London 1970

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BS Benedictine University 2004
MD Loyola University Chicago 2008

Jessica Mozesky, PHD, MS
Assistant Professor of Medicine (primary appointment)
BS University of Toronto 1998
PHD University College London 2010
MS University of Pennsylvania 2017

Richard Gerard Mrad
Instructor in Clinical Medicine (primary appointment)
BA University of Missouri 1981

Philip Mudd, MD
Instructor in Emergency Medicine in Medicine (Pending Dean's Approval)
MD University of Wisconsin-Madiso 2013

Kristen L Mueller, MD
Instructor in Emergency Medicine in Medicine (primary appointment)
MD Medical College of Wisconsin 2010

Faquir Muhammad
Instructor in Clinical Medicine (primary appointment)

Joshua Mutambuki Muia, PHD
Instructor in Medicine (primary appointment)
BA University of Nairobi 2003
PHD Western Michigan University 2010

Daniel Kast Mullady, MD
Associate Professor of Medicine (primary appointment)
MD University of Connecticut 2001

Monalisa Mullick, MD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Pediatrics
MD University of MO Kansas City 1997

Michael E Mullins, MD
Associate Professor of Emergency Medicine in Medicine (primary appointment)
MD Hahnemann University 1987

Steven Robert Mumm, PHD, MS
Associate Professor of Medicine (primary appointment)
PHD Saint Louis University 1992
MS University of Missouri 1984
BS University of Missouri 1978

Amy Musiek, MD
Associate Professor of Medicine (Dermatology) (primary appointment)
MD Vanderbilt University 2004
BS College of William and Mary 1999

Umadevi Muthyala
Instructor in Clinical Medicine (primary appointment)
N

Elna M Nagasako, PHD, MD
Assistant Professor of Medicine (primary appointment)
PHD University of Rochester 2001
MD Washington Univ in St. Louis 2007
BS Pomona College 1991

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Instructor in Clinical Medicine (primary appointment)

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Associate Professor of Medicine (primary appointment)
BA Williams College 1989
MD State Univ of NY Buffalo 1993

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

Robert F Nease Jr, MA, PHD
Adjunct Associate Professor of Medicine (primary appointment)
MA Stanford University 1981
BS University of California 1980
PHD Stanford University 1989

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BS City College 1970
MD Loyola University Chicago 1974

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Instructor in Medicine (Dermatology) (primary appointment)
MD Vanderbilt University 2013

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Pharmacology in Developmental Biology
BS Framingham State College 1974
PHD Georgetown University 1978

Elizabeth P. Newberry, PHD
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PHD Washington Univ in St. Louis 1995
BA Knox College 1988

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BA Washington Univ in St. Louis 1987
MD Washington Univ in St. Louis 1991

Amy C Ney, MD
Instructor in Clinical Medicine (Dermatology) (primary appointment)

BS Mary Washington College 1997
MD University of Virginia 2001

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Assistant Professor of Medicine (primary appointment)
MD1 Wayne State University 1993
BS1 University of Michigan 1989
MD Wayne State University 1993

Elizabeth Neman, MD
Assistant Professor of Medicine (Dermatology) (Pending
Executive Faculty Approval) (primary appointment)
MD University of MO Columbia 2012

Joan P Noelker, MD
Instructor in Emergency Medicine in Medicine (primary
appointment)
MD Royal College of Surgeons 2010
BA University of Virginia 2004

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

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

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

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

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PHD Stony Brook School of Medicine 2007
BS University of CA Berkeley 1999

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

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UNKNOWN Govt College Sarhadha 1968
UNKNOWN Nishtar Medical College Multa 1974

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MBBCH University College Cork 2006

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

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Instructor in Medicine (primary appointment)
PHD Washington Univ in St. Louis 2009
BA University of MO Columbia 1999

Andrew John Odden, MD
Assistant Professor of Medicine (primary appointment)
BS Gustavus Adolphus College 2003
MD University of Minnesota 2007

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Instructor in Medicine (primary appointment)
MD Wake Forest University 2010

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

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Associate Professor of Medicine (primary appointment)
BS University of Ibadan 1975
PHD University of Ibadan 1981

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Professor Emeritus of Clinical Medicine (primary appointment)
MD Harvard University 1957
BA Harvard University 1953

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

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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)
BS Saint Louis University 2004
MD University of MO Columbia 2008

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

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

David William Ortblas, 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
BA Harvard University 1982
MD Harvard University 1986

Richard E Ostlund Jr, MD
Professor of Medicine (primary appointment)
BS University of Utah 1966
MD University of Utah 1970

Theodore Otti, UNKNOWN
Instructor in Clinical Medicine (primary appointment)
UNKNOWN School Not Listed 1983

Jiafu Ou, MD
Assistant Professor of Medicine (primary appointment)
MD Sun Yat-Sen University 1995

Edgar Turner Overton, MD
Adjunct Assistant Professor of Medicine (primary appointment)
MD University of Tennessee 1999
BA University of Tennessee 1992

Toshinao Oyama, MS, PHD
Instructor in Medicine (primary appointment)
MS Chiba University 2002
PHD Chiba University 2017
BS Kitasato University 2000

Vani Pachalla, MD
Instructor in Clinical Medicine (primary appointment)
MD School Not Listed 1990

Russell Kent Pachynski, MD
Assistant Professor of Medicine (primary appointment)
BS Stanford University 1994
MD Univ of Wisconsin Madison 2003

Robert C Packman, MD
Professor of Clinical Medicine (primary appointment)
BA Washington Univ in St. Louis 1953
MD Washington Univ in St. Louis 1956
BS University of Missouri 1954

Ross Ian Palis, MD
Instructor in Clinical Medicine (primary appointment)
MD Vanderbilt University 2002
BS Duke University 1998

Peter D Panagos, MD, MA
Professor of Emergency Medicine in Medicine (primary appointment)
Professor of Neurology
MD Emory University 1994
MA Boston University 1994
BA Dartmouth College 1987

Anupam S Pande, MBBS, MS
Instructor in Medicine (primary appointment)
MBBS Byramjee Jeejeebhoy Medical Co 2009
MS University of Texas Houston 2011

Joseph Pangelinan, PHD, MA
Assistant Professor in Medicine (primary appointment)
PHD University of MO St Louis 2015
MA Southeast Missouri St Univers 1995

