Instruction in medicine is provided during all four years of the medical curriculum, beginning with Practice of Medicine I (Medicine 507) during the first year. Teaching during the second year has two main objectives: (1) the correlation of the basic sciences with clinical aspects of disease; and (2) training in the technical methods of physical examination and laboratory diagnosis. By the beginning of the third year, the student is ready for the 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. During the final year, students may select a sub-internship in general medicine and a series of elective courses in the medical specialties.

Website: https://internalmedicine.wustl.edu

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:

Victoria J. Fraser, MD (https://infectiousdiseases.wustl.edu/faculty-staff/victoria-j-fraser/)
Adolphus Busch Professor of Medicine and Chair

Jeffrey S. Crippin, MD (https://profiles.wustl.edu/en/persons/jeffrey-crippin/)
Marilyn E. Bornefeld Chair in Gastrointestinal Research and Treatment and Professor of Medicine
Vice Chair of Clinical Programs

Andrew Odden, MD (https://profiles.wustl.edu/en/persons/andrew-odden/)
Associate Professor of Medicine
Vice Chair of Patient Safety

Roberto Civitelli, MD (https://profiles.wustl.edu/en/persons/roberto-civitelli/)
Sydney M. & Stella H. Schoenberg Professor of Medicine
Chief, Division of Bone and Mineral Diseases

Lynn A. Cornelius, MD (https://profiles.wustl.edu/en/persons/lynn-cornelius/)
Winfred A. and Emma R. Showman Professor of Dermatology in Medicine
Chief, Division of Dermatology

Nicholas O. Davidson, MD (https://profiles.wustl.edu/en/persons/nicholas-davidson/)
John E. and Adaline Simon Professor of Medicine
Chief, Division of Gastroenterology

Thomas M. De Fer, MD (https://profiles.wustl.edu/en/persons/tom-de-fer/)
Professor of Medicine
Interim Chief, Division of General Medicine

John F. DiPersio, MD, PhD (https://profiles.wustl.edu/en/persons/john-dipersio/)
Virginia E. and Sam J. Golman Professor of Medicine
Chief, Division of Oncology

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

Gregory A. Ewald, MD (https://profiles.wustl.edu/en/persons/gregory-ewald/)
Professor of Medicine
Interim Chief, Division of Cardiology

Daniel M. Goodenberger, MD (https://profiles.wustl.edu/en/persons/daniel-goodenberger/)
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 (https://profiles.wustl.edu/en/persons/michael-holtzman/)
Selma and Herman Seldin Professor of Medicine
Chief, Division of Pulmonary and Critical Care Medicine

Benjamin D. Humphreys, MD, PhD (https://profiles.wustl.edu/en/persons/benjamin-humphreys/)
Joseph P. Friedman Professor of Renal Diseases in Medicine
Chief, Division of Nephrology

Peggy L. Kendall, MD (https://allergy.wustl.edu/peggy-kendall-md/)
Associate Professor of Medicine
Chief, Division of Allergy and Immunology

Samuel Klein, MD (https://profiles.wustl.edu/en/persons/samuel-klein/)
William H. Danforth Professor of Medicine and Nutritional Science
Chief, Division of Geriatrics and Nutritional Sciences

Associate Professor of Medicine
Interim Chief, Division of Hospital Medicine
Elaine M. Majerus, MD, PhD, MD (https://profiles.wustl.edu/en/persons/elaine-majerus/)
Professor of Medicine
Interim Chief, Division of Hematology

Christine Pham, MD (https://profiles.wustl.edu/en/persons/christine-pham/)
Guy and Elia Mae Magness Professor of Medicine
Chief, Division of Rheumatology

Jennifer A. Philips, MD, PhD (https://profiles.wustl.edu/en/persons/jennifer-philips/)
Associate Professor of Medicine
Co-Chief, Division of Infectious Diseases

Dr. J. William Campbell Professor of Medicine
Co-Chief, Division of Infectious Diseases

Clay F. Semenkovich, MD (https://profiles.wustl.edu/en/persons/clay-semenkovich/)
Irene E. and Michael M. Karl Professor of Endocrinology and Metabolism in Medicine
Chief, Division of Endocrinology, Metabolism and Lipid Research

Patrick H. White, MD (https://profiles.wustl.edu/en/persons/patrick-white/)
The Stokes Family Endowed Chair in Palliative Medicine and Supportive Care Chair and Associate Professor of Medicine
Chief, Division of Palliative Care Medicine

Visit our website for more information about our faculty (https://internalmedicine.wustl.edu/divisions/) and their appointments.

A

Eva Marie Aagaard, MD
Carol B and Jerome T Loeb Professor of Medical Education (primary appointment)
Associate Vice Chancellor for Medical Education
Sr Associate Dean for Education
BA University of CA Santa Barbara 1991
MD Cornell University 1995

Elliot Efrem Abbey, MD
Professor of Clinical Medicine (primary appointment)
BA Cornell University 1971
MD New York University 1975

Camille N. Abboud, MD
Professor of Medicine (primary appointment)
MD American University of Beirut 1974
BS American University of Beirut 1970

Ramzi I Abboud, DIP, MD
Instructor in Medicine (primary appointment)
DIP Washington Univ in St. Louis 2008
BS University of Pennsylvania 2001
MD University of Rochester 2014

Basem Abdeen, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Jordan 2001

Khaled M Abdel-Hamid
Instructor in Clinical Medicine (primary appointment)

Haley J Abel, PHD, MA
Instructor in Medicine (primary appointment)
PHD Washington Univ in St. Louis 2009
MA Washington Univ in St. Louis 2005

Grazia Abou Ezzi, MS, PHD, MS
Instructor in Medicine (primary appointment)
MS University of Paris 2009
BS Holy Spirit Univ of Kaslik 2006
MS University of Nice 2008

Barry K Abramson, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Miami 1985
BA Johns Hopkins University 1981

Nada A Abumrad, PHD
Robert C Atkins Professor of Obesity Research in Medicine (primary appointment)
Professor of Cell Biology and Physiology
BS American University of Beirut 1972
PHD State University of New York 1978

Susan R Adams, MD
Instructor in Clinical Medicine (primary appointment)
BA Carleton College 1985
MD University of Missouri 1989

Foluso O Ademuyiwa, M PH, MBBS
Associate Professor of Medicine (primary appointment)
M PH Johns Hopkins University 2001
MBBS University of Ibadan 1999

Douglas R Adkins, MD
Professor of Medicine (primary appointment)
MD Wright State University 1986
BS Wright State University 1982

Amber Afzal, MD
Instructor in Medicine (primary appointment)
MD Army Medical College 2010

Homaa Ahmad, MD
Assistant Professor of Medicine (primary appointment)
MD Johns Hopkins University 2003
BA Johns Hopkins University 1999

Abdulla Akfaly, MD
Instructor in Clinical Medicine (primary appointment)
MD Aleppo University 1991

Ziyad Al-Aly, MD
Assistant Professor of Medicine (primary appointment)
Bassam Albarcha
Instructor in Clinical Medicine (primary appointment)

Jorge M Alegre, MD
Instructor in Clinical Medicine (primary appointment)
MD School Not Listed 1965

Jennifer Marie Alexander-Brett, PHD, MD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Pathology and Immunology
BS University of Nebraska 1999
PHD Washington Univ in St. Louis 2007
MD Washington Univ in St. Louis 2007

Tarek Alhamad, MS, MD
Associate Professor of Medicine (primary appointment)
MS Pennsylvania State University 2013
MD Damascus U. Medical School 2006

Muhammad A Ali, MD
Instructor in Clinical Medicine (primary appointment)
MD School Not Listed 1985

Florence Michelle Almiron-Torralba
Instructor in Clinical Medicine (primary appointment)

Rajaa Almouri, MD
Instructor in Medicine (primary appointment)
MD Damascus University School of 2007

David Hershel Alpers, MD
William B Kountz Professor of Gerontology in Medicine (primary appointment)
BA Harvard University 1956
MD Harvard University 1960

Osama Al Sayar, MD
Assistant Professor of Medicine (primary appointment)
MD Damascus University 2011

David Michael Alvarado, PHD
Instructor in Medicine (primary appointment)
BS University of South Florida 2007
PHD Johns Hopkins University 2014

Jose A Alvarez-Cardona, MD
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
MD University of Puerto Rico 2011

Jamaluddin Faisah Almanullah
Instructor in Clinical Medicine (primary appointment)

Amit P. Amin, MD
Associate Professor of Medicine (primary appointment)
MD Government Medical College 1997

Surachai Amornsawadwattana, MD
Assistant Professor of Medicine (primary appointment)
MD Mahidol University 2002

Milan J. Anadkat, MD
Professor of Medicine (Dermatology) (primary appointment)
MD Ohio University 2001
BS University of Akron 1997

Adam Lee Anderson, MD
Assistant Professor of Medicine (primary appointment)
BS University of Illinois Chicago 2006
MD University of Illinois Chicago 2010

Scott J Anderson, MD, PHD
Instructor in Clinical Medicine (primary appointment)
MD Duke University 1982
PHD Duke University 1981
BA University of California 1975

Muhammad Jaffer Ansari
Assistant Professor of Clinical Medicine (primary appointment)

George Ansstas, MD
Associate Professor of Medicine (primary appointment)
MD Tishreen Univ College of Med 2001

Alison Lynne Antes Schuelke, MS, PHD
Assistant Professor of Medicine (primary appointment)
MS University of Oklahoma 2007
BS Indiana State University 2005
BS Indiana State University 2005
PHD University of Oklahoma 2010

Olivia Aranha, PHD, MS, MD
Assistant Professor of Medicine (primary appointment)
PHD Wayne State University 2000
MS University of Detroit 1998
MD University of Bombay 1995

Suzanne V Arnold, MD, MHA
Adjunct Assistant Professor of Medicine (primary appointment)
MD Ohio State University 2004
MHA Ohio State University 2004

Vivek Kumar Arora, MD, PHD
Assistant Professor of Medicine (primary appointment)
MD University of Texas Southwest 2004
BS Northwestern University 1996
PHD University of Texas Southwest 2004

Saira M Asadullah, MD
Instructor in Clinical Medicine (primary appointment)
MD Aga Khan University 1992

Motaz Hamzah Ashkar, MBBS
Assistant Professor of Medicine (primary appointment)
MBBS King Abdul-Aziz University 2006

Jordan Jerrell Atkins, MD
Instructor in Medicine (primary appointment)
BS Morehouse College 2010
MD Washington Univ in St. Louis 2015

Jeffrey Jay Atkinson, BS1, MD1, MD
Associate Professor of Medicine (primary appointment)
Associate Professor of Pediatrics
BS1 Loyola College 1990
MD1 Hahnemann University 1994
BS Loyola College 1990
MD Hahnemann University 1994

John Patterson Atkinson, MD
Samuel Grant Professor of Medicine (primary appointment)
Professor of Molecular Microbiology
BA University of Kansas 1965
MD University of Kansas 1969

Himachandana Atluri, MD
Instructor in Medicine (primary appointment)
Instructor in Medicine
BA University of MO Kansas City 2016
MD University of MO Kansas City 2017

Crystal Lynn Atwood, MD
Assistant Professor of Medicine (primary appointment)
MD University of Illinois Chicago 2009

James G Avery, MD
Associate Professor of Clinical Medicine (primary appointment)
MD University of Tennessee 1990
BA Washington Univ in St. Louis 1986

Riad Azar, MD
Associate Professor of Medicine (primary appointment)
MD Saint Josephs University 1994

Hilary M Babcock, MPH, MD
Professor of Medicine (primary appointment)
BA Brown University 1989
MPH Saint Louis University 2006
MD University of Texas Southwest 1994

Richard G. Bach, MS, MD
Professor of Medicine (primary appointment)
MS New York University 1980
MD New York University 1984
BS Georgetown University 1977

Nusayba Bagegni, MD
Assistant Professor of Medicine (primary appointment)
BS University of MO Columbia 2005
MD U of IA Carver College of Med 2010

Maria Quintos Baggsstrom, MD
Associate Professor of Medicine (primary appointment)
BA Williams College 1991
MD University of Texas Houston 1996

Om Parkash Bahl, MS
Assistant Professor of Clinical Medicine (primary appointment)
MS Punjab University 1957

Donald M Bailey
Adjunct Instructor in Medicine (primary appointment)

Thomas C Bailey, MD
Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 1984
BA William Jewell College 1980

Erin L Bakanas, MD
Professor of Medicine (primary appointment)
MD University of Connecticut 1987

Faris Adam Bakeer, MD
Instructor in Medicine (primary appointment)
MD East Tennessee State Universi 2016
BS Union University 2011

Gregory Eden Baker, MD
Instructor in Clinical Medicine (primary appointment)
MD Mayo Clinic 2001

Megan Tierney Baldridge, MD, PHD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Molecular Microbiology
MD Baylor College of Medicine 2011
PHD Baylor College of Medicine 2009

Fred J Balis, MS, MD
Assistant Professor of Clinical Medicine (primary appointment)
BS University of Vermont 1981
MS Cornell University 1985
MD Washington Univ in St. Louis 1989

Clarence William Balke, MD
Professor of Medicine (primary appointment)
BS Haverford College 1975
MD Temple University 1981

Wenners Ballard, MD
Instructor in Medicine (primary appointment)
MD Howard University 2015

Monika Bambouskova, MS, PHD
Instructor in Medicine (primary appointment)
BS Charles University 2007
MS Charles University 2009
PHD Charles University 2016

David Ban, MD
Associate Professor of Clinical Medicine (primary appointment)
BA Kalamazoo College 1976
MD University of Oregon 1980

James William Banks, MD
Instructor in Clinical Medicine (primary appointment)
MD Marshall University 1984

Abraham Barake, MD
Associate Professor of Clinical Medicine (primary appointment)
BS University of Maryland 1976
MD School Not Listed 1983

Thomas J Baranski, MD, PHD
Associate Professor of Medicine (primary appointment)
Associate Professor of Developmental Biology
BS Univ of Wisconsin Madison 1985
MD Washington Univ in St. Louis 1992
PHD Washington Univ in St. Louis 1992

Rachel Hannah Bardowell, MD
Assistant Professor of Medicine (primary appointment)
MD University of Miami 2009

Philip M Barger, MD
Associate Professor of Medicine (primary appointment)
MD Case Western Reserve Univ 1989

Ernie-Paul Barrette, MA, MD
Professor of Medicine (primary appointment)
MA Harvard University 1984
MD Harvard University 1990
BS University of Rhode Island 1982

Thomas Joseph Bartholet, MD, MD1
Instructor in Clinical Medicine (primary appointment)
MD Dartmouth College 1992
BS Georgetown University 1990
MD1 Brown University 1994

Nancy Lee Bartlett, MS, MD
Koman Professor of Medical Oncology in Medicine (primary appointment)
MS Mass Inst of Technology (MIT) 1979
MD Washington Univ in St. Louis 1986
BS Stanford University 1978

Robert W Barton, MD, PHD
Assistant Professor of Clinical Medicine (primary appointment)
BS University of Chicago 1962
MD University of Chicago 1967
PHD University of Chicago 1967

Jeannine Basta, PHD
Assistant Professor of Medicine (primary appointment)
PHD Saint Louis University 2012
BS Lindenwood University 2006

Luiz Francisco Zirnberger Batista, PHD
Associate Professor of Medicine (primary appointment)
Associate Professor of Developmental Biology
PHD University of SAO Paulo 2008
BS University of SAO Paulo 2003

Erin Renee Baum, MD
Instructor in Medicine (primary appointment)
BS Loyola University Chicago 2012
MD Loyola University Chicago 2017

Natalie Marie Baumann, MD
Instructor in Medicine (primary appointment)
MD Saint Louis University 2017
BS University of Notre Dame 2013

Frederick D Bauschard, MD
Assistant Professor of Clinical Medicine (Dermatology) (primary appointment)
BA Allegheny College 1964
MD University of Pittsburgh 1968

Michael D Bavlsik, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD Rutgers University 1991
BS Seton Hall University 1987

Susan Joy Bayliss, MD
Professor of Medicine (Dermatology) (primary appointment)
Professor of Pediatrics
BA University of Texas Austin 1970
MD University of Texas Galveston 1974

