



Penn Medicine



Promoted
FACULTY 2010

The seal of the University of Pennsylvania School of Medicine is visible in the background, featuring a thistle and the text "UNIVERSITY OF PENNSYLVANIA SCHOOL OF MEDICINE 1765".

AT THE UNIVERSITY OF PENNSYLVANIA
SCHOOL OF MEDICINE



Reception

A large, stylized blue and white decorative flourish is positioned on the left side of the page, extending from the top left towards the bottom.

MONDAY, SEPTEMBER 13, 2010

5:30 – 7:00 P.M.

BIOMEDICAL RESEARCH BUILDING
MAIN LOBBY



Promoted
FACULTY 2010

Program

WELCOME REMARKS

Arthur H. Rubenstein, MBCh

Executive Vice President,
University of Pennsylvania for the Health System
Dean, School of Medicine

ADDRESS TO FACULTY

Bryan A. Wolf, M.D., Ph.D.

Chair, Committee on Appointments and Promotions

CLOSING REMARKS

Arthur H. Rubenstein, MBCh

RECEPTION CONTINUES



William M. Armstead, Ph.D.

Research Professor of Anesthesiology and Critical Care

Dr. Armstead is a leader in the field of cerebrovascular physiology and pharmacology, who is known for his expertise in cerebral circulation, particularly in the newborn. His research focuses on characterizing mechanisms that are important in the control of cerebral hemodynamics under physiologic and pathologic conditions such as traumatic brain injury, stroke and cerebral hypoxia/ischemia. He has a history of continuous grant funding. Dr. Armstead has contributed numerous peer-reviewed publications in leading journals, including the *American Journal of Physiology*, *Journal of Neurotrauma* and *Stroke*. He is on the editorial boards of *Microcirculation*, *American Journal of Physiology* and *The Open Critical Care Medicine Journal*. He is a member of two American Heart Association study sections and a Veterans Administration study section.

Gordon H. Baltuch, M.D., Ph.D.

Professor of Neurosurgery at the Hospital of the University of Pennsylvania

Dr. Baltuch is a nationally and internationally recognized leader in functional neurosurgery, and deep brain stimulation in particular. His innovative and collaborative clinical research focuses on the use of deep brain stimulation for a variety of neurological diseases, including movement disorders, pain, Parkinson's disease, epilepsy and psychiatric conditions such as depression. He is Associate Director of the Parkinson's Disease Research, Education and Clinical Center (PDRECC) at the Department of Veterans Affairs and Director of the Center for Functional and Restorative Neurosurgery in the Department of Neurosurgery at Penn Medicine. He has successfully obtained grant support for his research. He publishes his work in leading journals including *Neurosurgery*, *Journal of Neurosurgery* and *Journal of the American Medical Association*. Dr. Baltuch also makes important contributions as a teacher and mentor. He has directed the functional and stereotactic neurosurgery fellowship program

since 2002, and he edits an online learning resource for neurosurgical residents and practicing surgeons. In 2008, he was inducted into the Neurological Society of America, a select honorary society of neurosurgeons.

Kurt T. Barnhart, M.D.

Professor of Obstetrics and Gynecology

Dr. Barnhart is an innovative investigator who is advancing the field of reproductive endocrinology. His research focuses on the evaluation of conception and the first weeks of pregnancy and includes clinical investigations in infertility, family planning and complications of pregnancy and miscarriage. He has an impressive record of federal funding. In 2006, he was named Director of the Women's Health Clinical Research Center in the Department of Obstetrics and Gynecology. In recognition of his expertise in the conduct of high quality important clinical research, he was named Assistant Dean for Clinical Research Operations in 2008. In this role, he is responsible for facilitating and overseeing clinical research across the School of Medicine. Dr. Barnhart's scholarly contributions are numerous and noteworthy. He is on the editorial boards of *Fertility and Sterility* and *Menopausal Medicine* and is associate editor of *Pharmacoepidemiology and Drug Safety*. Dr. Barnhart was the recipient of the Leonard Berwick Memorial Teaching Award in 2006, a Penn Medicine Award of Excellence. He has served as an educator at national and international meetings, including presentations for the American College of Obstetricians and Gynecologists, and participated in a post-graduate course at the annual meeting of the American Society of Reproductive Medicine. He was selected to participate as a member of the Selection and Steering Committee for the NIH-sponsored Clinical Research/Reproductive Scientist Training Program. He is an active member of the leading national societies in his field.

Todd Barton, M.D.