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

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

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

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

Deborah L Parks, MD
Professor of Medicine (primary appointment)
BA Washington Univ in St. Louis 1978
MD University of Louisville 1982

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

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

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

Amanullah Pathan, UNKNOWN1, MS, UNKNOWN
Instructor in Clinical Medicine (primary appointment)
UNKNOWN1 School Not Listed 1969
MS School Not Listed 1969

Bruce Patterson, PHD
Professor of Medicine (primary appointment)
PHD University of Illinois 1980
BS Southern Illinois University 1974

Philip Richard Orrin Payne, PHD, MA
Professor of Medicine (primary appointment)
Professor of Computer Science and Engineering
Robert J Terry Professor
PHD Columbia University 2006
BA University of CA San Diego 1999
MA Columbia University 2000

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

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Instructor in Clinical Medicine (primary appointment)
DOST School Not Listed 1992
MS Central Michigan University 1984
BFA Southern Methodist University 1977
PHD University of Southwestern Lo 1986

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Professor of Medicine (primary appointment)
Affiliated Professor of Engineering
Alan A and Edith L Wolff Distinguished Professor
Director, Center for Health Policy
BA Harvard University 1955
MD University of Rochester 1960

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

Marybeth Pereira, MD
Associate Professor of Clinical Medicine (primary appointment)
BA Swarthmore College 1973
MD University of California 1978

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

Laurence F Perlestein, MD
Bryan Douglas Piotrowski, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Saint Louis University 2004

Beatrice Plougastel Douglas, PHD  
Instructor in Medicine (primary appointment)  
PHD University of Pierre et Marie 1994

Doug Pogue, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 1996

Robert Francis Poirier Jr, MD  
Assistant Professor of Emergency Medicine in Medicine (primary appointment)  
MD American U of Carribean SchMed 1999

Donovan Polack, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
MD Cornell University 1979

Gregory Polites, MD  
Associate Professor of Emergency Medicine in Medicine (primary appointment)  
MD University of Illinois Chicago 1996

Kenneth S Polonsky, MBBCH  
Adjunct Professor of Medicine (primary appointment)  
MBBCH University of the Witwatersra 1973

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Professor of Medicine (primary appointment)  
Professor of Biochemistry and Molecular Biophysics  
MD Washington Univ in St. Louis 1983  
BS Stanford University 1979

Makhaawadee Pongruangporn, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Chiang Mai University 2001

Harish Ponnuru, MD  
Instructor in Clinical Medicine (primary appointment)  
BA University of MO Kansas City 1995  
MD University of Missouri 1995

Lee S Portnoff, MA, MD  
Assistant Professor of Clinical Medicine (Dermatology) (primary appointment)  
MA University of California 1974  
BS Purdue University 1972  
MD Washington Univ in St. Louis 1978

Daniel E Potts, MD  
Associate Professor of Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 1972  
BS Beaufort Technical College 1968

William G Powderly, MD  
J. William Campbell Professor of Medicine (primary appointment)  
Larry J. Shapiro Director of the Institute of Public Health  
MD National University of Irelan 1979
John A Powell, MD  
Assistant Professor of Clinical Medicine (Dermatology) (primary appointment)  
BS University of Notre Dame 1967  
MD University of Michigan 1971

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Assistant Professor of Medicine (primary appointment)  
PHD Georgia Tech 1993  
BS Union University 1988

Diana A Prablek, MD  
Instructor in Clinical Medicine (primary appointment)  
BA Texas Christian University 1984  
MD Southwestern University 1988

Lawrence Prablek, MD  
Instructor in Clinical Medicine (primary appointment)  
MD University of Texas Southwest 1988  
BS Southern Methodist University 1984

Simeon Prager, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
MD University of California 1991  
BA Yale University 1981

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Adjunct Instructor in Medicine (primary appointment)

Christopher William Prater, MD  
Instructor in Medicine (primary appointment)  
MD Michigan State University 2017

David J Prelutsky, MD  
Associate Professor of Clinical Medicine (primary appointment)  
BA Northwestern University 1975  
MD Saint Louis University 1979

Niall Thomas Prendergast, MD  
Instructor in Medicine (primary appointment)  
MD Washington Univ in St. Louis 2014  
BS Harvard University 2007

Rachel M. Presti, PhD, MD  
Assistant Professor of Medicine (primary appointment)  
BA Scripps College 1990  
PHD Washington Univ in St. Louis 2001  
MD Washington Univ in St. Louis 2001

Aaron J Pugh  
Adjunct Instructor in Medicine (primary appointment)

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

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

Usman Qayyum  
Instructor in Clinical Medicine (primary appointment)

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

Patricia M Quinley, MD  
Instructor in Clinical Medicine (primary appointment)  
MD University of Illinois 1989  
BS University of Illinois 1985

Abdul H Qureshi, MS  
Instructor in Clinical Medicine (primary appointment)  
MS School Not Listed 1992

Radha Devi Radhakrishna Pillai, MBBS  
Assistant Professor of Medicine (primary appointment)  
MBBS Jawaharial Inst of Med Educ 2006

Srinivasan Raghavan  
Instructor in Clinical Medicine (primary appointment)

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

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

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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  
MD Washington Univ in St. Louis 1967  
BA Rice University 1963