C. Elliott Bell Jr, MD
Instructor in Clinical Medicine (primary appointment)
MD Tulane University 1964
BS Tulane University 1960

Richard C Bell, MD
Instructor in Clinical Medicine (Dermatology) (primary appointment)
BA Northwestern University 1984
MD Washington Univ in St. Louis 1988

William Waite Benedict, MD
Instructor in Clinical Medicine (primary appointment)
BS University of Illinois 1971
MD Washington Univ in St. Louis 1975

Michael Charles Bennett, MD
Assistant Professor of 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)
BS Brown University 1994
MD Washington Univ in St. Louis 2000

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)
Professor of Cell Biology and Physiology  
MD Universidad del Valle Med Sch 1990

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

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

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)  
MD University of Illinois 1978  
BA Rockford College 1974

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

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

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

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, MS, PHD  
Instructor in Medicine (primary appointment)  
MS Banaras Hindu University 1992  
PHD Banaras Hindu University 1999

BS Tilka Manjhi Bhagalpur Univ 1988  
Valerie Blanc, PHD, MS  
Instructor in Medicine (primary appointment)  
PHD University of Bordeaux 2 1996  
MS University of Bordeaux 2 1992

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

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

Donald Allen Blum  
Assistant Professor of Clinical Medicine (primary appointment)

Imre Bodo  
Adjunct Instructor in Medicine (primary appointment)

Michael Bolger  
Instructor in Clinical Medicine (primary appointment)

Kelly Bolton, M PHIL, PHD, MD  
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)  
M PHIL Cambridge University 2008  
PHD Cambridge University 2011  
BA Cornell University 2004  
MD University of CA Los Angeles 2013

Matthew James Bonzelet, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Saint Louis University 2009

Adrianus C Boon, PHD, MS  
Associate Professor of Medicine (primary appointment)  
Associate Professor of Molecular Microbiology  
Associate Professor of Pathology and Immunology  
PHD Erasmus University Rotterdam 2003  
MS University of Amsterdam 1997

Jamie Marie Borgmann  
Instructor in Clinical Medicine (primary appointment)

Benjamin A Borowsky, MD  
Professor of Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 1958

Jonathan D Bortz, MD  
Instructor in Clinical Medicine (primary appointment)  
MD University of the Witwatersra 1979

Ron Bose, MD, PHD, PHD1  
Associate Professor of Medicine (primary appointment)  
Associate Professor of Cell Biology and Physiology  
MD Cornell University 1999  
PHD Cornell University 1998
PHD1 Cornell University 1998
BA University of Rhode Island 1991
BS University of Rhode Island 1991
Matthew S Bosner, MD
Assistant Professor of Clinical Medicine (primary appointment)
BS Muhlenberg College 1979
MD University of Texas Austin 1983
William G Bowen, MD
Professor of Clinical Medicine (primary appointment)
BS Davidson College 1970
MD University of North Carolina 1974
Lyndsey Jean Bowman, PHD
Adjunct Instructor in Medicine (primary appointment)
PHD St Louis College of Pharmacy 2005
Joseph Brancheck, MD
Instructor in Medicine (primary appointment)
MD University of Illinois 2013
Alan C Braverman, MD
Alumni Endowed Professor of Cardiovascular Disease in Medicine (primary appointment)
BA University of MO Kansas City 1984
MD University of Missouri 1985
Andrea Lynn Bredemeyer, PHD
Instructor in Medicine (primary appointment)
BA Colby College 1999
PHD Washington Univ in St. Louis 2006
Thomas J. Brett, PHD
Associate Professor of Medicine (primary appointment)
Associate Professor of Biochemistry and Molecular Biophysics
Associate Professor of Cell Biology and Physiology
PHD University of Nebraska 1999
BS North Dakota State University 1992
Matthew Brinkmeier, BS1, MD
Instructor in Medicine (primary appointment)
BS1 Washington Univ in St. Louis 2001
MD Washington Univ in St. Louis 2007
Natalia Brito Rivera, MD
Instructor in Medicine (primary appointment)
BA Cornell University 2011
MD Washington Univ in St. Louis 2016
Steven L Brody, MD
Dorothy R and Hubert C Moog Professor of Pulmonary Diseases in Medicine (primary appointment)
Professor of Radiology
MD University of Michigan 1980
Rita Thomas Brookheart, PHD
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Pediatrics
BA Sweet Briar College 2003
PHD Washington Univ in St. Louis 2009
Angela L Brown, MD
Professor of Medicine (primary appointment)
BS Southern Methodist University 1987
MD Washington Univ in St. Louis 1992
Ashley Elizabeth Brown, MD
Instructor in Medicine (primary appointment)
BS Cornell University 2012
MD University of Central Florida 2017
BS Cornell University 2012
David L. Brown, MD
Professor of Medicine (primary appointment)
BA University of Texas Austin 1977
MD Baylor University 1982
Jeffrey Wade Brown, MD, PHD
Instructor in Medicine (primary appointment)
MD Boston University 2012
PHD Boston University 2012
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
Monique W. Bruinsma, MD
Instructor in Medicine (primary appointment)
MD Washington Univ in St. Louis 2016
Kathleen S Brunts, MD
Instructor in Clinical Medicine (primary appointment)
BS Western Michigan University 1977
MD Saint Louis University 1981
Stanley Buck, MD
Instructor in Clinical Medicine (primary appointment)
BS Princeton University 1973
MD Washington Univ in St. Louis 1977
Philip J Budge, MD, BS1, PHD
Assistant Professor of Medicine (primary appointment)
MD Vanderbilt University 2007
BS Brigham Young University 1998
BS1 Brigham Young University 1998
PHD Vanderbilt University 2003
Benjamin Paul Buettner, MD
Instructor in Medicine (primary appointment)
MD Wright State University 2016
BS Miami University 2012
Jason P Burnham, MD, BS1
Assistant Professor of Medicine (primary appointment)
BS Southwestern University 2008
MD University of Texas Galveston 2012
BS1 Southwestern University 2008
Donald F Busiek, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Missouri 1983
BA Saint Louis University 1974

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

Melvin J Butler
Instructor in Clinical Medicine (primary appointment)

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

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

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

Matthew David Cain, PHD
Assistant Professor of Medicine (primary appointment)
PHD Washington Univ in St Louis 2014
BS Rhodes College 2007

Juan Jose Calix, MD, PHD
Instructor in Medicine (primary appointment)
BA Loyola University 2005
MD University of AL Birmingham 2014
PHD University of AL Birmingham 2014

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

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

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

Song Cao, PHD, BE
Instructor in Medicine (primary appointment)
PHD ZHEJIANG UNIVERSITY 2003
BE Harbin University of Science a 1999

Rebecca Goodwin Carey
Adjunct Instructor in Medicine (primary appointment)

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

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

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

Amanda Fishback Cashen, MD, BS1
Professor of Medicine (primary appointment)
Executive Chair Washington University Institutional Review Board
MD Washington Univ in St Louis 1999
BS Yale University 1995
BS1 Yale University 1995

Roque Castillo, MD
Assistant Professor of Medicine (primary appointment)
MD Universidad Peruana Cayetano 1993

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

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

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

Dennis Tian-Shu Chang, MD, MED
Associate Professor of Medicine (primary appointment)
MD University of Chicago 2003
BS Yale University 1999
MED University of Chicago 2003
Kae Pyng Chang, MD  
Instructor in Clinical Medicine (primary appointment)  
BA Washington Univ in St. Louis 1991  
MD University of Missouri 1995

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

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

Salman Chaudhry, MBBS  
Instructor in Medicine (primary appointment)  
MBBS Agha Khan University, Pakistan 2007

Lakshmi Ramya Chelapareddy, MBBS  
Instructor in Medicine (primary appointment)  
MBBS Dr. NTR University of Health S 2010

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

Chien-Huan Chen, PHD, MD  
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)  
PHD Washington Univ in St. Louis 2012  
MD Washington Univ in St. Louis 2012  
BS University of Michigan 2003

Dennis Di Chen, MD  
Assistant Professor of Medicine (primary appointment)  
MD Univ of Texas San Antonio 2012

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  
PHD University of Utah 1998  
BS Fudan University 1991

Phyllis Chen, MD  
Instructor in Clinical Medicine (primary appointment)  
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, MD  
Assistant Professor of Medicine (primary appointment)  
BS Vanderbilt University 2010  
MD Washington Univ in St. Louis 2014

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

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

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

Milan G Chheda, MD  
Assistant Professor of Medicine (primary appointment)  
Assistant Professor of Neurology  
MD Albert Einstein College of Med 2001

Rebecca Joy Chibnall, MD, AA  
Assistant Professor of Clinical Medicine (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)

Jaehyung Cho, BS1, MS, PHD  
Professor of Medicine (Pending Executive Faculty Approval)  
(secondary appointment)  
BS1 Chung-Ang University 1994  
MS Chung-Ang University 1996  
PHD Univ of Wisconsin Madison 2006

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

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

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

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

Andy Chuu, MD  
Assistant Professor of Medicine (primary appointment)  
BA University of MO St Louis 2010  
MD University of Arizona 2015  

Jeffrey Peter Ciaramita  
Instructor in Clinical Medicine (primary appointment)  

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

Vincenza Cifarelli, PHD, MS  
Assistant Professor of 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)  
MD University of Michigan 1996  
BS University of Michigan 1993  

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

Katherine K Clifton, MD  
Assistant Professor of Medicine (primary appointment)  
MD Loyola University Chicago 2013  
BA Saint Louis University 2009  

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

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

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

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

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

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

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

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

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

Matthew Cooper, PHD  
Adjunct Assistant Professor of Medicine (primary appointment)  
BS University of Surrey 2004  
PHD University of Surrey 2008  

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

Dominique Leah Cosco, MD  
Associate Professor of Medicine (primary appointment)  
MD Tulane University 2005  

Natalie Danielle Cosgrove, MD  
Assistant Professor of Medicine (primary appointment)
MD Temple University 2011

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

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

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

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

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

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

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

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

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

**Lenise Andrea Cummings-Vaughn, MS, MD**  
Associate 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

**Stacy Zhao Dai, MD**  
Instructor in Medicine (primary appointment)  
BA Brandeis University 2009  
MD Washington Univ in St. Louis 2013

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

**Ha Xuan Dang, PHD**  
Instructor in Medicine (primary appointment)  
PHD Virginia Tech 2014  
BS HANOI U OF SCIENCE AND TECH 2003

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

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

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

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

Anthony Trung Dao, MD
Instructor in Medicine (primary appointment)
BS Northeast Ohio Medical U 2012
MD Northeast Ohio Medical U 2016

Bhajan Shewaladas 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

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

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

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

Andrew Adam Bernstein Davis, MD
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
MD Northwestern University Med 2014
BA Cornell University 2009

James Alvin Davis, MD
Assistant Professor of Medicine (primary appointment)
MD University of Kentucky 1999
BS Morehead St University 1994

Thomas Edward Davis
Instructor in Clinical Medicine (primary appointment)

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

Thomas M De Fer, MD
Associate Dean of Medical Student Education
Professor of Medicine
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

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

Joshua Thomas Dearborn, MS, PHD
Instructor in Medicine (Pending Dean’s Approval) (primary appointment)
MS University of MO St Louis 2007
BS University of MO St Louis 2005
PHD University of MO St Louis 2013

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

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

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

Rowena Bayudan Delos Santos, MD
Associate 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
Amber Zimmer Deptola, MD
Assistant Professor of Medicine (primary appointment)
BS Miami University 2008
MD University of Louisville 2012

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
BA Meredith College 1981
PHD University of Georgia 1985
MS University of Georgia 1983

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

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

Michael D DeVita, MD
Assistant Professor of Medicine (primary appointment)
BS University of Wisconsin 2006
MD University of Wisconsin 2011

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

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

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

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

Colin Diffie, MD
Assistant Professor of Medicine (primary appointment)

BA University of Texas Austin 2008
MD Univ of Texas Med Sch Houston 2014
BA University of Texas Austin 2008

Hanan M Dihowm, MBCHB
Instructor in Medicine (primary appointment)
MBCHB Misurate University 2006

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

John F Dipersio, PHD, MD
Virginia E and Sam J Golman Professor of Medicine (primary appointment)
Professor of Pathology and Immunology
Professor of Pediatrics
BA Williams College 1973
PHD University of Rochester 1980
MD 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
Professor of Medicine (primary appointment)
Professor of Cell Biology and Physiology
Professor of Obstetrics and Gynecology
MD All-India Inst of Medical Sci 1997

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

James W Donnelly, MD
Instructor in Clinical Medicine (Dermatology) (primary appointment)
BA Northwestern University 1982
MD Washington Univ in St. Louis 1986

Balraj Doray, PHD
Associate 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

Nicole Camille Droz, MD
Assistant Professor of Medicine (primary appointment)
MD Creighton University 2013

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

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

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

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

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

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

Evan Louis Dupart, MD
Instructor in Medicine (primary appointment)
MD University of Colorado Denver 2017

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

Adriana S Dusso, PHD
Associate Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
PHD Univ Nacional De Rosario 1985
BS Univ Nacional De Rosario 1969

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

E

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

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

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

Cady Beedy Edwards, MD
Instructor in Medicine (primary appointment)
BS University of Alabama 2013
MD University of South Alabama 2017

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

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

Stilianos Efstratiadis
Assistant Professor of Clinical Medicine (primary appointment)

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

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

Syed Usman Mohsin Ehsanullah, MBBS
Instructor in Medicine (primary appointment)
MBBS Baqai Medical University, Kara 2020

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

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

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

Jack El Sawda, MD
Instructor in Medicine (Pending Dean's Approval) (primary appointment)
MD University of Balamand, Lebano 2014

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

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

Melissa Berrien Elliott, PHD
Instructor in Medicine (primary appointment)
PHD Saint Louis University 2014
BS Eckerd College 2006

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

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

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

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

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

Ingrid Eshun-Wilsonova, MS, MD
Instructor in Medicine (primary appointment)
MS University College London 2009
MD University of Cape Town 2000

Amir Esmaeeli, MD
Instructor in Medicine (primary appointment)
MD Washington Univ in St. Louis 2015

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

BS Vanderbilt University 1979

Bradley A Evanoff, M PH, MD
Richard A and Elizabeth Henby Sutter Professor of Occupational, Industrial, and Environmental Medicine in Medicine (primary appointment)
Professor of Occupational Therapy
BA Cornell University 1982
M PH University of Washington 1993
MD Washington Univ in St. Louis 1986

Elyse Aufman Everett, MA, MD
Instructor in Medicine (primary appointment)
MA University of Pittsburgh 2011
MD Washington Univ in St. Louis 2015
BS University of Pittsburgh 2009

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)
BS University of Illinois 1985
MD Northwestern University 1989

Elisa Fabbri, PHD, MD
Adjunct Assistant Professor of Medicine (primary appointment)
PHD La Sapienza University 2006
MD La Sapienza University 1998

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

Sarah Schwarz Farabi
Assistant Professor of Clinical Medicine (primary appointment)

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

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

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

**Mark A Fiala, MSW**  
Instructor in Medicine (primary appointment)  
MSW Washington Univ in St. Louis 2017  
BS Southeast Missouri St Univers 2006

**Kathryn Lynn Filson, MD**  
Instructor in Medicine (primary appointment)  
MD Southern Illinois University 2015

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

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

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

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

**James M Fleckenstein, MD**  
Professor of Medicine (primary appointment)  
Professor of Molecular Microbiology  
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

**Jaime Eduardo Flores-Ruiz, MD**  
Instructor in Medicine (primary appointment)  
MD University of Puerto Rico 2015

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

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

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

**Nickole A Forget, MD**  
Assistant Professor of Medicine (primary appointment)  
MD Saint Louis University 1996

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

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

**Antonietta Franco, MS, PHD**  
Instructor in Medicine (primary appointment)  
MS University of Naples 2012  
PHD University of Naples 2016  
BS University of Naples 2010

**Victoria J Fraser, MD**  
Adolphus Busch Professor of Medicine (primary appointment)  
Head of the Department of Medicine  
MD University of MO Columbia 1983  
BS William Woods College 1978