Associate Professor of Clinical Medicine

Dr. Barton is an outstanding clinician and educator. He is considered an exceptionally thorough and insightful physician in the field of infectious diseases, providing consultative expertise for patients who have undergone solid organ or bone marrow transplantation. He is a premier educator of medical students, residents and fellows, and serves as the Associate Program Director for the Internal Medicine Residency Program and Co-Program Director of the combined Internal Medicine and Pediatrics training program. In recognition of his exceptional contributions to education, he has received numerous teaching awards, including the Maurice F. Attie Faculty Teaching Award in 2004, 2005 and 2008; the Penn Pearls Teaching Award in 2006; the Medical School Government Teaching Award in 2007 and the Infectious Diseases Faculty Teaching Award in 2008. He is a member of the American Society of Transplantation, the Association of Program Directors in Internal Medicine, the Infectious Diseases Society of America and the Medicine-Pediatrics Program Directors of America.

Paul Bates Ph.D.

Professor of Microbiology

Dr. Bates is an accomplished and respected virologist who has made significant contributions to the research on mechanisms of enveloped virus entry into cells. His laboratory focuses on retroviruses, Ebola virus and the Severe Acute Respiratory Syndrome associated coronavirus (SARS CoV). He identified the cellular receptor for subgroup J avian leukosis virus which provides an entry point for potential control of J virus, a major problem in the poultry industry. Dr. Bates and his team recently discovered that the Ebola virus disables tetherin, a cellular protein, that normally shuts down the spread of the virus. He has an excellent funding record. He publishes his work in high profile journals including *Journal of Virology* and *Proceedings of the National Academy of Sciences*. He has been active on numerous NIH study sections and is presently a member of the

Microbiology and Infectious Diseases Research Committee. Dr. Bates has made extensive and stellar contributions to graduate education. He has served as Chair of the Cell and Molecular Biology Graduate Group and Chair of the Microbiology and Virology Program. He presents his work nationally and internationally.

Scarlett L. Bellamy, Sc.D.

Associate Professor of Biostatistics in Biostatistics and Epidemiology at the Hospital of the University of Pennsylvania

In a short period of time, Dr. Bellamy has become recognized as a prominent statistical methodologist and collaborative researcher. She has had a significant impact on the design and execution of clinical and public health investigations, including health disparities, acute lung injury in lung transplant patients, HIV/AIDS and sleep disorders. Her methodological research focuses on clustered and group-randomized design and analysis methods, with particular emphasis on community-based and disparities studies. She has reviewed grants for the National Cancer Institute and the National Institute of Mental Health. Dr. Bellamy makes significant contributions to the graduate and doctoral programs in biostatistics and epidemiology. She is a national leader in mentoring and outreach programs designed to expose minority students to opportunities in biostatistics. For five years, she has been the organizer or co-organizer of the Fostering Diversity in Biostatistics Workshop, which has been presented at the International Biometrics Society Eastern North American Region meeting. Dr. Bellamy is active in a number of professional and scientific societies, including service on the Education Committee for the International Biometrics Society and the Strategic Initiatives Committee for the American Statistical Association and in her role as Treasurer for the Eastern North American Region of the International Biometrics Society.



Jeffrey Bergelson, M.D.

Professor of Pediatrics

Dr. Bergelson is an internationally-acclaimed pediatric infectious disease physician-scientist whose research focuses on the basic mechanisms by which viruses enter cells to initiate infection. He investigates the structure and function of virus receptors, and has a particular interest in the receptors for coxsackieviruses and adenoviruses. He has an impressive record of extramural grant funding. He has published innovative and highly original research in multiple first class scientific journals such as *Cell*, the *Journal of Virology* and the *Journal of Biological Chemistry*. He is on the editorial boards of *Molecular Medicine*, the *Journal of Virology* and *Virology*. He has served as a reviewer for the NIH, American Heart Association, the Canadian Institutes of Health and the Austrian Science Fund. Dr. Bergelson excels as an educator of medical students, graduate students, residents, fellows and postdoctoral fellows in the clinical, classroom and research settings. He was named to the Faculty Honor Roll at CHOP in 2008. He lectures nationally and internationally. He is a member of the Society for Pediatric Research, the American Association for the Advancement of Science, the Pediatric Infectious Diseases Society and the American Society for Virology.

Nathan J. Blum, M.D.