Felicia Ratnaraj, MD  
Instructor in Medicine (primary appointment)  
MD University of MO Kansas City 2014  
BA University of MO Kansas City 2012
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  
PHD Yale University 1979  
BA Harvard University 1973  
MA Harvard University 1973  
Daniel Rauch, PHD, BS1  
Assistant Professor of Medicine (primary appointment)  
PHD University of Iowa 2001  
BS Augustana College 1996  
BS1 Augustana College 1996  
Saadia Taufiq Raza, MD  
Assistant Professor of Clinical Medicine (Dermatology) (primary appointment)  
MD Emory University 1997  
BA Emory University 1993  
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, MS, MD  
Associate Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)  
MS University of MO Columbia 1981  
BS Southeast Missouri St Univers 1979  
MD University of MO Columbia 1985  
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)  
BA University of Texas Austin 1992  
MD Texas Tech University 1996  
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)  
MD Tulane University 1966  
BS Tulane University 1962  
Margaret Reiker, UNKNOWN, PHD, MD  
Instructor in Clinical Medicine (primary appointment)  
UNKNOWN Saint Louis University 1986  
PHD Saint Louis University 1991  
MD Saint Louis University 1993  
Samuel W Reinhardt, MD  
Instructor in Medicine (primary appointment)  
BS Yale University 2010  
MD Washington Univ in St. Louis 2014  
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)  
MD University of Missouri 1990  
BA University of MO Kansas City 1989  
Maria Sara Remedi, PHD, MS  
Assistant Professor of Medicine (primary appointment)  
Assistant Professor of Cell Biology and Physiology  
BS University of Cordoba 1987  
PHD University of Cordoba 1999  
MS University of Cordoba 1989  
Hilary Elizabeth Lee Reno, PHD, MS, MD  
Assistant Professor of Medicine (primary appointment)  
PHD University of Illinois 2000  
MS University of Illinois 1997  
MD University of Illinois 2002  
Stacey L. Rentschler, MD, PHD, MS  
Assistant Professor of Medicine (primary appointment)  
Assistant Professor of Developmental Biology  
BS Lehigh University 1995  
MD Mount Sinai School of Medicine 2004  
PHD Mount Sinai School of Medicine 2002  
MS Mount Sinai School of Medicine 2000  
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MD University of MO Columbia 2008  
BA University of MO Columbia 2004  
Michael P Rettlig, PHD  
Associate Professor of Medicine (primary appointment)  
BS Illinois State University 1993  
PHD Purdue University 2000  
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BA University of Illinois 1974  
MD University of Illinois 1979
Lois F. Richard, PHD, MD  
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PHD Saint Louis University 1998  
BS Murray St University 1982  
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MS Rutgers University 1976  
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BS Rutgers University 1974

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

Robert D Rifkin, MD  
Professor of Medicine (primary appointment)  
MD New York University 1972  
BS Mass Inst of Technology (MIT) 1968

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

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

Elisha D.O. Roberson, PHD  
Assistant Professor of Medicine (primary appointment)  
Assistant Professor of Genetics  
BS Western Kentucky University 2004  
PHD Johns Hopkins University 2009

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

M. Reza Rofougaran, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Tehran University 1988

H. Bryan Rogers, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 1965

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

Rizwan Romee, MD  
Assistant Professor of Medicine (primary appointment)  
MD Gov’t Gandhi Memorial Sci Coll 2004

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

Ernesto J Romo, MD  
Instructor in Emergency Medicine in Medicine (Pending Dean’s Approval) (primary appointment)  
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  
BS Columbia University 1985  
MD Mount Sinai School of Medicine 1989

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  
BA Brown University 2000  
MD Washington Univ in St. Louis 2008

Ian Ross, MD  
Instructor in Medicine (primary appointment)  
MD East Tennessee State Universi 2013

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)  
MD University of Cincinnati 1997  
BS University of Cincinnati 1993

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

Myra L. Rubio, MD
<table>
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<tr>
<th>Name</th>
<th>Appointment</th>
<th>Primary Institution</th>
<th>Other Institutions and Years</th>
</tr>
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<tbody>
<tr>
<td>Associate Professor of Medicine</td>
<td>(primary appointment)</td>
<td>MD Indiana University Bloomington 1998</td>
<td>BA Washington Univ in St. Louis 1994</td>
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<tr>
<td>Lela Ruck, MD</td>
<td>Instructor in Medicine (primary appointment)</td>
<td>MD Texas Tech University 2014</td>
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<tr>
<td>Paetra Ruddy, MD</td>
<td>Assistant Professor of Medicine (Dermatology) (primary appointment)</td>
<td>MD University of Iowa 2011</td>
<td>BA Bard College 1997</td>
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<tr>
<td>Peter G Ruminski, MS</td>
<td>Instructor in Medicine (Pending Dean’s Approval) (primary appointment)</td>
<td>MS Washington Univ in St. Louis 1992</td>
<td>BS Saint Louis University 1975 BS Saint Louis University 1977</td>
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<tr>
<td>Emily Lindholm Rumora, MD</td>
<td>Instructor in Medicine (primary appointment)</td>
<td>MD Dartmouth College 2013</td>
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<tr>
<td>Brent E Ruoff, MD</td>
<td>Associate Professor of Emergency Medicine in Medicine (primary appointment)</td>
<td>BS Graceland College 1977</td>
<td>MD Saint Louis University 1981</td>
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<tr>
<td>Michael B Rusche</td>
<td>Adjunct Instructor in Medicine (primary appointment)</td>
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<tr>
<td>Tonya D Russell, BS1, MD, MD1</td>
<td>Associate Professor of Medicine (primary appointment)</td>
<td>BS1 University of Florida 1993</td>
<td>MD University of Florida 1997 BS University of Florida 1993 MD1 University of Florida 1997</td>
</tr>
<tr>
<td>Ilaria Russo, PhD, MS, MS</td>
<td>Visiting Assistant Professor of Medicine (primary appointment)</td>
<td>PHD University of Padua 2005</td>
<td>MS University of Padua 1998 BS University of Palermo 1998 BS University of Palermo 1998 MS University of Padua 1998</td>
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<tr>
<td>Joseph F Ruwilitch Jr, MD</td>
<td>Professor of Clinical Medicine (primary appointment)</td>
<td>MD Washington Univ in St. Louis 1966</td>
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<tr>
<td>Kenneth J Rybicki, PhD, MS, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>BA Southern Illinois University 1978</td>
<td>PHD University of Texas Austin 1984 MS Southern Illinois University 1980 MD University of Texas Austin 1987</td>
</tr>
<tr>
<td>Raya Saba, MD</td>
<td>Instructor in Medicine (primary appointment)</td>
<td>MD Damascus University 2011</td>
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<tr>
<td>Molly Sachdev, M PH, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>M PH University North Carolina 2000</td>
<td>MD Duke University 2001</td>
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<tr>
<td>Justin Sadhu, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>MD Washington Univ in St. Louis 2007</td>
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<tr>
<td>J. Evan Sadler, MD, PHD</td>
<td>Professor of Medicine (primary appointment)</td>
<td>Professor of Biochemistry and Molecular Biophysics</td>
<td>MD Duke University 1979 PDH Duke University 1978</td>
</tr>
<tr>
<td>Mehrdad Saeed-Vafa, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>MD School Not Listed 2000</td>
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<tr>
<td>Joshua Michael Sae, MD</td>
<td>Instructor in Medicine (primary appointment)</td>
<td>MD Washington Univ in St. Louis 2014</td>
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<tr>
<td>Jose Bernardo Saenz, MD, PHD</td>
<td>Instructor in Medicine (primary appointment)</td>
<td>MD Washington Univ in St. Louis 2011</td>
<td>BA Cornell University 2003 BA Cornell University 2003 PHD Washington Univ in St. Louis 2009</td>
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<tr>
<td>Sonny Satnam Saggar</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
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<td>Sana Saif Ur Rehman, MD</td>
<td>Instructor in Medicine (primary appointment)</td>
<td>MD King Edward Medical College 2007</td>
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<tr>
<td>Kaori A. Sakurai</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td></td>
<td></td>
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<tr>
<td>Christine Joan Salter, MD, DC</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>BS Reading University 1982</td>
<td>MD Saint Louis University 1998 DC Logan College of Chiropractic 1991</td>
</tr>
<tr>
<td>Robert J Saltman, MD</td>
<td>Associate Professor of Clinical Medicine (primary appointment)</td>
<td>MD Washington Univ in St. Louis 1980</td>
<td>BA Yale University 1976</td>
</tr>
<tr>
<td>John Mark Samet, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>MD University of Missouri 1968</td>
<td>BS Washington &amp; Lee 1964</td>
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</tbody>
</table>
Dmitri Samovski, PHD
Instructor in Medicine (primary appointment)
PHD Hebrew University 2009