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

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

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

**Stephen Fuest, MD**  
Instructor in Medicine (primary appointment)  
Instructor in Medicine  
MD Washington Univ in St. Louis 2017  
BS Niagara University 2013

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

**Steven Daniel Funk, PHD**  
Instructor in Medicine (primary appointment)  
PHD Louisiana St University 2013
BS University of Louisiana 2005

Suzanne Furesz
Instructor in Clinical Medicine (primary appointment)

G

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

Joseph Lee Galkowski, DOST
Instructor in Emergency Medicine (primary appointment)
BS University of MO Columbia 1990
DOST Kansas Cty Univ Med/Bioscience 1994

Sumanth Gandra, MD, MA
Assistant Professor of Medicine (primary appointment)
MD University of Chicago 2010
BA Osmania Medical College 2014
MA Eastern Kentucky University 2007

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)
MBA University of MO St Louis 1998
MD University of Illinois 1990
BA Carleton College 1985

Mauricio Garcia Saenz De Sicilia, MD
Associate Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
MD UN Nacional Autonoma De Mex 2004

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

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

Vered Gazit, MS, PHD
Instructor in Medicine (primary appointment)
MS Tel Aviv University 1999
PHD School Not Listed 2000
BS Tel Aviv University 1991

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

Taylor Elizabeth Geisman, MD, BS1
Instructor in Medicine (primary appointment)
MD Washington Univ in St. Louis 2017
BS1 University of Dayton 2013

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

Natalia Genere, MD
Instructor in Medicine (primary appointment)
BS University of Michigan 2009
MD University of Minnesota 2020

Elvin Hsing Geng, MD, MPH
Professor of Medicine (primary appointment)
MD Columbia University 2002
MPH Columbia University 2002
BA University of CA Berkeley 1996

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

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

Bria D Giacomino, MD
Assistant Professor of Medicine (primary appointment)
MD Midwestern University 2012

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

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

Gardar T Gislason
Adjunct Instructor in Medicine (primary appointment)

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

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

Tracey L Godbold, MD
Instructor in Medicine (primary appointment)
BA Wellesley College 2007
MD Washington Univ in St. Louis 2017

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)
BA Harvard University 1973
MD University of Maryland 1977

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

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

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

Daniel Arthur Goldstein
Adjunct Professor of Emergency Medicine in Medicine (primary appointment)

Felicia Ismay Gomez, PHD
Instructor in Medicine (primary appointment)
PHD George Washington University 2015

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)
BS University of Nebraska 1970
MD Duke University 1974

David Alan Goran, MD
Assistant Professor of Medicine (primary appointment)
BA University of Michigan 1972
MD Washington Univ in St. Louis 1976

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

Ramamswamy 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
BS Iowa State University 1971
PHD Univ of Wisconsin Madison 1975

Alfred Greco, MD
Assistant Professor of Medicine (primary appointment)
BS University of MO St Louis 1971
MD University of MO Columbia 1975

Aaron Greenspan
Instructor in Clinical Medicine (primary appointment)

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

Anas Khalifa Gremida, MD
Assistant Professor of Medicine (primary appointment)
MD Zawia University School of Med 2008

Patrick Grierson, MD, PHD
Instructor in Medicine (primary appointment)
MD Ohio State University 2014
BS University of Wisconsin-Madiso 2015
PHD Ohio State University 2012

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

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

Scott D. Groesch, MD
Assistant Professor of 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)
BA Illinois Wesleyan University 1984
MD University of Illinois 1988

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

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

Lucas Bohao Gu, DOST
Instructor in Medicine (primary appointment)
BS University of Wisconsin-Madiso 2011
DOST Des Moines University 2017

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

Vjyanthanath 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)
DOST Oklahoma St University 1988
BS University of Tulsa 1981

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

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

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

Ramsey R Hachem, MD, MD1, BA1
Professor of Medicine (primary appointment)
BA Southern Methodist University 1992
MD University of Texas Southwest 1997
MD1 University of Texas Southwest 1997
BA1 Southern Methodist University 1992

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

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

Yasir A Hamad, MD
Assistant Professor of Medicine (primary appointment)
MD University of Juba 2004

Lana Hamieh, MD
Instructor in Medicine (primary appointment)
MD American University of Beirut 2020
BS American University of Beirut 2009

Stephanie M Hammer, MD
Instructor in Clinical Medicine (primary appointment)
BA Smith College 1990
MD Chicago St University 1995

Janice L Hanson, PHD
Professor of Medicine (primary appointment)
PHD State University of Michigan 1984

Zahirul Haque
Instructor in Clinical Medicine (primary appointment)

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

Lydia-Ann Lynell Harris, PHD
Adjunct Assistant Professor of Medicine (primary appointment)
PHD State University of New York 2011
Justin C Hartupee, MD, PHD
Assistant Professor of Medicine (primary appointment)
MD Case Western Reserve Univ 2010
PHD Case Western Reserve Univ 2008

Rim Hasan, MD
Instructor in Medicine (primary appointment)
MD Damascus University, School of 2011

Syed Hasan, MBBS
Instructor in Medicine (primary appointment)
MBBS Sindh Medical College 2013

Jeffrey A Haspel, MD, PHD
Assistant Professor of Medicine (primary appointment)
MD New York U. School of Medicine 2003
PHD New York U. School of Medicine 2001
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)
BA University of Louisville 1957
MD University of Louisville 1961

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

Katherine Therese Hemingway, MD
Instructor in Medicine (primary appointment)
BA Univ of Massachusetts Amherst 2007
MD Florida Atlantic University 2017

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

Rochelle Rene’ Henderson, PHD
Adjunct Assistant Professor of Medicine (primary appointment)
PHD University of Missouri 2010

Michael Hendrix, MD
Instructor in Medicine (primary appointment)
MD University of AR Med Sciences 2015
BS Northern Arizona University 2010

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
BA Truman State University 1992
M ENG Univ of Southern Mississippi 1993

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

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

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

Virginia M Herrmann, MD
Professor of Medicine (primary appointment)
Professor of Surgery (General Surgery)
MD Saint Louis University 1974

Karin Hickey, MD
Assistant Professor of Medicine (primary appointment)
MD Lulu Hatleganu U of Med 2007

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

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

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

Matifadza G Hlatshwayo, BS1, MD, M PH
Instructor in Medicine (primary appointment)
BS Drury College 2005
MD Case Western Reserve Univ 2012
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)
BS Univ of Wisconsin Madison 1994
MD Washington Univ in St. Louis 1999

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

Timothy Richard Holden, MA, MD
Assistant Professor of Medicine (primary appointment)
MA University of Wisconsin 2013
BS Northwestern University 2006
MD University of Minnesota 2010

Melissa Louise Hollie
Instructor in Clinical Medicine (primary appointment)

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)
MD Washington Univ in St. Louis 1982
BA Clark University 1975

Ian Kerst Hornstra, PhD, MD
Associate Professor of Medicine (Dermatology) (primary appointment)
BA University of MO Kansas City 1985
PHD University of Florida 1993
MD University of MO Kansas City 1986
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
BS Nanjing University 1999
MS Edinburgh University 2000

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

Jacqueline Howard, UNKNOWN
Instructor in Clinical Medicine (primary appointment)
UNKNOWN School Not Listed 1995

David Thomas Howell
Instructor in Clinical Medicine (primary appointment)

Thomas W Hoyt, MD
Instructor in Medicine (primary appointment)
BA MO State U (formerly SW MO St) 2009
MD University of Iowa 2016

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

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

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

Kevin Hsueh, MD, BS1
Assistant Professor of Medicine (primary appointment)
BS Williams College 2003
MD New York University 2008
BS1 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
Assistant Professor of 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  
Associate Professor of Medicine (primary appointment)  
BA Washington Univ in St. Louis 1995  
MD Loyola University Chicago 2000

Jing Hughes, MD  
Assistant Professor of Medicine (primary appointment)  
Assistant Professor of Cell Biology and Physiology  
BS Stanford University 2002  
MD University of Pennsylvania 2009

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

Benjamin Duane Humphreys, MD, PHD, AB  
Professor of Medicine (primary appointment)  
Professor of Developmental Biology  
MD Case Western Reserve Univ 1998  
PHD Case Western Reserve Univ 2000  
AB Harvard University 1991

Eva A Hurst, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 2002

Mark Albert Hurt, MD  
Instructor in Clinical Medicine (Dermatology) (primary appointment)  
BS Southeast Missouri St Universities 1978  
MD University of Missouri 1982

Mustafa H Husaini, MD  
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)  
MD Michigan State University 2014  
BA Grand Valley St University 2010

Elaine Joyce Hutchison, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
BS Cornell College 2011  
MD University of Arizona 2016

Richard G. Ihnat, MD  
Instructor in Clinical Medicine (primary appointment)  
BS Rutgers University 1987  
MD Yale University 1991

Belinda K. Ireland, MD  
Adjunct Assistant Professor of Medicine (primary appointment)  
MD University of MO Columbia 1976

Eva Susanne Istvan, PHD  
Associate Professor of Medicine (primary appointment)  
HHMI Specialist II  
BS University of Houston 1993  
PHD University of Texas Southwest 2000

Carolyn M Jachna, MD  
Assistant Professor of Medicine (primary appointment)  
MD Northwestern University Med 1998  
BS Washington Univ in St. Louis 1993

Daryl Jacobs, ME, MD  
Instructor in Clinical Medicine (primary appointment)  
BS Washington Univ in St. Louis 1977  
ME Carnegie Mellon University 1979  
MD Washington Univ in St. Louis 1983

Myron H Jacobs, MD  
Instructor in Clinical Medicine (primary appointment)  
BA Vanderbilt University 1965  
MD Louisiana St Univ Hlth Sci 1969

Steven Jacobson, MD  
Instructor in Clinical Medicine (primary appointment)  
BS Rhodes College 1981  
MD Saint Louis University 1985

Meagan A. Jacoby, PHD, MD  
Assistant Professor of Medicine (primary appointment)  
PHD Washington Univ in St. Louis 2005  
MD Washington Univ in St. Louis 2005  
BS Johns Hopkins University 1996

Maria Miriam Jacome Sosa, PHD  
Instructor in Medicine (primary appointment)  
PHD University of Alberta 2013

Jordan M Jacquez, MD  
Instructor in Medicine (primary appointment)  
BA Duke University 2013  
MD Washington Univ in St. Louis 2017

Nhila Jagadeesan, MD  
Instructor in Medicine (primary appointment)  
BS Indiana University Purdue 2011  
BA Indiana University Purdue 2011  
MD Washington Univ in St. Louis 2015

Poonam Jain, MD, JD  
Assistant Professor of Medicine (primary appointment)  
MD University of Iowa 1988  
BS University of Iowa 1984  
JD Saint Louis University 2004

Sanjay Jain, MD, PHD
Professor of Medicine (primary appointment)
Professor of Pathology and Immunology
BA University of California 1990
MD Northwestern University 1999
PHD Northwestern University 1998

Sudhir Kumar Jain, MBBS
Associate Professor of Medicine (primary appointment)
MBBS Maulana Azad Medical College 1986

George Jarad, MD
Associate Professor of Medicine (primary appointment)
MD Damascus U. Medical School 1993

Sina Jasim, M PH, MBCHB
Assistant Professor of Medicine (primary appointment)
M PH Saint Louis University 2008
MBCHB University of Baghdad 2001

Daniel Ragin Jasper, MD
Instructor in Clinical Medicine (primary appointment)
BA University of Texas Austin 1990
MD Saint Louis University 1994

Anuja Java, MD
Assistant Professor of Medicine (primary appointment)
MD Government Medical College 2002

Ali Javaheri, MD, PHD
Assistant Professor of Medicine (primary appointment)
BS University of Chicago 2000
MD University of Chicago 2008
PHD University of Chicago 2006
BA University of Chicago 2000

Donna Beth Jeffe, MA, PHD
Professor of Medicine (primary appointment)
MA Washington Univ in St. Louis 1990
BA Washington Univ in St. Louis 1972
PHD Washington Univ in St. Louis 1993

Christopher M. Jenkins, PHD
Assistant Professor of Medicine (primary appointment)
PHD Vanderbilt University 1997
BS Michigan State University 1991

Benjamin C. Jennings, PHD
Instructor in Medicine (primary appointment)
PHD Washington Univ in St. Louis 2018
BS Univ of Wisconsin Madison 2004

Maya Jerath, PHD, MD, MS
Professor of Medicine (primary appointment)
PHD University of Texas Austin 1992
MD University of Vermont 2000
MS University of Texas Austin 1990

Joyce Ji, MD
Instructor in Medicine (primary appointment)
MD Washington Univ in St. Louis 2016

Xuntian Jiang, PHD
Assistant Professor of Medicine (primary appointment)
PHD China Pharmaceutical Univ 1992

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

Tanner Michael Johannes, PHD, MD
Assistant Professor of Medicine (primary appointment)
BS University of Saint Thomas 2002
PHD University of Minnesota 2010
MD University of Minnesota 2012

Eric Keith Johnson, MD
Assistant Professor of Medicine (primary appointment)
MD Univ of Wisconsin Madison 1999

William F Johnson
Adjunct Instructor in Medicine (primary appointment)

Heather Jones, MD
Assistant Professor of Medicine (Dermatology) (primary appointment)
BS Michigan State University 2007
MD University of Texas Galveston 2011

Allison Jordan, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD University of Texas Southwest 2008

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

Barbara Jost, MD, MS
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 1997
BS University of Missouri 1993
MS Northwestern University 1995

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

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

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

Lalit Chandra Kalvala, MBBS
Instructor in Medicine (primary appointment)
MBBS Kakatiya Medical College 2016

Sona Sharad Kamat
Instructor in Clinical Medicine (primary appointment)

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

Patricia F Kao, MD, BE, MS2
Associate Professor of Medicine (primary appointment)
MD Case Western Reserve Univ 2001
BE Princeton University 1994
MS2 Ohio State University 1997

Divya Kapoor, MD
Assistant Professor of Medicine (primary appointment)
MD University of Washington 2002

Robert S Karsh, MD
Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1952
BA Washington Univ in St. Louis 1951

Casey Duncan Saul Katern Dahl, PHD
Instructor in Medicine (primary appointment)
BS University of Minnesota 2008
PHD University of Minnesota 2015

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

David A Katzman, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 1991
BA Brown University 1986

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

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

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

Elizabeth Jane Keath, PHD
Associate Professor of Medicine (primary appointment)
PHD Saint Louis University 1985
BA University of MO St Louis 1978

BA University of MO St Louis 1978

Dalies Kedainis, MD
Instructor in Clinical Medicine (primary appointment)
MD Kaunas University of Medicine 1998

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

Jesse Wade Keller, MD
Assistant Professor of Medicine (primary appointment)
BS University of Tulsa 2005
MD Johns Hopkns University Medc 2009

Daniel P Kelly, MD
Adjunct Professor of Medicine (primary appointment)
BS University of Illinois 1978
MD University of Illinois 1982

Peggy Lynn Kendall, MD
Virginia Minnich Distinguished Professor of Medicine (primary appointment)
Professor of Pathology and Immunology
MD University of Texas Dallas 2019

Charlotte J Kennedy, MD, PHD
Assistant Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1992
BA Agnes Scott College 1984
PHD Washington Univ in St. Louis 1992

Martin Hurley Kerrigan, MD
Assistant Professor of Medicine (primary appointment)
BS Saint Josephys University 2001
MD Jefferson Medical College 2005

Ahmed Sultan Khan
Adjunct Instructor in Medicine (primary appointment)

Aava Khatiwada, MD
Instructor in Medicine (primary appointment)

BA Indiana State University 2013
MD Indiana State University 2017

Charbel Chafic Khoury, MD
Assistant Professor of Medicine (primary appointment)
MD American University of Beirut 2008
BS American University of Beirut 2004

Daniel Jason Kichura, MD
Instructor in Medicine (primary appointment)
BA Indiana University 2008
MD Israel Institute of Technology 2012

George Kichura, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 1993

Mary Kiehl, MD, AS
Assistant Professor of Clinical Medicine (primary appointment)
Kenneth Richard Killian, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Saint Louis University 1984  
BS Saint Louis University 1980

Charles John Kilo, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 1991  
BA University of Kansas 1987