Lawrence E Samuels, MD
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MD Washington Univ in St. Louis 1976
BA University of Texas Austin 1972

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BA Berry College 1974
MD Harvard University 1978

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Professor of Genetics
BS Rochester Institute of Techno 1980
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BS Washington Univ in St. Louis 2003
MHS Washington Univ in St. Louis 2012
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BA Rutgers University 1985
MD University of South Florida 1994
PHD University of South Florida 1990
MS University of South Florida 1988

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Associate Professor of Psychiatry
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MD Oregon Health Science Univers 1975
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Virginia Minnich Distinguished Professor of Medicine (primary appointment)
Professor of Developmental Biology
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MD Harvard University 1986

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Assistant Professor of Cell Biology and Physiology
PHD University of Michigan 2011
BS Michigan State University 2004
DDENT University of Michigan 2011

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Instructor in Clinical Medicine (primary appointment)
BA University of Missouri 1989
MD University of Missouri 1989

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BA Washington Univ in St. Louis 1976
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BA Colorado College 1996

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BA University of Mississippi 1981
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BA Johns Hopkins University 1973
MD Johns Hopkins University 1976

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MD Brown University 2005

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MD University of Cincinnati 2003
BS University of Toledo 1999

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MD Saint Louis University 1996
BA Saint Louis University 1991

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MD Saint Louis University 1973
Benjamin D Schwartz, PHD, MD  
Professor of Clinical Medicine (primary appointment)  
Adjunct Professor of Medicine  
PHD School Not Listed 1971  
MD School Not Listed 1972  
BA Columbia College 1965

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Associate Professor of Medicine (primary appointment)  
MD Washington Univ in St. Louis 1987  
MA Washington Univ in St. Louis 1987  
PHD Washington Univ in St. Louis 1986  
BS University of Michigan 1980

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Assistant Professor of Emergency Medicine in Medicine (primary appointment)  
MD University of Texas Austin 2005  
BA University of Texas Austin 2001

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Instructor in Medicine (primary appointment)  
BS Washington Univ in St. Louis 2004  
MS Southern Ill Univ Edwardsville 2007  
PHD University of Michigan 2011

Lynne M Seacord, MD  
Associate Professor of Medicine (primary appointment)  
MD Washington Univ in St. Louis 1983

David Seltzer, MD  
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MD Southeastern Illinois College 1993

Jay R Seltzer, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
MD University of Missouri 1987  
BA University of Missouri 1987

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Professor of Cell Biology and Physiology  
BA University of Virginia 1977  
MD Washington Univ in St. Louis 1981

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Assistant Professor of Medicine (primary appointment)  
MBBS Grant Medical College 1999  
MD University of Mumbai 2003

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Instructor in Clinical Medicine (primary appointment)  
MD Saint Louis University 1968  
BS St Vincent College 1964

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Instructor in Clinical Medicine (primary appointment)  
BA Johns Hopkins University 1976

MD Johns Hopkins University 1982

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BA Washington Univ in St. Louis 1962  
MD Saint Louis University 1966

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PHD Johns Hopkins University 2012  
BS Nankai University 2003  
MS Fudan University 2007

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BS Nankai University 1996  
PHD Oklahoma St University 2002

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Adjunct Instructor in Medicine (primary appointment)

Gerald Stephen Shatz, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
BA Northwestern University 1970  
MD Washington Univ in St. Louis 1974

Nidal Shawahin, MD  
Instructor in Clinical Medicine (primary appointment)  
MD University of Jordan 1988

Vidal T. Sheen, MD  
Instructor in Clinical Medicine (primary appointment)  
BA Johns Hopkins University 1991  
MD University of Louisville 1995

David M. Sheinbein, MD  
Associate Professor of Medicine (Dermatology) (primary appointment)  
BA University of CA Berkeley 1987  
MD Saint Louis University 1995

Mounir M Shenouda, UNKNOWN  
Instructor in Clinical Medicine (primary appointment)  
UNKNOWN Alexandria University 1984

Adrian Shifren, MS, MBBC  
Associate Professor of Medicine (primary appointment)  
MS Washington Univ in St. Louis 2011  
MBBCH University of the Witwatersra 1996  
BS University of the Witwatersra 1993

Haina Shin, PHD  
Assistant Professor of Medicine (primary appointment)  
BA Northwestern University 2004  
PHD University of Pennsylvania 2009

Cara L Shirai, MS, PHD  
Instructor in Medicine (primary appointment)  
MS Southeast Missouri St Univers 2005  
BS Southeast Missouri St Univers 2002
PHD Saint Louis University 2010

Bernard L Shore, MD
Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1977
BS Washington Univ in St. Louis 1972

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Associate Professor of Clinical Medicine (primary appointment)
MD University of Missouri 1981
BA Brandeis University 1977

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Associate Professor of Clinical Medicine (primary appointment)
MD Wayne State University 1982
BS University of Michigan 1978

Jeffrey E Siegler, MD
Instructor in Emergency Medicine in Medicine (primary appointment)
BS University of California in Ri 2004
MD Ross University School of Medi 2011

Christine A Sigman, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 1996
BA Saint Louis University 1991

Julie Martha Silverstein, MD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Neurological Surgery
MD Drexel University 2007
BA New York University 2004

Randy B Silverstein, MD
Instructor in Clinical Medicine (primary appointment)

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)
BS Harvard University 1992
MD Brown University 1996

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

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Instructor in Clinical Medicine (primary appointment)
MD Delhi University 1975
BS Delhi University 1968

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

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

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

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BA Vassar College 1980
MD University of Virginia 1984

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PHD Oxford University 1989
BS Duke University 1986
MD Duke University 1993

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BS University of Mississippi 1983
MD University of Mississippi 1989

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Adjunct Instructor in Medicine (primary appointment)

Allen D Soffer, MD
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MD University of Missouri 1983

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PHD Emory University 2008
BS Ohio State University 2001

Rand Washburn Sommer, MD
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MD Washington Univ in St. Louis 1980
BS Davidson College 1976

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

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

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)
MD University of Illinois 2010
BS Loyola University Chicago 2005

David H. Spencer, MD, PHD
Assistant Professor of Medicine (primary appointment)
BS University of Washington 2001
MD University of Washington 2010
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)
BA New College California 1976
MD School Not Listed 1983

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

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

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

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

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

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 Lulu Hatieganu U of Med 2007

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

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

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

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

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 Cty Univ Med/Bioscience 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

Xinne Su, MS, PHD
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MS Nanjing Agriculture Univ 2003
BS Shihezi Medical College 1996
PHD Nanjing Agriculture Univ 2006

Xiong Su, PHD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Cell Biology and Physiology
BS Beijing University 1998
PHD Washington Univ in St. Louis 2004
Hamsa Subramanian, UNKNOWN
Instructor in Clinical Medicine (primary appointment)
UNKNOWN Thanjore Medical College 1990
BS St. Joseph's Convent: Trichy 1986

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

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)
BS University of Alabama 1994
MD University of AL Birmingham 1999

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)
BA Saint Louis University 2001
MD University of MO Columbia 2006

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

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)
MD University of the Philippines 1990
BS University of the Philippines 1985

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

Michael Edward Tang, MD
Instructor in Medicine (primary appointment)
MD Washington Univ in St. Louis 2014

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)
BA Indiana State University 1991
MD Indiana State University 1995
MIM Indiana State University 1999

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

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

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

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)
PHD University of Illinois 1990
MD University of Illinois 1990
BS University of Illinois 1982

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

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

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
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BS State University of New York 1976
MD Washington Univ in St. Louis 1980

Wael Toama, MD
Instructor in Medicine (primary appointment)
MD Damascus U. Medical School 2005

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

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

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MD Washington Univ in St. Louis 1977
BA Grinnell College 1970
PHD Washington Univ in St. Louis 1977

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BA Wesleyan University 1986
MD Stanford University 1992

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

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Instructor in Medical School (primary appointment)
BS Marquette University 1982
MD Univ of Wisconsin Milwaukee 1986

Doris Janet Tribune-Brown
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MD UNIVERSITY OF IOANNINA 2005

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BS University of Illinois 1990
MD University of Chicago 1998
PHD University of Chicago 1995

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BS Emory University 1968
MD Emory University 1978

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MD Univ of Nebraska at Omaha 1976
BS University of Nebraska 1972

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MD Saint Louis University 1981
BS University of Notre Dame 1977

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MD Washington Univ in St. Louis 1974
BS Saint Mary’s College 1958

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M PH Duke University 1997
MD Duke University 1997
BS University of Texas Austin 1993

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BA Washington Univ in St. Louis 1970
MD Washington Univ in St. Louis 1976
PHD Washington Univ in St. Louis 1976

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Instructor in Medicine (primary appointment)
MASTERS Institute of Medical Science 2005
MASTERS Indian Institute of Science 2011
<table>
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<tr>
<th>Name</th>
<th>Degree</th>
<th>Institution</th>
<th>Date</th>
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<tbody>
<tr>
<td>Robert C. Uchiyama, MD</td>
<td>BA Delhi University 2003</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mark C Udey, PHD, MD</td>
<td></td>
<td>PHD Washington Univ in St. Louis 1982</td>
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<td>Fumihiko Urano, MD, PHD</td>
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<td>BS Univ of Wisconsin Madison 1975</td>
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<td>Geoffrey L Uy, MA, BA1, MD</td>
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<td>MD Washington Univ in St. Louis 1982</td>
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<td>Justin Marinus Vader, MD</td>
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<td>Brij R Vaid, MD</td>
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<td>Albert Lee Van Amburg III, MD</td>
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<td>Brian Andrew Van Tine, MD, PHD</td>
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<td>Gil M Vardi, MD</td>
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<td>Deborah J Veis, PHD, MD</td>
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<td>Jason Cass Wagner, MD</td>
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<td>Stanley M Wald, MD</td>
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<td>David Wallace, MD</td>
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<tr>
<td>Laura A Wallace, MD</td>
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</tbody>
</table>

**U**

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

Mark C Udey, PHD, MD  
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MBBS CMC, Vellore, India 1990

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Burton M Wice, PHD
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Course Director for the Mini-Medical School
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BA University of Notre Dame 1967

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MD University of Kansas 1987
BA Dartmouth College 1982