Alfred Kim, PhD, MD  
Assistant Professor of Medicine (primary appointment)  
Assistant Professor of Pathology and Immunology  
PHD Drexel University 2005  
MD Drexel University 2005  
BA University of Pennsylvania 2004

Brian Kim, MD  
Associate Professor of Medicine (Dermatology) (primary appointment)  
Associate Professor of Anesthesiology  
Associate Professor of Pathology and Immunology  
MD University of Washington 2007  
BS Haverford College 2001

Miriam Yunhee Kim, MD  
Assistant Professor of Medicine (primary appointment)  
BS Yonsei University 2004  
MD Seoul National University 2008

Helen Young Kim-James, MD  
Instructor in Clinical Medicine (Dermatology) (primary appointment)  
BA Southern Methodist University 1997  
MD Washington Univ in St. Louis 2001

Rosa Anne Kincaid, MD  
Instructor in Clinical Medicine (primary appointment)  
BA City College 1970  
MD Temple University 1984

Donald Kevin King, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
BA Fairfield University 1966  
MD Johns Hopkins University Medc 1970

Kevin Patrick King, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Saint Louis University 2006

Tinna P King  
Instructor in Clinical Medicine (primary appointment)  
BA University of Missouri 1988

Erik Paul Kirk, MS, PHD  
Adjunct Assistant Professor of Medicine (primary appointment)  
MS University of Kansas 2001  
PHD University of Kansas 2004  
BS Drury College 1999

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

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

Michael K Kle bert, BN, PhD, MSN  
Instructor in Medicine (primary appointment)  
BN Southern Illinois University 1981  
PHD University of MO St Louis 2008  
BA Southern Illinois University 1979  
MSN University of Texas Austin 2000

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

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

Samuel Klein, MS, MD  
Danforth Professor of Medicine (primary appointment)  
Professor of Cell Biology and Physiology  
MS Mass Inst of Technology (MIT) 1984  
BA Brandeis University 1974  
MD Temple University 1979

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

Paula J Knapp-Baker  
Instructor in Clinical Medicine (primary appointment)  
Eric Knoche, MD  
Assistant Professor of Medicine (primary appointment)  
BS Davidson College 2001  
MD Washington Univ in St. Louis 2006

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

Jeffrey Robert Koenitzer, MD
Instructor in Medicine (Pending Dean's Approval) (primary appointment)
MD University of Pittsburgh 2014
Adam C Koertner
Instructor in Clinical Emergency Medicine in Medicine (primary appointment)
MD University of Pittsburgh 2014
Adam C Koertner
Instructor in Clinical Emergency Medicine in Medicine (primary appointment)
Ismail Kola, UNKNOWN, PHD
Adjunct Professor of Medicine (primary appointment)
UNKNOWN Rhodes College 1982
BS Rhodes College 1982
PHD School Not Listed 1985
Marin H Kollef, MD
Professor of Medicine (primary appointment)
BS US Military Academy 1979
MD University of Rochester 1983
Hermann M Koller, MD
Instructor in Medicine (primary appointment)
BS Stanford University 1974
MD Washington Univ in St. Louis 1978
Sri Devi Kolli, MBBS
Instructor in Clinical Medicine (primary appointment)
MBBS Guntur Medical College 1989
Mary E. Koly, MD
Instructor in Clinical Medicine (primary appointment)
BA University of MO Kansas City 1995
MD University of MO Kansas City 1995
Ajitha Kommalapati, MD
Instructor in Medicine (primary appointment)
MD Baylor College of Medicine 2016
BS University of Texas Austin 2012
Kevin L Konzen, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD University of Illinois 1984
BA University of Notre Dame 1980
Robert G Kopitsky, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD Duke University 1982
BS Emory University 1978
Kevin Marc Korenblat, MD
Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 1996
Phillip E Korenblat, MD
Professor of Clinical Medicine (primary appointment)
MD University of Arkansas 1960
BA University of Arkansas 1957
Stuart A Kornfeld, MD
David C and Betty Farrell Professor of Medicine (primary appointment)
Professor of Biochemistry and Molecular Biophysics
MD Washington Univ in St. Louis 1962
BA Dartmouth College 1958
Alex H Kosloff, MD
Instructor in Clinical Medicine (primary appointment)
BS Washington Univ in St. Louis 1975
MD Saint Louis University 1980
Attila Kovacs, MD
Professor of Medicine (primary appointment)
MD Semmelweis University of Med 1985
BS School Not Listed 1981
Sandor J Kovacs, PHD, MD, MS
Professor of Medicine (primary appointment)
Professor of Biomedical Engineering
Professor of Cell Biology and Physiology
PHD California Institute Technolo 1977
MD University of Miami 1979
BS Cornell University 1969
MS California Institute Technolo 1972
Mark S Krasnoff, MD
Instructor in Clinical Medicine (primary appointment)
BA Amherst College 1987
MD Johns Hopkins University Medic 1991
James Gerard Krings, MD
Assistant Professor of Medicine (primary appointment)
MD Stanford University 2014
BA University of Notre Dame 2009
BS University of Notre Dame 2011
Ronald J Krone, MD
Professor of Medicine (primary appointment)
John E Simon Scholar in Medicine
MD University of Chicago 1966
BS University of Michigan 1962
Elaine Susan Krul, PHD
Adjunct Associate Professor of Medicine (primary appointment)
BA McGill University 1977
PHD McGill University 1982
Thomas Kuciejczyk-Kernan, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 1986
BS University of Illinois 1982
Ralph F Kuhlman, MD
Assistant Professor of Clinical Medicine (primary appointment)
MD University of Illinois 1964
Frederick Matthew Kuhlmann, MD
Assistant Professor of Medicine (primary appointment)
MD Emory University 2002
BS Emory University 1998
Anthony Kulczycki Jr, MD
Devesha Hrishikesh Kulkarni, PHD
Instructor in Medicine (primary appointment)
BS University of Pune 2006
PHD Technische U Braunschweig 2013

Hrishikesh Satish Kulkarni, MBBS
Assistant Professor of Medicine (primary appointment)
Assistant Professor of Molecular Microbiology
MBBS Seth G.S. Medical College 2009

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

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

Vasanthan Kuppuswamy, MD
Instructor in Medicine (primary appointment)
MD Medical University of Sth Car 2017
BA Vanderbilt University 2012

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

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

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

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

L

Paul B L’Ecuyer, MD

Instructor in Clinical Medicine (primary appointment)
MD University of MO Columbia 1989

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

Brian Joseph Laidlaw, PHD, MS
Assistant Professor of Medicine (primary appointment)
Associate Professor Of Pathology and Immunology
BA University of Pennsylvania 2020
PHD Yale University 2020
MS University of Pennsylvania 2020

Randy Olivier Laine, MDI, PHD, MA, MD
Instructor in Medicine (primary appointment)
BA University of Paris 2004
MDI Aquinas Institute of Theology 2006
PHD University of Orléans 2013
MA University of Paris 2008
MD Washington Univ in St. Louis 2017

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

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

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

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

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

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

Kory J. Lavine, PHD, MD
Associate Professor of Medicine (primary appointment)
Associate Professor of Developmental Biology
Associate Professor of Pathology and Immunology
PHD Washington Univ in St. Louis 2008
BS University of Rochester 2001
MD Washington Univ in St. Louis 2008

Steven Jay Lavine, MD
Professor of Medicine (primary appointment)
BA Temple University 1972
MD Temple University 1976

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

Eileen May Lee, MD
Assistant Professor of Medicine (primary appointment)
MD University of Iowa 2006
BA University of Iowa 2002

Kim Lynnette Lee, MD
Instructor in Clinical Medicine (primary appointment)
MD Saint Louis University 1983
BS Washington Univ in St. Louis 1979

Wang Sik Lee, PHD, MA
Assistant Professor of Medicine (primary appointment)
PHD Korea University Medical Coll 1990
BA Korea University Medical Coll 1978
MA Korea University Medical Coll 1982

Robert B Lehman, MD
Instructor in Clinical Medicine (primary appointment)
MD Texas Tech University 1982
BA Texas Tech University 1977

Daniel John Lenihan, BA1, MD
Professor of Medicine (primary appointment)
BA1 University of Tennessee 1984
BA University of Tennessee 1984
MD University of Tenn Memphis 1988

Deborah J. Lenschow, MD, PHD
Professor of Medicine (primary appointment)
Professor of Molecular Microbiology
Professor of Pathology and Immunology
MD University of Chicago 1998
PHD University of Chicago 1995
BA Wittenberg University 1990

Daisy W Leung, PHD
Associate Professor of Medicine (primary appointment)

Associate Professor of Biochemistry and Molecular Biophysics
Associate Professor of Pathology and Immunology
PHD University of Texas Southwest 2005
BS Amherst College 1997

Marc Stephen Levin, MD
Professor of Medicine (primary appointment)
MD Columbia University 1981
BS Mass Inst of Technology (MIT) 1977

Timothy J Ley, MD
Lewis T and Rosalind B Apple Professor of Medicine (primary appointment)
Professor of Genetics
BA Drake University 1974
MD Washington Univ in St. Louis 1978

Ellen Li, MD, PHD
Adjunct Professor of Medicine (primary appointment)
BS Stanford University 1974
MD Washington Univ in St. Louis 1980
PHD Washington Univ in St. Louis 1980

Han Li, MD
Instructor in Medicine (primary appointment)
MD Washington Univ in St. Louis 2016
BS University of Michigan 2011

Kevin Kai Li, MD
Instructor in Medicine (primary appointment)
MD Washington Univ in St. Louis 2017
BS Mass Inst of Technology (MIT) 2013

Li Li, MD, PHD
Instructor in Clinical Medicine (primary appointment)
MD Shanghai Medical University 1988
PHD Loyola University Chicago 1998

Shunqiang Li, PHD
Assistant Professor of Medicine (primary appointment)
PHD Chinese Academy of Med Science 1999

Tingting Li, MD
Assistant Professor of Medicine (primary appointment)
MD State Univ of NY Buffalo 1999

Min Lian, MD, M PH, PHD
Assistant Professor of Medicine (primary appointment)
MD Southeast U Medical School 1995
M PH Fudan University 1999
PHD Texas Tech University 2006

Stephen Yuan-Tung Liang, BA1, MD
Associate Professor of Medicine (primary appointment)
BA1 Cornell University 1998
BA Cornell University 1998
MD University of Maryland 2004

Charles H Lieu, MD
Instructor in Clinical Medicine (primary appointment)
Michael Yun Lin, MD  
Associate Professor of Medicine (primary appointment)  
MD University of Iowa 1994  
BA Harvard University 1990

Kathryn Jesseca Lindley, MD  
Associate Professor of Medicine (primary appointment)  
MD Emory University 2007  
BS University of Illinois 2003

Brian Richard Lindman, MD, MA  
Adjunct Associate Professor of Medicine (primary appointment)  
MD Vanderbilt University 2003  
BS Duke University 1997  
MA Reformed Theological Seminary 2001

Daniel C Link, MD  
Alan A and Edith L Wolff Distinguished Professor of Medicine (primary appointment)  
Professor of Pathology and Immunology  
BS Univ of Wisconsin Milwaukee 1981  
MD Univ of Wisconsin Milwaukee 1985

Michael Brayer Lippmann, MD  
Professor of Medicine (primary appointment)  
MD State University of New York 1977  
BA State University of New York 1973

Mauricio Lisker-Melman, MD  
Professor of Medicine (primary appointment)  
MD National Autonomous U of Mex 1980

Mary Kathryn Liszewski  
Assistant Professor of Medicine (primary appointment)  
BA University of MO St Louis 1971

Patricia Elizabeth Litkowski, MD  
Instructor in Medicine (primary appointment)  
MD Washington Univ in St. Louis 2013

Adam Daniel Littich, MD  
Assistant Professor of Medicine (primary appointment)  
MD Saint Louis University 2009

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

Jason Liu, MD  
Instructor in Medicine (primary appointment)  
BA University of Utah 2013  
MD Medical College of Wisconsin 2017

Jianmei Liu, MS, MD  
Instructor in Clinical Medicine (primary appointment)  
MS Shanghai Medical University 1987  
MD Shanghai Medical University 1984

Xinping Liu, MS, PhD  
Instructor in Medicine (primary appointment)  
MS Southeast Missouri St Univers 1999  
PHD Washington Univ in St. Louis 2005  
BS School Not Listed 1986

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

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

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

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

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

Julia Lopez, MSW, PhD, MPH  
Instructor in Medicine (primary appointment)  
BS Saint Louis University 2009  
MSW Saint Louis University 2010  
BA Saint Louis University 2009  
PHD Saint Louis University 2017  
MPH Saint Louis University 2013

Herbert Lubowitz, MD  
Associate Professor of Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 1958
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John T. Milliken Department of Medicine (02/28/21)

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

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

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

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

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

Christopher Raymond Lynch
Instructor in Clinical Medicine (primary appointment)

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

Maureen Danielle Lyons, MD
Assistant Professor of Medicine (primary appointment)
MD University of Chicago 2012

Patrick G. Lyons Jr, MD
Instructor in Medicine (primary appointment)
BA University of Notre Dame 2008
MD University of Chicago 2012

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

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

Hongming Ma, PhD, MS
Instructor in Medicine (primary appointment)

PHD Ocean University of China, Qin 2004
BA Qufu Normal University 1993
MS Fudan University 1996

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

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

Kelly Mackenzie Macarthur, MD
Assistant Professor of Medicine (Dermatology) (primary appointment)
MD University of Missouri 2013
BA Washington Univ in St. Louis 2007

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

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

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

Leonard B Maggi Jr, PhD, BA1, MSCI
Assistant Professor of Medicine (primary appointment)
PHD Saint Louis University 2001
BA1 Cornell College 1995
MSCI Washington Univ in St. Louis 2016
BA Cornell College 1995

Jambunathan Mahadevan
Instructor in Clinical Medicine (primary appointment)

Christopher A Maher, PHD
Associate Professor of Medicine (primary appointment)
Associate Professor of Biomedical Engineering
PHD Stony Brook School of Medicine 2006

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

Mohamed Mahjoub, PHD
Associate Professor of Medicine (primary appointment)
Associate Professor of Cell Biology and Physiology
Robert John Mahoney, MD
Associate Professor of Medicine (primary appointment)
BA Princeton University 1993
MD Washington Univ in St. Louis 1997

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

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

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

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

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

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

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

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

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

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

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

Ann G Martin, MD
Associate Professor of Medicine (Dermatology) (primary appointment)
BS University of Notre Dame 1977
MD Case Western Reserve Univ 1981

Thomas F Martin, MD
Associate Professor of Medicine (primary appointment)
BS Saint Louis University 1981
MD Saint Louis University 1985

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

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

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

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

Kara H Mayes
Instructor in Clinical Medicine (primary appointment)
Gabriel Mbalaviele, MA, PHD  
Professor of Medicine (primary appointment)  
MA School Not Listed 1987  
PHD University of Paris 1992  

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

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

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

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

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

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

Rachel Kathryn McDonald, MD  
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)  
MD University of Arkansas 2012  
BS University of Arkansas 2008

Peter Joseph McDonnell, MD  
Instructor in Medicine (primary appointment)  
BS Seattle University 2012  
MD University of Michigan 2016

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

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)
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)  
MD University of Miami 1977  
BA University of Missouri 1972

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

James Patrick Mendoza, MS, MD  
Instructor in Medicine (primary appointment)  
MS Boston University 2012  
BS University of Virginia 2009  
MD Commonwealth College 2016

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

Massini Alexander Merzkani, MD  
Assistant Professor of Medicine (primary appointment)  
MD Univ. Nacional Auto deHonduras 2011

Manasa M Metireddy, MD  
Assistant Professor of Medicine (primary appointment)  
MD Sri Venkateswara University 2006

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

Andrew Philip Michelson, MD  
Assistant Professor of Medicine (primary appointment)  
MD Case Western Reserve Univ 2013  
BS Case Western Reserve Univ 2007

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

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

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)  
BS Yale University 1994  
MD Harvard University 2000

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  
BS University of California 1991  
PHD University of California 1996

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

Jaspur J Min, MD  
Instructor in Medicine (primary appointment)  
BA Washington Univ in St. Louis 2011  
MD Washington Univ in St. Louis 2016