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

Timothy John Williams, MD
Instructor in Medicine (primary appointment)
BA McKendree College 2008
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<thead>
<tr>
<th>Name</th>
<th>Title and Institution</th>
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<tr>
<td>John T. Milliken</td>
<td>John T. Milliken Department of Medicine (12/26/17)</td>
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<td>Monita Elaine Wilson, MS, PHD</td>
<td>Associate Professor of Medicine (primary appointment)</td>
<td>BS Southern Illinois University 1981</td>
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<td>William Casey Wilson, PHD</td>
<td>Instructor in Medicine (primary appointment)</td>
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<td>PHD Newcastle Polytechnic 2013</td>
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<td>Monita Elaine Wilson, MS, PHD</td>
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<td>Patrick H Win</td>
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<td>David William Windus, MD</td>
<td>Professor of Medicine (primary appointment)</td>
<td>BS Iowa State University 1974</td>
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<td>Karen Winters, MD</td>
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<td>Chad Alan Witt, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>MD University of Texas Southwest 2005</td>
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<td>Keith Frederic Woeltje, MD, PHD</td>
<td>Professor of Medicine (primary appointment)</td>
<td>BS University of Dallas 1984</td>
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<td>Edward M Wolfe, MD</td>
<td>Instructor in Clinical Medicine (Dermatology) (primary appointment)</td>
<td>MD Washington Univ in St. Louis 1960</td>
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<td>BA Hobart College 1956</td>
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<tr>
<td>Gerald Wolff, MD</td>
<td>Assistant Professor of Clinical Medicine (primary appointment)</td>
<td>BA Harvard University 1955</td>
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<td>Nathan E Wolins, PHD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>PHD George Washington University 1994</td>
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<td>Terrence N Wong, PHD, MD</td>
<td>Instructor in Medicine (primary appointment)</td>
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<td>John A Wood, MD</td>
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<td>Associate Professor of Medicine (primary appointment)</td>
<td>MD University of Oklahoma 1968</td>
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<td>Megan Elizabeth Wren, MD</td>
<td>Associate Professor of Medicine (primary appointment)</td>
<td>BA Washington Univ in St. Louis 1981</td>
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<td>Jeffrey M Wright, MD</td>
<td>Assistant Professor of Clinical Medicine (primary appointment)</td>
<td>Assistant Professor of Clinical Pediatrics</td>
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<td>Haojia Wu, PHD</td>
<td>Instructor in Medicine (primary appointment)</td>
<td>BS Sun Yat-Sen University 2007</td>
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<td>Xiaoobo Wu, MD</td>
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<td>MD Tongji University 1986</td>
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<td>Yan Xie, MD, MS</td>
<td>Instructor in Medicine (primary appointment)</td>
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<td>Naga M Yalla, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>MD SRTR Medical College 2005</td>
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<td>Timothy Teng-Kay Yau, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
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<td>Derek Yee, MD</td>
<td>Instructor in Medicine (primary appointment)</td>
<td>MD Rutgers University 2014</td>
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<td>Po-Yin Yen, MS, PHD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
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<td>PHD Columbia University 2010</td>
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<tr>
<td>Wayne M Yokoyama, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>Sam and Audrey Loew Levin Professor of Medicine (Rheumatology) (primary appointment)</td>
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<td>Professor of Pathology and Immunology</td>
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<td>BA University of Rochester 1974</td>
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<td>MD University of Hawaii 1978</td>
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<tr>
<td>Jun Yoshino, MD, PHD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>Assistant Professor of Developmental Biology</td>
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</tbody>
</table>

56
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PHD Duke University 1980  
MD Duke University 1980  
BA University of Colorado Boulder 1972  

Courses  

M25 Medicine 507 Practice of Medicine I  
The practice of medicine requires that physicians integrate a diverse array of knowledge. Clinicians must interview and examine a patient, understand that patient’s experience of illness, develop an evidence-based differential diagnosis, and engage patients in their treatment plan, all the while attending to the ethical dimensions of clinical medicine. Physicians must understand how to promote the health of populations as well as that of individual patients. Physicians must also master skills for lifelong learning to remain competent professionals. The Practice of Medicine I (TPM I) is the first part of a three-year course about the interfaces between patient, doctor and society. The course is organized around the Content Areas described below. In addition, regular Integrative Case Sessions will highlight the interrelationships of the TPM Content Areas. Primary Care Preceptor sessions will provide each student with an introductory experience in outpatient medicine. Content Areas:  
• The Experience of Illness, Stephen S. Lefrak, MD. The practice of medicine reflects the tension between the unique story of individual patients and the generalized scientific understanding of disease. Physicians must learn to understand and resolve this tension as much as possible. The Experience of Illness is intended to help the student become aware of those areas that determine this unique response to biological processes. In addition to readings and small group discussions, students will write both a personal illness narrative and a patient-centered narrative following a home visit to a patient.  
• Health Promotion/Disease Prevention, Bradley Evanoff, MD, MPH. This overview of public health and preventive medicine will combine theory and application to allow students to interpret the scientific literature, to approach clinical medicine with an emphasis on prevention, and to understand aspects of the social, economic, and political environments which affect health and health care. We will focus on methods of primary and secondary prevention, and on nutritional, environmental, and behavioral factors that impact health. Discussions will include immunization, screening for chronic diseases, and effects of toxic exposures.  
• Scientific Method of Clinical Medicine and Research, Jay F. Piccirillo, MD. Students will learn the central role of clinical epidemiology and medical statistics in the care of patients, the critical review the published literature, and the conduct of clinical research. Students will also learn to use
computerized statistics and spreadsheet programs, as well as how to measure and improve the quality of care.

- Clinical Skills, Yoon Kang, MD. Students will perform a complete physical exam (excluding neurologic and mental status exams). Additionally, students will learn how to summarize the exam findings in a written form, both in the context of a complete history and physical note and a daily progress note (i.e., SOAP note).
- Doctor-Patient Communication, Elliot E. Abbey, MD. This section begins development of physician-patient communication skills through several mechanisms. Students will observe their small group instructors taking medical histories from hospitalized patients. Subsequently, the instructors will observe student-patient interaction in the same setting. Lectures regarding the standard components of the history will coincide with the instructor role-modeling segment. Finally, videotapes illustrating examples of positive and negative aspects of communication will be utilized.
- The Ethics and Context of Medicine, Rebecca Dresser, JD. This content area introduces students to ethical, social, and legal issues arising in the practice of medicine. Topics to be covered include: the responsibilities of medical professionals; the doctor-patient relationship; and the organization and financing of health care. Issues in resource allocation, clinical research and genetics will also be addressed.