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 Molecular Microbiology  
Assistant Professor of Pathology and Immunology  
BS Brigham Young University 2002
PHD University of Oklahoma 2008  
MD University of Oklahoma 2010

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

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

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

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

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

**Aaloke Mody, MD**  
Assistant Professor of Medicine (primary appointment)  
BA University of CA Berkeley 2006  
MD Duke University 2012  
BA University of CA Berkeley 2006

**Kahee Agid Mohammed, MD, MPE**  
Instructor in Medicine (primary appointment)  
MD University of Duhok 2010  
MPE Saint Louis University 2015

**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

**Hector D Molina-Vicenty, MD**  
Associate Professor of Medicine (primary appointment)  
Associate Professor of Pathology and Immunology  
BS University of Puerto Rico 1982  
MD University of Puerto Rico 1985

**Steven M Mondschein, MD**  
Instructor in Medicine (primary appointment)  
BA Grinnell College 1981  
MD Wright State University 1988

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

**Austin F Montgomery, MD**  
Instructor in Clinical Medicine (primary appointment)  
BA Washington Univ in St. Louis 1950

**BS University of Missouri 1952**  
**MD University of Pittsburgh 1954**

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

**Nathan Moore, MD**  
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)  
Jonas Daniel Moreno, PHD, MD  
Instructor in Medicine (primary appointment)  
BS Univ of Massachusetts Amherst 2006  
PHD Weill Cornell Med 2013  
MD Weill Cornell Med 2013

**Zachary Andrew Morgan, MD**  
Instructor in Medicine (primary appointment)  
MD Univ of TN - Health Sci Center 2015

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

**Donald G Morris, MS, MD**  
Instructor in Clinical Medicine (primary appointment)  
MS Saint Louis University 1989  
MD University of Missouri 1993  
BA Benedictine College 1987

**Aubrey R Morrison, MBBS**  
Professor of Medicine (primary appointment)  
Professor of Developmental Biology  
MBBS University of London 1970

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

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

**Brian D Muegge, PHD, MD**  
Instructor in Medicine (primary appointment)  
BA Princeton University 2001  
PHD Washington Univ in St. Louis 2013  
MD Washington Univ in St. Louis 2013

**Faquir Muhammud**  
Instructor in Clinical Medicine (primary appointment)  
Daniel Kast Mullady, MD
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

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

Junaid Munshi
Instructor in Clinical Medicine (primary appointment)

Haris Farooq Murad, MD
Assistant Professor of Medicine (primary appointment)
MD Aga Khan University 2012

Ian Campbell Murphy, MD
Instructor in Medicine (primary appointment)
MD Tufts University 2017
BA Williams College 2011

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

Tahsin Mustaque, MBBS
Instructor in Medicine (primary appointment)
MBBS Dhaka University 2012

Umadevi Muthyala
Instructor in Clinical Medicine (primary appointment)

Anubha Mutneja, MBBS
Assistant Professor of Medicine (primary appointment)
MBBS Maulana Azad Medical College 2009

Muithi Mwanthi, MD, BS1, PHD
Assistant Professor of Medicine (Dermatology) (primary appointment)
MD Indiana State University 2014
BS1 Clearwater Christian College 2004
PHD Indiana State University 2014

Nicola Napoli
Adjunct Research Assistant Professor of Medicine (primary appointment)

Humaira K Naseer, MD
Instructor in Medicine (primary appointment)
MD Dow Medical College Karachi 1986

Arjun Natarajan, MBBS, MBBS, MBBS, MBBS, MBBS
Instructor in Medicine (primary appointment)
MBBS Kasturba Medical College 2015
MBBS Kasturba Medical College 2015
MBBS Kasturba Medical College 2015
MBBS Kasturba Medical College 2015
MBBS Kasturba Medical College 2015

Sameera Natarajan, MBBS
Instructor in Medicine (primary appointment)
MBBS Kasturba Medical College 2016

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

Burton M Needles, MD
Instructor in Clinical Medicine (primary appointment)
MD Loyola University Chicago 1974
BS City College 1970

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

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

Rodney D Newberry, MD
Professor of Medicine (primary appointment)
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)
MD University of Virginia 2001
BS Mary Washington College 1997

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

Devika Nagaraj
Instructor in Clinical Medicine (primary appointment)

Sharmila Nair, PHD, MS
Instructor in Medicine (primary appointment)
PHD Technische U Braunschweig 2014
MS University of Bristol 2012

Jyotirmaya Nanda
Instructor in Clinical Medicine (primary appointment)
MD1 Wayne State University 1993

Jonas Gottfried Noe, MD
Instructor in Clinical Medicine (primary appointment)
MD Technische Universität Darmstadt 2014

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

Tracy Wynette Norfleet, MD
Instructor in Clinical Medicine (primary appointment)
MD Louisiana State University 2002
BS Xavier University Louisiana 1998

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

Muhammad Akram Nyazee, UNKNOWN1, UNKNOWN
Instructor in Clinical Medicine (primary appointment)
UNKNOWN Nishtar Medical College Multa 1974
UNKNOWN Govt College Sarhodha 1968

Frank Joseph O’Brien, MBBCH
Assistant Professor of Medicine (primary appointment)
MBBCH University College Cork 2006

G Patrick O’Donnell, MD
Instructor in Clinical Medicine (primary appointment)
BA University of Kansas 1972
MD School Not Listed 1977

Jane A O’Halloran, MBBCH
Assistant Professor of Medicine (primary appointment)
MBBCH National University of Ireland 2006

Julie O’Neal, PhD
Assistant Professor of Medicine (primary appointment)
PHD Washington University 2009
BS University of Missouri Columbia 1999

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

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

Karolyn Ann Oetjen, MD, PhD
Instructor in Medicine (primary appointment)
MD University of Michigan 2011
PHD University of Michigan 2011
BS Univ of Wisconsin Madison 2003

Stephen T. Oh, PhD, MD

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

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

Debra Parker Oliver, PHD
Professor of Medicine (Pending Executive Faculty Approval)
PHD University of Missouri 2020

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

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

Robert F Onder Jr, MD
Assistant Professor of Clinical Medicine (primary appointment)
BA Washington University 1983
MD Washington University 1987

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

Mateusz Opuchal, PHD, MD
Associate Professor of Medicine (primary appointment)
PHD Rutgers University 2005
MD Rutgers University 2007

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

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

David William Ortblalos, MD
Assistant Professor of Clinical Medicine (primary appointment)
BS Saint Louis University 1966
MD Washington University 1970

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
Associate 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
BS Kitasato University 2000
PHD Chiba University 2017

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)
BS University of Missouri 1954
BA Washington Univ in St. Louis 1953
MD Washington Univ in St. Louis 1956

Daniel Marc Paget, MD
Instructor in Medicine (primary appointment)
MD University of CA San Francisco 2013

Michael Alexander Paley, MD
Instructor in Medicine (primary appointment)
MD University of Pennsylvania 2014

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

Kevin Terrence Palka, MD
Assistant Professor of Medicine (primary appointment)
MD University of Texas Southwest 2001
BS Duke University 1995

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

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

Kerry Will Pantelis, MD
Instructor in Clinical Medicine (primary appointment)
MD University of MO Kansas City 2004

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

Haeseong Park, MS, MD
Assistant Professor of Medicine (primary appointment)
MS Johns Hopkins University Medic 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)
MBA Southern Illinois University 1985
MD Saint Louis University 1994
BS University of MO Rolla 1979

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

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

Namrata N Patel, MD
Instructor in Medicine (primary appointment)
Instructor in Pediatrics
MD University of Tennessee 2013

Pravinkumar Manjibhai Patel, MD
Instructor in Medicine (primary appointment)
MD BJ Medical College 1980

Rajiv Nanu Patel, MD
Instructor in Clinical Medicine (primary appointment)
MD Saba University School of Med 2001

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

Urvi Patel, MD
Assistant Professor of Medicine (Dermatology) (primary appointment)
BA Kent St University 2007
MD University of Tenn Memphis 2011
Amanullah Pathan, UNKNOWN, MS, UNKNOWN1
Instructor in Clinical Medicine (primary appointment)
MS School Not Listed 1969
UNKNOWN1 School Not Listed 1969

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

Philip Richard Orrin Payne, PHD, MA
Professor of Medicine (primary appointment)
Associate Dean for Health Information and Data Science and
Chief Scientist for the School of Medicine
Director of the Institute for Informatics
Janet and Bernard Becker Professor of Medicine
Professor of Computer Science and Engineering
PHD Columbia University 2006
BA University of CA San Diego 1999
MA Columbia University 2000

Chelsea Elizabeth Pearson, MD
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 2013

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

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

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)
BS University of Puerto Rico 1970
MD University of Puerto Rico 1973

Laurence F Perlstein, MD
Instructor in Clinical Medicine (primary appointment)
MD University of Louisville 1974
BS Tulane University 1967

Linda R Peterson, MD
Professor of Medicine (primary appointment)
Professor of Radiology
BS Georgetown University 1986
MD Washington Univ in St. Louis 1990

Lindsay L Peterson, MD
Associate Professor of Medicine (primary appointment)
MD Tulane University 2006
BS Tulane University 2000

Timothy Richard Peterson, PHD
Assistant Professor of Medicine (primary appointment)
PHD Mass Inst of Technology (MIT) 2010
BS University of Michigan 1999

Christine T Pham, MD
Professor of Medicine (primary appointment)
Professor of Pathology and Immunology
MD University of Florida 1985
BS University of Florida 1981

Jennifer A Philips, PHD, MD, PHD
Associate Professor of Medicine (primary appointment)
Associate Professor of Molecular Microbiology
BA Columbia University 1991
PHD University of CA San Francisco 1998
MD University of CA San Francisco 2000
PHD University of CA San Francisco 2015

William J Phillips, MD
Assistant Professor of Clinical Medicine (primary appointment)
BA Ohio State University 1959
MD Washington Univ in St. Louis 1963

Joel Picus, MD
Professor of Medicine (primary appointment)
BA University of Illinois 1979
BS University of Illinois 1979
MD Harvard University 1984

Stephen J Pieper, MD
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1988
BA Washington Univ in St. Louis 1983

Sytsje J Piersma, MS, PHD
Instructor in Medicine (primary appointment)
MS State University of Utrecht 2003
PHD Leiden University 2010

Mark Alan Pinkerton II, MD
Instructor in Medicine (primary appointment)
BS University of Alabama 2012
MD University of Mississippi 2016

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

Nishant Poddar, MBBS
Associate Professor of Medicine (primary appointment)
MBBS Veer Surendra Sai Medical Coll 2000
Doug Pogue, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 1996

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

Faran Salim Polani, MD  
Instructor in Medicine (primary appointment)  
MD Dow Medical College Karachi 2012

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

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

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

William J Popovic, MD  
Assistant Professor of Medicine (primary appointment)  
BS John Carroll University 1967  
MD Saint Louis University 1971

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

Yogitha S. Potini, MD, MS  
Instructor in Clinical Medicine (primary appointment)  
BS Washington Univ in St. Louis 2009  
MD Southern Illinois University 2015  
MS Tufts University 2011

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

William G Powderly, MD  
J. William Campbell Professor of Medicine (primary appointment)  
Assistant Dean for Clinical and Translational Research  
Larry J. Shapiro Director of the Institute of Public Health  
MD National University of Ireland 1979

John A Powell, MD  
Assistant Professor of Clinical Medicine (Dermatology) (primary appointment)  
MD University of Michigan 1971  
BS University of Notre Dame 1967

Jennifer Lynn Powers Carson, PHD  
Associate Professor of Medicine (primary appointment)  
BS Union University 1988  
PHD Georgia Tech 1993

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

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

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

Vajravel M Prasad  
Adjunct Instructor in Medicine (primary appointment)

Christopher William Prater, MD  
Assistant Professor of Medicine (primary appointment)  
Assistant Professor of Pediatrics  
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

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

Patricia Elizabeth Prusaczyk, PHD, MSSW  
Instructor in Medicine (primary appointment)  
BA Webster University 2007  
PHD Washington Univ in St. Louis 2017  
MSSW Washington Univ in St. Louis 2011

Aaron J Pugh  
Adjunct Instructor in Medicine (primary appointment)

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

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

Q

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

Annabel Quinet De Andrade, PHD, MS, PHD2  
Instructor in Medicine (primary appointment)  
PHD1 University of Paris 2012  
BS University of Paris 2007  
MS University of Paris 2009  
PHD2 University of Paris 2012

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)

Amaad Bashir Rana, MD  
Instructor in Medicine (primary appointment)  
Instructor in Medicine  
BA Emory University 2013  
MD University of Alabama 2017

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

Srinivasan Dubagunta Rao  
Adjunct Instructor in Medicine (primary appointment)

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

Keith M Ratcliff  
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

Saadia Taufiq Raza, MD  
Assistant Professor of Clinical Medicine (Dermatology) (primary appointment)  
BA Emory University 1993  
MD Emory University 1997

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

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

Arhaanth D Reddy  
Instructor in Clinical Medicine (primary appointment)

Kavitha Reddy, MD  
Assistant Professor of Emergency Medicine in Medicine (primary appointment)  
BA University of MO Kansas City 2019  
MD University of MO Kansas City 2019

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

Dominic N Reeds, MD  
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)
BS Tulane University 1962
MD Tulane University 1966

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

Melissa Andrea Reimers, MD
Assistant Professor of Medicine (primary appointment)
MD Saint Louis University 2013
BA Washington Univ in St. Louis 2008
BA Washington Univ in St. Louis 2008

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

Zhen Ren, MD, PHD, MS
Instructor in Medicine (primary appointment)
MD Tongji University 2019
PHD City University of NY 2019
MS Shanghai Jiao Tong University 2019

Hilary Elizabeth Lee Reno, MS, MD, PHD
Associate Professor of Medicine (primary appointment)
MS University of Illinois 1997
MD University of Illinois 2002
PHD University of Illinois 2000

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

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

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

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

Nancy Ridenour
Adjunct Professor of Medicine (primary appointment)

Amy Elizabeth Riek, MD
Associate Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 2005
BS Univ of Wisconsin Madison 2001

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

Christopher Rigell, MD
Assistant Professor of Medicine (primary appointment)
BA Vanderbilt University 2009
MD University of Alabama 2013

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

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

Guillermo Rodriguez Jr, MD
Assistant Professor of Medicine (primary appointment)
MD National Autonomous U of Mex 1980

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

Benjamin Dale Rogers, MD
Instructor in Medicine (primary appointment)
MD University of Louisville 2014

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)
MD School Not Listed 1987
BS Union College New York 1982
Arthur G. Romero, PhD
Professor of Medicine (primary appointment)
BS Johns Hopkins University 1979
PHD Univ of Wisconsin Madison 1985
Ernesto J Romo, MD
Instructor in Emergency Medicine in Medicine (primary appointment)
MD University of Illinois Chicago 2011
BS University of Dayton 2007
Richard Rood, MD
Professor of Medicine (primary appointment)
MD Wright State University 1982
Bruce A Rosa, MS, PHD
Assistant Professor of Medicine (primary appointment)
BS Lakehead University 2005
PHD Lakehead University 2012
Daniel B Rosenbluth, MD
Professor of Medicine (primary appointment)
Professor of Pediatrics
Tracey C and William J Marshall Professor of Medicine
MD Mount Sinai School of Medicine 1989
BS Columbia University 1985
Ilana Shaina Rosman, MD
Associate Professor of Medicine (Dermatology) (primary appointment)
Associate Professor of Pathology and Immunology
MD Washington Univ in St. Louis 2008
BA Brown University 2000
Bruce J Roth, MD
Professor of Medicine (primary appointment)
MD Saint Louis University 1980
Marcos Rothstein, MD
Professor of Medicine (primary appointment)
MD University of Zulia 1974
Ernest Tuttle Rouse III, MD
Instructor in Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1971
BA Princeton University 1967
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
MD Albert Einstein College of Med 1981
BS Mass Inst of Technology (MIT) 1977
Myra L. Rubio, MD
Associate Professor of Medicine (primary appointment)
MD Indiana University Bloomington 1998
BA Washington Univ in St. Louis 1994
Paetra Ruddy, MD
Assistant Professor of Medicine (Dermatology) (primary appointment)
MD University of Iowa 2011
BA Bard College 1997
Peter G Ruminski, MS
Instructor in Medicine (primary appointment)
MS Washington Univ in St. Louis 1992
BS Saint Louis University 1975
BS Saint Louis University 1977
Michael B Rusche
Adjunct Instructor in Medicine (primary appointment)
Tonya D Russell, MD1, MD, BS1
Professor of Medicine (primary appointment)
MD1 University of Florida 1997
MD University of Florida 1997
BS University of Florida 1993
BS1 University of Florida 1993
Ilaria Russo, PHD, MS, MS
Adjunct Assistant Professor of Medicine (primary appointment)
PHD University of Padua 2005
BS University of Palermo 1998
BS University of Palermo 1998
MS University of Padua 1998
MS University of Padua 1998
Joseph F Ruwitch Jr, MD
Professor of Clinical Medicine (primary appointment)
MD Washington Univ in St. Louis 1966
S
Molly Sachdev, MD, M PH
Assistant Professor of Medicine (primary appointment)
MD Duke University 2001
M PH University North Carolina 2000
Justin Sadhu, MD
Assistant Professor of Medicine (primary appointment)
MD Washington Univ in St. Louis 2007
Mehrdad Saeed-Vafa, MD
Instructor in Clinical Medicine (primary appointment)
MD School Not Listed 2000
Jose Bernardo Saenz, PHD, MD
Sonny Satnam Saggar  
Instructor in Clinical Medicine (primary appointment)  

Rajan Sah, PHD, MD  
Associate Professor of Medicine (primary appointment)  
Associate Professor of Cell Biology and Physiology  
PHD University of Toronto 2020  
MD University of Toronto 1998  

Sana Saif Ur Rehman, MD  
Assistant Professor of Medicine (primary appointment)  
MD King Edward Medical College 2007  

Kaori A. Sakurai, MD  
Assistant Professor of Medicine (primary appointment)  
MD University of Pittsburgh 1997  

Maamoun Salam, MD  
Assistant Professor of Medicine (primary appointment)  
MD Damascus U. Medical School 2009  

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

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

Maanasi Samant, MD  
Assistant Professor of Medicine (primary appointment)  
MD University of Tennessee 2014  

Robert Van Ness Same, MD  
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)  
MD Johns Hopkns University Medc 2014  

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

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

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

Guadalupe Sanchez, MD  
Instructor in Clinical Medicine (Dermatology) (primary appointment)  
BA Berry College 1974  
MD Harvard University 1978  

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

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

Sumithra Sankararaman, PHD, MS  
Instructor in Medicine (primary appointment)  
PHD Institute of Math Sciences 2003  
BS Fergusson College 1995  
MS Indian Institute Of Technology 1997  

Daniel Jose Santa Cruz, MD  
Instructor in Clinical Medicine (Dermatology) (primary appointment)  
MD Universidad del Buenos Aires 1971  

Evelio E. Sardina, MD, MS, PHD  
Instructor in Clinical Medicine (primary appointment)  
BA Rutgers University 1985  
MD University of South Florida 1994  
MS University of South Florida 1988  
PHD University of South Florida 1990  

Gregory Stephen Sayuk, MD  
Associate Professor of Medicine (primary appointment)  
Associate Professor of Psychiatry  
MD University of Texas Austin 2000  

Lawrence R Schacht, MD  
Instructor in Clinical Medicine (primary appointment)  
BA University Wyoming 1971  
MD Oregon Health Science Univers 1975  

Christine Schafer, MD  
Assistant Professor of Medicine (Dermatology) (primary appointment)  
MD Rutgers-Robert Wood Johnson Me 2020  

Richard O. Schamp, MD  
Instructor in Clinical Medicine (primary appointment)  
BA Emporia State University 1974  
MD University of Kansas 1978  

Jennifer Lynn Scheer, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Washington Univ in St. Louis 1994
Erica Lynn Scheller, DDENT, PHD  
Assistant Professor of Medicine (primary appointment)  
Assistant Professor of Cell Biology and Physiology  
BS Michigan State University 2004  
DDENT University of Michigan 2011  
PHD University of Michigan 2011

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

Alvin K Schergen, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Saint Louis University 1980  
BA Washington Univ in St. Louis 1976

Joel D. Schilling, PHD, MD  
Associate Professor of Medicine (primary appointment)  
Associate Professor of Pathology and Immunology  
BA Colorado College 1996  
PHD Washington Univ in St. Louis 2001  
MD Washington Univ in St. Louis 2003

Tania L Schmid, MD  
Instructor in Clinical Medicine (primary appointment)  
BA University of Mississippi 1981  
MD University of Mississippi 1985

Jennifer Merlo Schmidt, MD  
Assistant Professor of Medicine (primary appointment)  
MD Saint Louis University 2012

Robert Jay Schneider, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
MD Johns Hopkins University 1976  
BA Johns Hopkins University 1973

Erin R. Schockett, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Brown University 2005

Mark Andrew Schroeder, MD  
Associate Professor of Medicine (primary appointment)  
MD University of Cincinnati 2003  
BS University of Toledo 1999

Alexander E Schuetz, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Saint Louis University 1996  
BA Saint Louis University 1991

Stephen Schuman, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Saint Louis University 1973

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

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

Kristen Ann Scullin-Hartman, MD  
Assistant Professor of Clinical Medicine (primary appointment)  
MD University of MO Kansas City 1988

Alyssa Aya Self, MD  
Instructor in Medicine (primary appointment)  
BA Brown University 2013  
MD University of Colorado Denver 2017

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

Clay F Semenkovich, MD  
Irene E and Michael M Karl Professor of Endocrinology and Metabolism in Medicine (primary appointment)  
Professor of Cell Biology and Physiology  
BA University of Virginia 1977  
MD Washington Univ in St. Louis 1981

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

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

Harvey Serota, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Johns Hopkins University 1982  
BA Johns Hopkins University 1976

James F Seltl, MD  
Instructor in Clinical Medicine (primary appointment)  
MD Saint Louis University 1966  
BA Washington Univ in St. Louis 1962

Aisha Shaikh, MD  
Associate Professor of Medicine (primary appointment)  
MD Dow Medical College Karachi 2001

Liang Shan, MS, PHD  
Assistant Professor of Medicine (primary appointment)  
Assistant Professor of Pathology and Immunology  
MS Fudan University 2007
BS Nankai University 2003
PHD Johns Hopkins University 2012

Jieya Shao, PHD
Assistant Professor of Medicine (primary appointment)
BS Nankai University 1996
PHD Oklahoma St University 2002

Rajiv Kumar Sharma
Adjunct Instructor in Medicine (primary appointment)

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

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

Jonathan Holden Sheehan, PHD
Associate Professor of Medicine (primary appointment)
BA Harvard University 1988
PHD Vanderbilt University 2006

Edward Sheen, MD
Assistant Professor of Medicine (primary appointment)
MD University of CA San Francisco 2008

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

Karen Ching-Chieh Shen, MD
Instructor in Medicine (primary appointment)
MD Washington Univ in St. Louis 2017

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

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

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

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

Robert B Shuman, MD
Associate Professor of Clinical Medicine (primary appointment)
MD University of Missouri 1981

BA Brandeis University 1977

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

Corey Lamar Shy, MD
Instructor in Medicine (primary appointment)
BA Prairie View A&M University 2013
MD Texas A&M University 2017

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

Jessica Monique Silva-Fisher, PHD
Instructor in Medicine (primary appointment)
BS St Marys University 2005
PHD Mayo Graduate School 2011

Julie Martha Silverstein, MD
Associate Professor of Medicine (primary appointment)
Associate 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)
MD Washington Univ in St. Louis 1975
BA Washington Univ in St. Louis 1969

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

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

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

Nathan Singh, MD, MS
Assistant Professor of Medicine (primary appointment)
BA Haverford College 2006
MD University of Pennsylvania 2013
BA Haverford College 2006
MS University of Pennsylvania 2013

Sudhir Man Singh, MBBS
Instructor in Medicine (primary appointment)
MBBS Chittagong Medical College 2004

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

Amanda Melanie Smith, PHD
Instructor in Medicine (primary appointment)
PHD Univ of New Castle Medical Sch 2014

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

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

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

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

Michael C Snyder
Adjunct Instructor in Medicine (primary appointment)

Sandeep Sodhi, MD
Assistant Professor of Medicine (primary appointment)
MD University of Illinois 2010

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

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

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

George Souroullas, PHD
Assistant Professor of Medicine (primary appointment)
PHD Baylor University 2010
BA Ohio Wesleyan University 2004

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)
BS Loyola University Chicago 2005
MD University of Illinois 2010

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

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

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)
BA Barnard College 1962
PHD University of Virginia 1990
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)

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

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

Keith Evan Stockerl-Goldstein, MD
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

Xinming Su, PHD, MS
Assistant Professor of Medicine (primary appointment)
BS Shilihezi Medical College 1996
PHD Nanjing Agriculture Univ 2006
MS Nanjing Agriculture Univ 2003

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

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

Hani Suleiman, MD
Assistant Professor of Medicine (primary appointment)
MD Regensburg University 2007

Kaharu Sumino, M PA, MD, PHD
Associate Professor of Medicine (primary appointment)
M PA Johns Hopkins University 2008

MD Yokohama City Univ Sch Med 1992
PHD Yokohama City Univ Sch Med 1999

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

Luis David Sumoza, MD
Instructor in Medicine (primary appointment)
MD University de Carabobo 1990

Rama Suressh, MBBS
Associate 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

Reema Hameed Syed, MD
Associate Professor of Medicine (primary appointment)
MD Dow Medical College Karachi 2019

T

Laneshia K Tague, MD
Instructor in Medicine (primary appointment)
MD Northwestern University Med 2011
BS Northwestern University 2007

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

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

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

Heidi H Tastet, MD
Instructor in Medicine (primary appointment)
MD Loma Linda University 2005

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)
MD Washington Univ in St. Louis 1979
BA Washington Univ in St. Louis 1975

Larissa Bryka Thackray, PHD
Associate Professor of Medicine (primary appointment)
PHD U of Colorado Health Sci Ctr 2003
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Affiliations</th>
</tr>
</thead>
<tbody>
<tr>
<td>BS Cornell University 1991</td>
<td></td>
<td></td>
</tr>
<tr>
<td>George K. Thampy, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>MD Kerala University 1977</td>
</tr>
<tr>
<td>Shaukat Thanawalla</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td></td>
</tr>
<tr>
<td>J. Allen Thiel, MD</td>
<td>Associate Professor of Clinical Medicine (primary appointment)</td>
<td>BS Rockhurst College 1956 MD Saint Louis University 1960</td>
</tr>
<tr>
<td>Mark S Thoelke, MD, PHD</td>
<td>Professor of Medicine (primary appointment)</td>
<td>MD University of Illinois 1990 BS University of Illinois 1982 PHD University of Illinois 1990</td>
</tr>
<tr>
<td>Alex Anthony Thomas, MD</td>
<td>Instructor in Medicine (primary appointment)</td>
<td>MD University of Louisville 2015</td>
</tr>
<tr>
<td>Benjamin S Thomas, MD</td>
<td>Adjunct Instructor in Medicine (primary appointment)</td>
<td>BS Georgia Tech 2002 MD Mercer University Macon 2009</td>
</tr>
<tr>
<td>Theodore Seth Thomas, M PH, MD, MS</td>
<td>Instructor in Medicine (primary appointment)</td>
<td>M PH Washington Univ in St. Louis 2017 MD University of MO Columbia 2010 MS University of MO Columbia 2006 BS University of MO Columbia 2005</td>
</tr>
<tr>
<td>Erik P Thyssen, MD</td>
<td>Assistant Professor of Clinical Medicine (primary appointment)</td>
<td>MD University of Copenhagen 1984 BS University of Copenhagen 1980</td>
</tr>
<tr>
<td>Lawrence S Tierney, MD</td>
<td>Associate Professor of Clinical Medicine (primary appointment)</td>
<td>MD University of Illinois 1988 BS University of Illinois 1984</td>
</tr>
<tr>
<td>Jeffrey P Tillinghast, MD</td>
<td>Associate Professor of Clinical Medicine (primary appointment)</td>
<td>MD Washington Univ in St. Louis 1980 BS State University of New York 1976</td>
</tr>
<tr>
<td>Garry S Tobin, MD</td>
<td>Professor of Medicine (primary appointment)</td>
<td>BS MO S&amp;T (formerly UofMO Rolla) 1981 MD Washington Univ in St. Louis 1985</td>
</tr>
<tr>
<td>Fadi Tohme</td>
<td>Adjunct Assistant Professor of Medicine (primary appointment)</td>
<td>MD St. Joseph University, Beirut 2010</td>
</tr>
<tr>
<td>Douglas M Tollefsen, PHD, MD</td>
<td>Professor of Medicine (primary appointment)</td>
<td></td>
</tr>
<tr>
<td>PHD Washington Univ in St. Louis 1977</td>
<td></td>
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<tr>
<td>BA Grinnell College 1970</td>
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<tr>
<td>MD Washington Univ in St. Louis 1977</td>
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<tr>
<td>Valeria Tosti, MD</td>
<td>Instructor in Medicine (primary appointment)</td>
<td>MD University of Verona 2009</td>
</tr>
<tr>
<td>Robert R Townsend, PHD, MS, MD</td>
<td>Professor of Medicine (primary appointment)</td>
<td>Professor of Cell Biology and Physiology</td>
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<td></td>
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<td>PHD Johns Hopkins University 1982 MS Tulane University 1976 MD Tulane University 1976 BS Centenar College 1972</td>
</tr>
<tr>
<td>Elizabeth A Tracy, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>BS Marquette University 1982 MD Univ of Wisconsin Milwaukee 1986</td>
</tr>
<tr>
<td>Doris Janet Tribune-Brown</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td></td>
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<tr>
<td>Nikolaos Trikalinos, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>MD UNIVERSITY OF IOANNINA 2005</td>
</tr>
<tr>
<td>Shivani Tripathi, MD</td>
<td>Assistant Professor of Medicine (primary appointment)</td>
<td>MD Medical College of Wisconsin 2011</td>
</tr>
<tr>
<td>Sandeep Kumar Tripathy, MD, PHD</td>
<td>Associate Professor of Medicine (primary appointment)</td>
<td>MD University of Chicago 1998 BS University of Illinois 1990 PHD University of Chicago 1995</td>
</tr>
<tr>
<td>Elbert P Trulock III, MD</td>
<td>Rosemary and I Jerome Flance Professor of Pulmonary Medicine in Medicine (primary appointment)</td>
<td>MD Emory University 1978 BS Emory University 1968</td>
</tr>
<tr>
<td>Thomas F Tse, MD</td>
<td>Instructor in Clinical Medicine (primary appointment)</td>
<td>BS University of Nebraska 1972 MD Univ of Nebraska at Omaha 1976</td>
</tr>
<tr>
<td>David J Tucker, MD</td>
<td>Assistant Professor of Clinical Medicine (primary appointment)</td>
<td>BS University of Notre Dame 1977 MD Saint Louis University 1981</td>
</tr>
<tr>
<td>Dolores R Tucker, MD</td>
<td>Assistant Professor of Clinical Medicine (Dermatology) (primary appointment)</td>
<td>MD Washington Univ in St. Louis 1974 BS Saint Mary's College 1958</td>
</tr>
<tr>
<td>Stacey S Tull, M PH, MD</td>
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</tr>
</tbody>
</table>
Assistant Professor of Clinical Medicine (Dermatology) (primary appointment)
M PH Duke University 1997
MD Duke University 1997
BS University of Texas Austin 1993

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

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

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

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

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

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

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

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

Gil M Vardi, MD

Assistant Professor of Clinical Medicine (primary appointment)
MD Tel-Aviv University 1988

Maria Cristina Vazquez Guillamet, MD
Assistant Professor of Medicine (primary appointment)
MD Carol Davila U of Medicine 2005

Rodrigo Vazquez Guillamet, MD
Associate Professor of Medicine (primary appointment)
MD University of Barcelona 2005