Credit 198.5 units.

M25 Medicine 605A Infectious Diseases
The infectious diseases course now includes a basic discussion of medical microbiology previously taught in the first year. The infectious disease portion emphasizes both organism-specific and organ-specific approaches to disease caused by microbes. The course aims to expand upon the material presented in the first year concerning bacteria, viruses, fungi and parasites and their involvement in causation of human disease. Educational methods include lecture and clinical case discussions in small groups.

Credit 51 units.

M25 Medicine 606A Rheumatology
The rheumatology pathophysiology course begins with an overview of the structure, function and physiology of the normal joint. The pathophysiology of both localized joint disorders such as osteoarthritis and infectious arthritis are then presented, along with systemic inflammatory disorders including rheumatoid arthritis, lupus and vasculitis. Diagnosis, pharmacologic management and rehabilitation of these conditions are included. In small group sessions, students interview patients and observe the characteristic physical findings of these disorders.

Credit 17 units.

M25 Medicine 607 Practice of Medicine II
The goal of The Practice of Medicine (TPM) is to provide students with a set of knowledge, skills and attitudes essential to patient care regardless of specialty. TPM II is a continuation of TPM I and will build on concepts introduced during TPM I. TPM II will continue to address various interfaces between patients, physicians and society and will also introduce approaches to clinical thinking and decision-making in the context of today's socioeconomic and cultural environment. The sections of TPM II include Advanced Physical Examination, Case Development, Communication, Ethics and Health Policy, Health Promotion/ Disease Prevention, Interpreting Illness, Ophthalmology, Patient Sessions, Radiology, and Scientific Methods. The learning objectives for each section of TPM II emphasize topics and skills utilized in all fields of medicine, and the majority of the course work for TPM II will be taught in small groups or through clinical experiences.

Credit 99 units.

M25 Medicine 611B Cardiovascular Disease
The purpose of this course is to consider the mechanisms and manifestations of acquired and congenital cardiovascular disorders as well as their pharmacologic treatment. Lectures and group discussions are provided which emphasize the major areas of cardiac pathophysiology and pharmacology.

Credit 30 units.

M25 Medicine 612B Pulmonary Diseases
The objectives of the pulmonary pathophysiology course include to review normal pulmonary physiology as related to specific pulmonary disease states. The focus of the course will largely be upon presentations in lectures concerning pathophysiologic principles of abnormal lung structure and function. In addition, case study problems will be discussed.

Credit 22.5 units.

M25 Medicine 613B Renal & Genitourinary Diseases
After a review of normal renal physiology and structure, the course focuses upon renal disease states including glomerulonephritis, secondary glomerul diseases, diabatic and tubulointerstitial nephropathies, disorders of fluid volume and osmolality, electrolyte and acid/base disturbances, hypertension, renal infection, nephrolithiasis, as well as acute and chronic renal failure. Teaching of renal pathophysiology is integrated with the renal segment of the pathology course. Lectures are supplemented by clinical case discussions in small groups.

Credit 38 units.

M25 Medicine 614 Dermatology
The dermatology second-year course is designed to teach medical students 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.

Credit 31 units.
M25 Medicine 620A Gastroenterology and Liver Diseases/Nutrition
This course discusses the pathophysiological mechanisms involved in producing disease of the gastrointestinal tract including esophagus, stomach, small and large intestines, liver, gall bladder and pancreas. A series of lectures related to nutrition and the impact of nutritional disorders on health and disease are also included. Lectures are supplemented by group seminars that include clinical case presentations. Credit 32 units.

M25 Medicine 625A Hematology and Oncology
The hematology pathophysiology course exposes students to common hematologic disorders and hematologic malignancies. The course utilizes lectures, clinical case discussions and practical sessions involving microscopy. Credit 39 units.

M25 Medicine 707 Practice of Medicine III
Objectives: 1. To review challenges and dilemmas relevant to the practice of clinical medicine. 2. To examine clinical experiences from a variety of perspectives. In this course, themes and topics relevant to students in their clinical stage of training are discussed. Session formats include lecture, panel discussion and/or small group. As students exchange problematic scenarios and questions, the group develops potential solutions and management schemes. *Topics in the past have included: Session 1: Complementary and Alternative Medicine; Session 2: Safe and Quality Care at BJH; Session 3: Communicating Serious Adverse Events to Patients and Families; Session 4: Intimate Partner Violence; Session 5: Medical Malpractice/Tort Reform; Session 6: Health Care Financing; Session 7: Update on the Patient Protection and Affordable Care Act (PPACA); Session 8: Clinical Practice Management; Session 9: Recognizing Personal Biases; Session 10: Evaluation and Treatment of Patients with Disabilities; Attendance at eight out of 10 POM III sessions is required to pass this course. Student may use two absences for any reason and are recommended to save them for their ACES rotation, Labor & Deliver rotation, or an emergency. Sessions will be from 12-2 p.m. on the third Tuesday of every month except for November and December. (Please note that the first session is held on the fourth Tuesday of June).

M25 Medicine 710 Medicine Clerkship
The Medicine clerkship provides supervised study of patients in both inpatient and ambulatory settings. For the inpatient rotations, students are assigned as clinical clerks to patients admitted to the general medical teaching services of Barnes-Jewish Hospital and Veterans Administration Medical Center. For the outpatient rotations, students rotate through the ambulatory general medicine clinics at Barnes-Jewish Hospital and a community-based internal medicine practice. Teaching is provided by the chief of service, attending physicians, house officers, consultants, chief residents and regularly scheduled conferences. Formal instructions is given regarding core internal medicine topics during the clerkship. A minimum of 12 weeks is required: three consecutive four-week rotations. Credit 462 units.

M25 Medicine 714 Ambulatory Clerkship: Emergency Medicine
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-aways 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 the four-week clerkship in Geriatrics is to provide an opportunity for students to gain proficiency in the principles of geriatric evaluation, including the medical, psychological, social, and functional assessments of older adults. Direct, hands-on experience with patients is a major
feature of the clerkship. Students are expected to participate in the evaluation of three to five patients per week, in a variety of settings including the hospital Acute Care for the Elderly (ACE) unit on 3200 North Campus, the Older Adult Outpatient Assessment Program (Storz building), and the Long Term Care Setting (Barnes Extended Care in Clayton). Students attend hospice, geropsychiatry rounds, and the geriatric conferences while on the rotation. Students are assigned to a variety of attending physicians according to their experience. There is no night call or on-call on weekends. Participation on the hospital consult service will occur depending on volume. The day normally begins at 8:00 a.m. and is usually finished by 5. There will be time to read the detailed syllabus/bibliography. Students will be asked to present a brief topic of their choice at the end of the rotation and demonstrate knowledge of the geriatric screens and assessments.