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

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

Aaron Martin Yer Heul, MD, PHD
Instructor in Medicine (primary appointment)
MD University of Iowa 2019
PHD University of Iowa 2019

Amanda K Verma, MD
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
MD Duke University 2013

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

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

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

Dennis T Villareal, MD
Adjunct Associate Professor of Medicine (primary appointment)
BS University of San Carlos 1978
MD CEBU Doctor’s College of Med 1982

Alessandro Vindigni, MS, PHD
Professor of Medicine (primary appointment)
Professor of Biochemistry and Molecular Biophysics
Professor of Pathology and Immunology
MS University of Padua 1992
PHD University of Padua 1995

John L Visconti, MD
Assistant Professor of Medicine (primary appointment)
BS University of MO St Louis 1986
MD Univ of Health Sciences KC 1990

Benjamin Allen Voss, BA1, MD
Assistant Professor of Clinical Medicine (primary appointment)
BA Saint Louis University 2003
BA1 Saint Louis University 2003
MD Creighton University 2007

Stanley G Vriezelaar, MD
Instructor in Clinical Medicine (primary appointment)
BA Simpson College 1977
MD University of Iowa 1981

W

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

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

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

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

Matthew John Walter, MD
Edward P. Evans Endowed Professor of Myelodysplastic
Syndromes (primary appointment)
Professor of Genetics
BS The American University 1990
MD Saint Louis University 1995

Richard Coburn Walters, MD
Instructor in Clinical Medicine (Dermatology) (primary appointment)
MD Washington Univ in St. Louis 1973
BS University of Illinois 1969

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

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

Leyao Wang, M PH, PHD
Instructor in Medicine (primary appointment)

M PH Johns Hopkins University 2017
PHD Fudan University 2017
BA Nankai University 2017

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

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

Jeffrey Peter Ward, PhD, MD
Assistent Professor of Medicine (primary appointment)
PHD SUNY Upstate Medical Universit 2010
BS Wilkes University 2002
MD SUNY Upstate Medical Universit 2010

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

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

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

Karla Washington, PhD, MSW
Associate Professor of Medicine (Pending Executive Faculty
Approval) (primary appointment)
PHD University of missouri 2009
MSW University of missouri 2000

Scott P Wasserstrom, MA, MD
Instructor in Clinical Medicine (primary appointment)
BS University of Illinois 1990
MA Washington Univ in St. Louis 1995
MD Washington Univ in St. Louis 1995

James Richards Watson, MD
Instructor in Medicine (primary appointment)
BS University of Virginia 2006
MD Virginia Comm University 2016

Jason Dean Weber, PHD
Professor of Medicine (primary appointment)
Professor of Cell Biology and Physiology
PHD Saint Louis University 1997
BS Bradley University 1993

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

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

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

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

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

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

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

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

Edmond Weisbart
Assistant Professor of Clinical Medicine (primary appointment)

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

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

Mia Chana Weiss, MD
Assistant Professor of Medicine (Pending Executive Faculty Approval) (primary appointment)
BA Smith College 2010
MD Tel-Aviv University 2020

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

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

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

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

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

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

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

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

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

Samuel A Wickline, MD
Terminated Faculty
BA Pomona College 1974
MD University of Hawaii 1980

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

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

**Spencer Gaffney Willet, PHD**
Instructor in Medicine (primary appointment)
PHD Vanderbilt University 2014
BS University of Tennessee 2007

**Dominique S. Williams, MD**
Assistant Professor of Medicine (primary appointment)
BS University of Houston 2008
MD Baylor College of Medicine 2012

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

**Kelley Jo Williams, MD**
Instructor in Medicine (primary appointment)
MD University of Illinois 2018
BS Saint Louis University 2011

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

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

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

**Patrick H Win**
Instructor in Clinical Medicine (primary appointment)

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

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

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

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

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

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

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

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

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

**Kangyun Wu, PHD**
Instructor in Medicine (primary appointment)
PHD Beijing University 2007

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

**Matthew A Wyczalkowski, MME, PHD**
Instructor in Medicine (primary appointment)
MME University of CA Berkeley 2000
BS Pennsylvania State University 1996
PHD Washington Univ in St. Louis 2009

**Jun Xia, PHD**
Instructor in Medicine (primary appointment)
PHD University of Illinois 2006

**Zhifu Xiang, MD, PHD**
Associate Professor of Medicine (primary appointment)
MD Tongji University 1990
PHD Tongji University 1998
Yan Xie, MD, MS  
Instructor in Medicine (primary appointment)  
MD Tongji University 1986  
MS Hubei Medical University 1991

Y

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

Timothy Teng-Kay Yau, MD  
Associate Professor of Medicine (primary appointment)  
BA Saint Louis University 2001  
MD Saint Louis University 2005

Derek Yee, MD  
Instructor in Medicine (primary appointment)  
MD Rutgers University 2014

Debra Wendy Yen, MD  
Instructor in Medicine (primary appointment)  
MD Washington Univ in St. Louis 2017  
BS Washington Univ in St. Louis 2013

Po-Yin Yen, PHD, MS  
Associate Professor of Medicine (primary appointment)  
BS National Cheng Kung University 2001  
PHD Columbia University 2010  
MS Oregon Health Science Univ 2005

Wayne M Yokoyama, MD  
Sam and Audrey Loew Levin Professor of Medicine (Rheumatology) (primary appointment)  
Professor of Pathology and Immunology  
MD University of Hawaii 1978  
BA University of Rochester 1974

Jun Yoshino, PHD, MD  
Assistant Professor of Medicine (primary appointment)  
Assistant Professor of Developmental Biology  
PHD Keio University 2004  
MD Keio University 2000

Mihoko Yoshino, MD, PHD  
Assistant Professor of Medicine (primary appointment)  
MD Keio University 2000  
PHD Shimane Medical University 2006

Danicela Younce, MD  
Instructor in Medicine (primary appointment)  
MD University North Carolina 2014  
BS University North Carolina 2008

Eman B Yousif, MD  
Instructor in Medicine (primary appointment)  
BA Northwestern University 2013  
MD University of Illinois 2017

Simon Yu, MD  
Instructor in Clinical Medicine (primary appointment)  
MD University of MO Columbia 1984

Roger D. Yusen, MD, MPH  
Associate Professor of Medicine (primary appointment)  
BS University of Illinois 1986  
MD University of Illinois 1990  
MPH Saint Louis University 2002

Z

Alan Zajarias, MD  
Professor of Medicine (primary appointment)  
Professor of Surgery (Cardiothoracic Surgery)  
MD National Autonomous U of Mex 2000

John F. Zalewski, MD  
Instructor in Clinical Medicine (primary appointment)  
MD State Univ of NY Buffalo 1980  
BS Clarkson University 1973

Nichole Gallegos Zehnder, MD  
Associate Professor of Medicine (primary appointment)  
Associate Dean for Education Strategy  
MD University of Rochester 2006

Kathleen W Zhang, MD  
Assistant Professor of Medicine (primary appointment)  
MD University of Pennsylvania 2013

Qiang Zhang, PHD, MCHEM  
Instructor in Medicine (primary appointment)  
PHD University of CA Santa Barbara 2003  
MCHEM Xiamen University 1998  
BS Xiamen University 1995

Rong Mei Zhang, MD  
Instructor in Medicine (primary appointment)  
MD Medical College of Wisconsin 2011  
BS University of Wisconsin - Madi 2005

Yong Zhang, MD, PHD, MS  
Assistant Professor of Medicine (primary appointment)  
MD Anhui Medical University 1978  
PHD Albert Ludwig University 1999  
MS Sun Yat-Sen University 1983

Diana Yi Zhao, MD, PHD  
Instructor in Medicine (primary appointment)  
MD Washington Univ in St. Louis 2017  
BS University of Chicago 2008  
PHD Washington Univ in St. Louis 2017

Peter Chen Zhao, MD  
Instructor in Medicine (primary appointment)  
MD Washington Univ in St. Louis 2015  
BS Emory University 2011

Amy Wei Wei Zhou, MD  
Assistant Professor of Medicine (primary appointment)  
BS University of Michigan 2005
Research Electives

Medicine Research Electives

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

For information about Primary Care Summer Preceptorships (p. 57), please refer to the information at the bottom of this section.

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

Research in this translational physiology laboratory is focused on the development of novel antithrombotic approaches for use during acute myocardial infarction, stroke, and surgery in which 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 P. Atkinson, MD
Clinical Sciences Research Building, 10th Floor
Phone: 314-362-8391

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

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

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

Our focus is on the genetic pathways of 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 United States, 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.

Bradley Evanoff, MD, MPH
Phone: 314-454-8638
Our primary interest is on occupational medicine epidemiology and intervention research. Our research involves the use of epidemiology methods to characterize associations between diseases and work-related exposures. We are also doing workplace intervention studies to prevent injuries and illnesses and to improve healthy diet and physical activity among working populations. During an elective in occupational medicine epidemiology research, students will learn how to use epidemiologic methods to investigate disease processes by working on a mutually agreed-on topic of interest related to occupational diseases. Other activities can include worksite visits and intervention projects as well as involvement with worksite 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; roles of phospholipases in mediating the metabolic syndrome and end-organ tissue damage.

Stacey House, MD, PhD
Phone: 314-362-8070
houses@wustl.edu
Lisa Hayes
Phone: 314-362-4362
hayesl@wustl.edu
Emergency medicine clinical research is the primary focus of this lab. This type of research involves the gamut of research designs, 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 the analysis of 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 of minimal risk. Students will be taught important rules regarding data acquisition and entry, particularly as these relate 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 time commitment. Students will meet weekly with one of the course directors to discuss study progress and to identify any roadblocks to study completion. These meetings will also serve as a forum for one-on-one education of the student regarding study methodology, ethical issues in research, and various resources available to the clinical researcher at Washington University.

Sander J. Kovacs, MD, PhD
9965 Clinical Sciences Research Building
Phone: 314-362-8901
This experience is geared toward students with math, physics and engineering backgrounds. The cardiovascular biophysics research elective concentrates on physiologic modeling and the comparison of model predictions to in vivo human data. The minimum elective time is eight weeks.

Marc S. Levin, MD, and Deborah C. Rubin, MD
922/924 Clinical Sciences Research Building
Phone: 314-362-8933 or 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 the 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 after 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 they relate 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 the production of transgenic and knockout mouse models, in situ hybridization and immunohistochemistry.

Jason C. Mills, MD, PhD
Clinical Sciences Research Building, North Tower, Room 1030
Phone: 314-362-4213
We investigate the differentiation of epithelial stem cells in the upper gastrointestinal 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 the following: (1) understanding how inflammation leads to aberrant differentiation (metaplasia), which is a precursor for cancer; (2) elucidating how master regulatory transcription factors like Xbp1 and Mist1 coordinate the massive cytoskeletal and organelar expansion of specialized secretory cells as they differentiate from stem cells; and (3) understanding the mechanisms that regulate how differentiated cells can be reprogrammed into stem cells in gastrointestinal organs like the stomach and the pancreas.

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

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

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

Our lab focuses on several aspects of tumor immunology and translational immunotherapy. We utilize mouse tumor models, human tissues and samples, and advanced molecular and immuno logic 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.

Katherine Ponder, MD
8818 Cancer Science Research Building
Phone: 314-362-5188
kponder@wustl.edu

The focus of this lab is on gene therapy for 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 that results in expression sufficient to reduce many of the clinical manifestations of these genetic diseases. Current studies focus on assessing the therapeutic effect of gene therapy on sites that are affected in MPS (e.g., heart, aorta, bones, joints) and on 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.

Clay F. Semenkovich, MD
Southwest Tower, Room 13116
Phone: 314-286-1350
pstein@wustl.edu

This lab's main focus is on the clinical significance of heart rate variability and ECG-derived waveform parameters obtained from continuous ambulatory monitoring. This elective affords the student 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 using 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 to developing methods to quantify ultradian heart rate variability patterns to developing novel ECG analysis techniques, among others. 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 more than 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 patients from the CHS and from 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 of the relationship of heart rate variability with changes in heart rate variability over time and with 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 after cardiac surgery as well as data from a study of the treatment of depression in treatment-resistant depressed post-MI patients, a study of sickle cell patients, and a study of heart rate variability and echo parameters in elderly African Americans. Currently, we are also analyzing HRV in premature infants as they mature and 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 for about 20,000 subjects for whom continuous ECGs from Holter recordings, sleep studies, and ICU studies are available, as well as some mouse data, the student will be able to choose a project that may lead 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 is the main focus of this lab. Experience with the 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
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.

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 physiochemical and molecular biological techniques. These studies should lead to better forms of allergy immunotherapy. Students will participate in the isolation, characterization and modification of major allergens from a number of molds, including *Stachybotrys atra* and *Epidermococcus nigrum*, and from several pollens, including those from white oak and *Parthenium hysterophorus*, a newly recognized allergen.

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**Primary Care Summer Preceptorships**

Since 1996, the School of Medicine has sponsored a primary care preceptorship program for medical 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.

**Courses**

Courses include the following:

- M25 Medicine (p. 57)
- M27 Emergency Medicine (p. 64)

**M25 Medicine**


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**M25 Medicine 507 Practice of Medicine I**

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

Credit 198.5 units.
**M25 Medicine 605A Infectious Diseases**
The Infectious Diseases course teaches both organism-specific and organ-specific approaches to disease caused by microbes. The course expands upon the material presented in the first year concerning bacteria, viruses, fungi and parasites and their involvement in causation of human disease. It explores the complex interaction between microbes and host in the individual patient, and at the broader public health level. The course introduces the recognition and initial management of common infectious diseases. Educational methods include lecture, interactive in-class case discussions and review sessions, and student-led clinical case discussions in small groups. Credit 51 units.

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

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

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

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

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

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

**M25 Medicine 615A Endocrinology and Metabolism**
The endocrine pathophysiology course aims to provide an understanding of the pathophysiology and clinical manifestations of common endocrine disorders. Emphasis is placed upon relevant clinical history and physical examination as well as the interpretation of investigations for endocrine disorders. Basic principles of treatment of endocrine disorders will also be discussed. Lectures are supplemented by organ-specific clinical case discussions. Credit 31 units.

**M25 Medicine 620A Gastroint. and Liver Diseases/Nutrition**
This course discusses the pathophysiological mechanisms underlying diseases 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 discussion of 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: 1) Diversity 3.0 training 2) Business of medicine 3) Individualized Learning Objectives in clinical scenario 4) PSQI 5) Mock Deposition, Risk Management, and Adverse Patient Outcomes 6) Compassion Fatigue, Resilience, and Burnout Part 1 7) Compassion Fatigue, Resilience, and Burnout Part 2 8) Caring for Incendiary Patients 9) Diagnostic Error and Transitions of Care 10) Strategies for Effective Teaching and Mentoring Attendance at 8 out of 10 POM III sessions is required to pass this course. Students may use 2 absences for any reason and are recommended to save them for their ACES rotation, Labor & Deliver rotation, or an emergency.

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 learn primary care in internal medicine and family medicine clinics at Barnes-Jewish hospital or community-based practices. Teaching is provided by the Chief of Service, attending Physicians, House Officers, consultants, Chief Residents and regularly scheduled conferences. Formal instruction is given regarding core internal medicine topics during the clerkship. A minimum of 12 weeks is required: 3 consecutive 4-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 4 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 4 hours of conferences per week (8:00 - 10:00 AM on Tuesday and Wednesday mornings) attendance is mandatory. Discussions are currently underway to allow students to participate in helicopter ride-alongs with ARCH Airmedical Services. Students can expect to gain a wide range of skills in evaluating uncomplicated upper respiratory infections, urinary tract infections, sexually transmitted diseases, lacerations, eye problems, rashes, simple extremity trauma—in general, “bread and butter” medical/surgical problems. Students do a case presentation (15 min) at the close of the block. Credit 154 units.

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

M25 Medicine 750 Geriatrics Clerkship
The primary goal of this rotation is for students to gain proficiency in the principles of geriatric evaluation and management, including the medical, psychological, social, and functional assessments of older adults. Students are expected to participate in the evaluation of three to five patients per week, in a variety of settings including the outpatient Geriatric Assessment Clinic, in-patient 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. Many clinical activities are off-site from the medical campus. Students will be required to coordinate transportation to and from such sites. Students will be expected to give an oral presentation on a topic of their choice once during the rotation. Credit 154 units.

M25 Medicine 801 General Medicine Subinternship - BJH
The purpose of the General Medicine Subinternship is the development of expertise in the care of hospitalized patients in a well-supervised teaching environment. Subinterns act as their patients’ interns under the supervision of residents and attending physicians. Subinterns 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. Subinterns are not required to spend call nights in the hospital. Except in emergencies, subinterns 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. Subinterns 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. Subinterns attend the same conferences as the house staff.
M25 Medicine 805 Rheumatology  
Students will be involved in the diagnostic work-up and management of patients with conditions such as: systemic lupus erythematosus, rheumatoid arthritis, scleroderma, vasculitis (ANCA-associated vasculitis, temporal arteritis, etc.), spondyloarthopathies (ankylosing spondylitis, psoriatic arthritis, reactive arthritis, etc.), and gout; there is less exposure to osteoarthritis 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 General Medicine Subinternship - VA  
The purpose of the General Medicine Subinternship at the VA Medical Center is to develop proficiency in the care of hospitalized patients on an internal medicine ward. Subinterns will have similar responsibilities as interns, with appropriate supervision by the attending and resident physicians. They have the same on-call/admitting schedules as the interns and participate in the same teaching conferences, but they do not take overnight call. Subinterns 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. Subinterns assume primary responsibility for the daily care of their patients, including evaluating each patient daily, presenting on morning rounds entering orders (discussed with and co-signed by the resident), interpreting results of diagnostic studies, calling consults, collaborating with nurses and social workers, organizing post-discharge care, and communicating with patients and their families. Subinterns also attend weekly small group learning sessions during which they discuss, diagnose, and treat patients using example cases. By the end of the VA General Medicine Subinternship, subinterns will be able to independently: - synthesize and succinctly present a patient’s history, exam, diagnostic data, assessment, and plan of care. - support differential diagnoses and proposed care plans with clinical reasoning and evidence. - demonstrate how to correctly order diagnostic tests and medications that further patient care. - analyze complex patient cases during interactive small group learning sessions. - integrate feedback from patients, residents, and attending physicians, and formulate a plan for ongoing improvement as a clinician.

M25 Medicine 810 Geriatric Medicine  
The primary goal of this rotation is for students to gain proficiency in the principles of geriatric evaluation and management, including the medical, psychological, social, and functional assessments of older adults. Students are expected to participate in the evaluation of two to ten patients per day, in a variety of settings including the outpatient Geriatric Assessment Clinic, inpatient Geriatric Consult service, outpatient Geriatric Medicine Primary Care clinics, VA Home-Based Primary Care, and Parc Provence Nursing Home. 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 am and is usually finished by 5:30 pm. There is no night or weekend call. Time is provided to read the detailed syllabus/bibliography. Many clinical activities are off-site from the medical campus; students will be required to coordinate transportation to and from such sites. Students will be expected to give an oral presentation on a topic of their choice once during the rotation.

M25 Medicine 811 Hospitalist Subinternship  
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. Students 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 811A Clinical Internal Medicine: Hospitalist  
This course allows the student to work one-on-one with hospitalist physicians on a patient care team. Daily responsibilities include admission history and physicals, daily notes, and discharge summaries for assigned patients. Students 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 821 Inpatient Cardiology  
Students will participate as members of the Barnes-Jewish Cardiology at Washington University Consultative Team. They will be part of a team composed of faculty members, fellows, residents, and nurse practitioners that sees a large population of cardiac patients and follows them through all aspects of their in-hospital care. Emphasis will be placed on physical examination and the interpretation of modern cardiac diagnostic tests including electrocardiograms, echocardiograms and coronary angiograms and their role in clinical decision making.

M25 Medicine 822 Cardiology Subinternship  
The structure and functioning of the Cardiology subinternship is very similar to the General Medicine Subinternship (M25 801 and M25 807). The basic purpose is to develop expertise in the care of hospitalized patients in a well-supervised teaching environment. The majority of patients admitted to the service will have a cardiology diagnosis as the main reason for admission. Some general medical problems will also be seen. All attendings on the service are cardiology subspecialists. Cardiology fellows act as the chief resident for the service on a monthly basis. Subinterns act as their patients’ interns under the supervision of attending physicians. Subinterns have the same on-call and admitting schedules as the interns on their teams and can be assigned up to two new patients on each admitting day. Subinterns are not required to spend call nights in the hospital. Except in emergencies, subinterns 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. Subinterns 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. Subinterns attend the same conferences as the internal medicine house staff. There are also several conferences specific to the cardiology service.
M25 Medicine 823 Clinical Cardiology - VA Hospital
The major purpose of this elective in clinical cardiology at the John Cochran VA Hospital is to improve evaluation and management skills for diagnosis and treatment of important cardiovascular conditions such as coronary artery disease including acute myocardial infarction, congestive heart failure, hypertension, and valvular heart disease. The rotation is designed to be flexible enough to accommodate a wide variety of course objectives but includes the opportunity to participate in 1-3 outpatient clinics per week; 1-4 weeks of inpatient intensive care, telemetry, or cardiology consultation rounds; and ECG, stress testing, nuclear imaging, or echocardiographic reading sessions, cardiac catheterization and electrophysiologic procedures. The emphasis will be on improvement of the ability to diagnose and treat cardiovascular 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
Students will be members of the Cardiac Electrophysiology Consultation Team, which includes faculty members, fellows, residents, and nurse practitioners. The student will serve at the primary assessor for consultations and will, in concert with the rest of the team, complete the patient's assessment and initiation recommendations and plan, as well as follow up. There is an emphasis on ECG evaluation and gaining familiarity with indications and details of arrhythmia therapeutics, including catheter ablation procedures, implantable device procedures, assessment, and programming, as well as antiarrhythmic drug therapy.

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 inpatient rounds, trainees are invited to attend both heart failure and transplant clinics. Further, the curriculum is supplemented by a 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. The student will participate in outpatient care in the Barnes-Jewish Hospital, VA, 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.

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

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

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

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

M25 Medicine 849 Sun Protection Outreach Teaching by Students (SPOTS)
Students will teach public and private middle school and/or high school students in the St. Louis area about skin cancer and sun protection. SPOTS courses are taught in 60- to 90-minute sessions. The program involves delivering a PowerPoint presentation with a prewritten script, interactive games, a video, and hands-on demonstrations. The elective is open to students who are new to this program, as well as students who previously participated in the SPOTS first-year selective. Students new to SPOTS are required to attend two evening training sessions (2.5 hours each) to learn the content of the program, as well as teaching strategies. For students who have taught SPOTS before, only one evening session is required. Training sessions for all enrolled students occur in the fall. A winter training session can be added if needed. Students will teach 4 SPOTS session per week of elective credit (8 sessions total). Students participating in the elective need to arrange for their own transportation to teaching sessions. Sessions are typically taught by students in pairs. Learning objectives:
1. Demonstrate knowledge of basic principles of skin cancer, including how to detect skin cancer and how to decrease risk with photoprotection. 2. Effectively communicate this knowledge to children/adolescents.

M25 Medicine 853 Bone and Joint Infectious Diseases
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 disease attending and nurse practitioner, follow their own patients and play an important role in their management. They are expected to read the literature about their patients and participate in clinical conferences. They attend teaching rounds and conferences and lectures in infectious diseases. They also learn appropriate use of antibiotics and antifungal agents. The role of surgical and medical management is discussed, and the students will interact with surgical staff in understanding the risks and outcomes of these common infections. Two weeks of General Inpatient Infectious Disease are a prerequisite to this course.

M25 Medicine 854 Transplant Infectious Diseases
Study of infectious diseases in patients who have had bone marrow or solid organ transplants, or who have a hematologic malignancy. The elective is designed to teach students the fundamentals of evaluating clinical infections in these complex and interesting patients and formulating plans for workup and therapy. Students see consultations in every part of Barnes-Jewish Hospital under the supervision of a faculty member who rounds with them every day. They work closely with the 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 disease 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 Diseases
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 and interact with ID fellows and Internal medicine residents. Students will participate in the care of HIV-infected or otherwise immunosuppressed patients as well as general infectious disease patients. The clinic is the primary provider for many HIV-infected patients, and students will learn the pathogenesis of HIV, become familiar with most antiretroviral medications, and have the opportunity to learn about opportunistic infections and their prophylaxis. They will also have the opportunity to see patients with bone and joint infections, endovascular infections, endemic and opportunistic mycoses, mycobacterial infections, sexually transmitted diseases, and many other infections. Patients seen will have a wide range of acute and chronic infections, and will include indigent and insured patients across a wide range of ages. The students will play an important role in the management of these patients and will present their assessments and plans to the supervising attending. They are expected to write clinic notes, read the literature about their patients, and participate in clinical conferences.

M25 Medicine 859 General Inpatient Infectious Diseases
This elective allows students to participate in the management of patients with a wide variety of infections in the inpatient setting. The elective is designed to teach students the fundamentals of evaluating clinical problems in infection and formulating plans for diagnosis and management. 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, conferences, and lectures in infectious diseases. They see a wide variety of infection diseases including community acquired acute and chronic infections, surgical infections, opportunistic infections in HIV-infected patients and other immunocompromised hosts, hospital-acquired infections, and basic infection control practices. They also learn appropriate use of antibiotics, antifungal and antiviral agents.

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

**M25 Medicine 867 Medical Intensive Care**
The Medical Intensive Care Unit Elective is designed to introduce senior medical students to cognitive and procedural aspects of critical care medicine. Students will be expected to learn the basic pathophysiology and treatment approaches to respiratory failure, shock states and metabolic derangements. Participation in procedures will be encouraged as available. Dynamics of difficult conversations with patients and family members will also be modeled and discussed. Clinical responsibilities will occur as a part of a team and students will be expected to participate in admissions and daily follow-up on assigned patients. Teaching will occur via didactic lectures on weekdays and formal patient discussions on rounds.

**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 BJH Hospice Team and the St. Louis Children’s Hospital Pediatric Advance Care Team. Students wishing to work with either team should contact the Course Director and Administrative Contact, as well as the Instructors of the appropriate team, with as much advance notice as possible as trainee spots are very limited for both. 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 procedures. 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 participate in bi-weekly presentations/group discussions on selected aspects of Palliative Medicine with the BJH Palliative Care team. Students will also be required to give a 20-minute presentation to the BJH Palliative Care team at the end of their rotation.

**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 fellow and faculty members to customize the learning experience to match his or her 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, radiation 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% of their workday. They will observe different styles that oncologists use when presenting news about prognosis, treatment options, and other information to patients while they also learn about the molecular basis for cancer, the mechanisms of action for our therapies (particularly the newer agents which target specific molecular abnormalities), and the key studies that justify the use of therapies (e.g. randomized studies showing that after surgery, chemotherapy will reduce the risk of recurrence from a particular cancer with a particular regimen). By spending time with clinicians, students will learn how to identify hereditary syndromes, use drugs for symptom relief, and also learn how to perform diagnostic and laboratory tests allow oncologists to care for patients.

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

**M25 Medicine 879 Pulmonary Clinic for the Underserved**
Clinical setting: Outpatient Clinic dedicated to providing pulmonary specialty care to patients who are predominantly uninsured or who rely upon public assistance such as Medicaid. Student role: Students independently interview and examine patients and present findings to the attending, tests and imaging are reviewed, and provider and attending develop plan. Common problems/diseases: Asthma, COPD, sarcoidosis, lung cancer, and obstructive sleep apnea are commonly seen. Also, patients are referred for evaluation of abnormal x-rays and for symptoms such as dyspnea. Primary learning objectives: - to understand and practice important history and exam skills in pulmonary medicine: symptoms, smoking history, work and environmental exposures, and important pulmonary physical exam findings. - to understand the basics of pulmonary function tests, chest imaging, and methods for tissue sampling. - to understand the basics 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 am and the Pulmonary Grand Rounds at 11:00 am if the subject matter is appropriate.
M25 Medicine 880 Pulmonary Medicine - Barnes-Jewish Hospital
Students will acquire skills in the evaluation and management of patients with pulmonary diseases and in the interpretation of pulmonary function tests. They will gain experience in outpatient Lung Center and attend regular pulmonary and critical care medicine conferences.

M25 Medicine 884 Bone Marrow Transplantation and Stem Cell Biology
Intense four-week clinical rotation exposing interested fourth-year medical students to the clinical world of bone marrow transplantation and to the basic science of hematopoiesis, leukemia, stem cell biology, and gene and cellular therapy including chimeric antigen receptor (CAR) T cell therapies. 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 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, transplant nephrology, the various CKD clinics, and all modalities of dialysis, including in-center, home, and peritoneal dialysis.

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

M25 Medicine 893 Adult Allergy and Clinical Immunology
Students will participate in the outpatient Allergy Clinics located in Barnes Jewish Hospital Center for Advanced Medicine, Barnes Jewish West County, and Center for Advanced Medicine South County. Students will participate in allergy skin testing, pulmonary function testing, and drug desensitization. They will have the opportunity to see patients with allergic rhinitis, asthma, hives, food allergy, immunodeficiency, eosinophilic esophagitis, hereditary angioedema, mastocytosis, contact allergic dermatitis, eczema, and more. They can attend allergy conferences on Thursday morning. Students have the option to follow a fellow and see inpatient consults at Barnes Jewish Hospital.

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

M27 Emergency Medicine

M27 EMED 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 about 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), and attendance is mandatory. Discussions are currently underway to allow students to participate in helicopter ride- alongs with ARCH Air medical 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, the "bread and butter" medical/surgical problems. Students do a 15-minute case presentation at the close of the block.
Credit 154 units.

M27 EMED 801 Emergency Medicine Subinternship
This rotation offers practical experience in the evaluation and management of acutely sick and injured patients. Students will function as subinterns, 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 the 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) to gain maximum exposure to all types of emergencies. A core content of lectures will be provided. Students will gain an understanding of other disciplines closely associated with Emergency Medicine by doing rotations with either social work, nursing, physical therapy, or respiratory therapy. Students will also gain knowledge of the triage system during their time in the department. If schedules allow, 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 WUMS-IV Emergency Medicine Subinternship. 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.
M27 EMED 810 Medical Toxicology
This rotation offers practical experience in the evaluation and management of the acutely ill, poisoned, or intoxicated patient. Students will function as subinterns and either report to a senior resident, a 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 or who have substance use disorders, 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. While not required, students are welcome to come in during their off hours to see new consults and enhance their experience and learning. 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 and addiction medicine also exist during this rotation; students will be able to rotate in the outpatient toxicology and addiction medicine clinic. Students will also have the opportunity to go to the Missouri Poison Center. Students desiring a letter of recommendation from one of the toxicology attendings (who are also Emergency Medicine attendings) or who are interested in Emergency Medicine or Medical Toxicology should take this elective. Also, students considering other specialties such as Pediatrics or Internal Medicine should consider this rotation, as they will be responsible for evaluating these patients as part of their inpatient or outpatient practice. Please be advised that there is a limit to the number of days off that can be taken on this rotation during interview season; otherwise, students should arrange to take the elective at a different time during the year. Days off should be requested from the course coordinator at least two weeks prior to the beginning of the rotation for scheduling purposes.

M27 EMED 820 Emergency Ultrasound
Point-of-care ultrasound has become an integral diagnostic and procedural tool for nearly every clinical specialty. Ultrasound examination at the bedside is noninvasive, painless, and repeatable, unlike many other common diagnostic tests. However, like all procedures, developing ultrasound skills takes a significant amount of practice and experience. This rotation will focus on clinical ultrasound image acquisition and interpretation at the bedside. 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, ocular, cardiac ultrasound, and DVT. Students will be involved in direct patient care during this rotation as part of the ultrasound team in the Emergency Department. In general, the student will be in the Emergency Department during weekdays to perform these exams. In addition, the student will meet with the elective instructor approximately once per week to review images or for direct hands-on instruction. At the end of the rotation, the student should be able to obtain images for basic point-of-care ultrasound examinations and to interpret those images for diagnostic purposes. Students may also have the opportunity to practice ultrasound-guided procedures during the rotation.