Credit 154 units.

M25 Medicine 801 Honors Medicine - General Medicine
The purpose of the Honors Medicine elective (sub-internship) is the development of expertise in the care of hospitalized patients in a well-supervised teaching environment. 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 attending physician. 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 house staff.

M25 Medicine 805 Rheumatology
Students will be involved in the diagnostic workup and management of patients with rheumatic illnesses including systemic lupus erythematosus, rheumatoid arthritis, vasculitis (polyarteritis, Wegener's, temporal arteritis), spondyloarthropathies (ankylosing spondylitis, reactive arthritis), osteoarthritis, gout and regional musculoskeletal problems. By working closely with a faculty member, fellows and medical residents, students become integral and active members of the rheumatology service for inpatient consultations and outpatient clinics at Barnes-Jewish Hospital. An emphasis is placed on the physical examination of joints and the musculoskeletal system, synovial fluid analysis, and interpretation of diagnostic tests and radiographs. Students attend two rheumatology conferences held weekly. A rotation limited to outpatient rheumatology is possible by prior arrangement with the course director.

M25 Medicine 807 Honors Medicine - VA Hospital
The purpose of the Honors Medicine elective (sub-internship) at the VA Medical Center is to develop practical experience and expertise in the care of hospitalized patients on an internal medicine ward. With appropriate supervision by the attending and resident physicians, sub-interns will have similar responsibilities as interns. 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. While being supervised as listed above, sub-interns assume primary responsibility for the daily care of their patients, including evaluation on daily rounds, scheduling and obtaining results of diagnostic studies, calling consults, planning therapy, making arrangements for care after discharge, and communicating with patients and their families.

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, 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 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. 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 have a shift with the toxicology attendings and residents and will 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 specialists 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 residents 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**

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 disease 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 this 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 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. Students 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 consults, 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 and supervised sessions with clinical faculty. The primary format of the elective is observation of the first-year students during hospital sessions where the first-years perform the H&P and the fourth-year mentors offer constructive feedback. Each H&P write-up is also thoroughly reviewed and critiqued by the mentor. Supervisory sessions also occur with clinical faculty who give feedback on both the performance of the first-year students as well as the mentoring skills of the fourth-year.
M25 Medicine 836 Clinical Gastroenterology and Hepatology

The GI Hepatology elective is integrated into a very active inpatient/outpatient and endoscopy service at Barnes-Jewish Hospital. Students will participate in the evaluation of ill patients and outpatients 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 biopsy, endoscopic, and intubation techniques and participate in outpatient clinic and GI conferences.

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 perioperative 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 regarding their rotation. Students will also have the opportunity to go to the Missouri Poison Center and evaluate patients in the outpatient toxicology clinic.

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 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 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 in this highly immune suppressed population. 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, sexually transmitted diseases and travel plans. Patients seen will have a wide range of acute and chronic infections with a heavy emphasis on HIV/AIDS, including 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. They are expected to 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**

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 bedside 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 pharmacological basis for systemic cancer treatment. The ethical and medical challenges of caring for patients with advanced incurable malignancies will also be an important theme, as well as the conduct of clinical research in the 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 Inpatient Internal Medicine/Oncology - Fin**

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 bedside teaching and attend tumor boards and lectures focused on the care of patients with solid tumors and lymphoma. 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 pharmacological basis for systemic cancer treatment. The ethical and medical challenges of caring for patients with advanced incurable malignancies will also be an important theme, as well as the conduct of clinical research in the 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. Major learning goals: (1) Become familiar with frequent complications of cancer treatment such as neutropenic fever, nausea/vomiting, diarrhea, infectious complications and their management. (2) Become familiar with oncologic emergencies (spinal cord compression, hypercalcemia, neutropenic sepsis) and their management. (3) Become more comfortable interacting with patients and families requiring difficult psychosocial and end-of-life discussions.

**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 not be involved in direct patient care during this rotation. Students will have access to a lecture bank of the common applications. In addition, the student will meet with the ultrasound director 1-2 times/wk 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 consultations 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 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 have in 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**
The student, during the two-week elective, will read 20-25 ECGs obtained from the Barnes-Jewish Heart Station and then overread 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.
Students will participate in several ambulatory care activities of the Pulmonary Section, including outpatient consultations of common respiratory disorders such as COPD, obstructive sleep apnea, lung cancer and tuberculosis, and follow-up of primary care patients with pulmonary disease. In addition, students will round in medical intensive care units, interpret pulmonary function tests, participate in bronchoscopy and attend scheduled teaching conferences of the Pulmonary Division.

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 885 Occupational/Environmental Medicine
This elective is designed to introduce students to research and practice in the prevention of work-related injuries and illnesses, and prevention of health effects related to environmental exposures. Preventive activities will include work site visits and intervention projects, as well as involvement with work site health promotion and policy making. Research projects involve epidemiology and intervention projects in work-related injury and musculoskeletal disorders. Specific activities are flexible depending on the students’ interests. Students may elect to participate in the Interdisciplinary Environmental Clinic at Washington University. Based in the law school, the clinic involves interdisciplinary teams of students (law, engineering, environmental science) taking principal responsibility, under faculty supervision, for cases and projects on behalf of environmental and community organizations. The medical student(s) assist clinic students by evaluating the human health impacts involved in one or more of the clinic’s cases, and presenting such information to the client organization(s) and others. Among the cases on which medical students might participate are: (1) air pollution associated with factories in the St Louis metropolitan area; (2) lead poisoning of children and adults in St. Louis and surrounding towns; (3) air and water pollution caused by concentrated animal feeding operations (factory farms) in Missouri. Students choosing this option will work with the Environmental Clinic staff and with Dr. Evanoff to evaluate and present evaluations of human health impacts of environmental exposures.

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.