Professor of Pediatrics at The Children's Hospital of Philadelphia

Dr. Blum is an outstanding academic developmental and behavioral pediatrician whose research focuses on neurodevelopmental disabilities and behavior disorders and their management in primary care settings. He has made significant contributions to the research on the diagnosis, treatment and outcome of attention deficit hyperactivity disorder. He is the Director of the Section of Behavioral Pediatrics in the Division of Child Development, Rehabilitation and Metabolic Disease. He has been successful in securing funding for his research. He is a member of the editorial board of the *Journal of Developmental and Behavioral*

Pediatrics. Dr. Blum was named Program Director of the Developmental and Behavioral Pediatrics Fellowship in 2008. As Program Director of two federally funded training programs, Leadership Education in Neurodevelopmental and Related Disabilities (LEND) and the Leadership Education in Developmental and Behavioral Pediatrics Program, he mentors and supports training and funding for faculty and trainees across multiple disciplines. He is an active member of a number of professional and scientific societies, serving as medical editor for the board exam in developmental and behavioral pediatrics for the American Board of Pediatrics, member of the executive council of the Society for Developmental and Behavioral Pediatrics, and Program Chairperson for the Section of Developmental and Behavioral Pediatrics of the American Academy of Pediatrics.

Charles R. Bridges, M.D., D.Sc.

Professor of Surgery at Pennsylvania Hospital and the Hospital of the University of Pennsylvania

Dr. Bridges is a leading academic cardiothoracic surgeon who is recognized for his important contributions in glomerular capillary hemodynamics, the development of the skeletal muscle heart pump and laser technology for transmyocardial laser revascularization. His collaboration with Dr. Hansell Stedman has resulted in several issued and pending U.S. and foreign patents in the field of gene delivery to striated muscle. Dr. Bridges has made significant contributions to the literature in his field. He is on the editorial boards of *CTS Net*, *The Journal of Cardiac Surgery* and *Gene Therapy and Molecular Biology*. He serves as a consultant for the FDA Circulatory System Devices Panel and as a member of the NIH Bioengineering/Technology/Surgical Sciences Study Section. Dr. Bridges is an excellent teacher and mentor of undergraduate and graduate students in bioengineering, medical students, residents, fellows, clinical staff and postdoctoral fellows in his laboratory. He presents his work nationally and internationally. He is active in a number of professional and

scientific societies. He is Chair of the Workforce on Evidence Based Surgery for The Society of Thoracic Surgeons, a committee that is charged with identifying and producing guidelines for the management of specific diseases treated by cardiothoracic surgeons. He is a co-founder and past President of the Association of Black Cardiovascular and Thoracic Surgeons.

Theresa M. Busch, Ph.D.

Research Associate Professor of Radiation Oncology

Dr. Busch is an accomplished biophysicist whose independent and collaborative research focuses on photodynamic therapy for the treatment of solid malignancies. Her research interests include the tumor microenvironment, the effect of fluence rate and total fluence on oxygen consumption, and the development of rational clinical light delivery regimens. She has been successful in obtaining support for her research. Her work has been published in prominent journals, including *Clinical Cancer Research*, *Journal of Biomedical Optics*, *Cancer Research* and the *Journal of Clinical Oncology*. She has reviewed grants for the NIH, the Ontario Research Fund—Research Excellence Program, the Cooperative Grants Program of the United States Civilian Research and Development Foundation and the New Jersey State Commission on Cancer Research. Dr. Busch is an outstanding mentor for students at every level, from undergraduate to post-doctoral fellows. She has served as session chair for scientific meetings of the American Society for Photobiology, International Society on Oxygen Transport to Tissue and meetings of Optical Methods for Tumor Treatment and Detection: Mechanisms and Techniques in Photodynamic Therapy. She is a member of Radiation Research and the American Association for Cancer Research, and currently serves as an elected officer to council and chair of the mentoring committee for the American Society for Photobiology.

Russ P. Carstens, M.D.

Associate Professor of Medicine

Dr. Carstens has emerged as a leader in the field of splicing regulation—focusing on the molecular mechanisms of alternative splicing, an important process in gene expression. His work on the development of a functional screen for identifying splicing factors, described in a recent *Molecular Cell* paper, is considered seminal by experts in his field. His peer-reviewed publications are in leading journals, including *Molecular Cell*, the *Journal of Biological Chemistry* and *Molecular Cellular Biology*. In 2008, he received the Austrian Award for Bench Research from the Department of Medicine, and was recently elected to the American Society for Clinical Investigation. He has reviewed grants for the Israel Science Foundation and the United States-Israel Binational Science Foundation, and is a member of the Medical Genetics Study Section of the NIH. Dr. Carstens is an active and committed educator and mentor of medical students, graduate students, residents and fellows. He is a member of The RNA Society, the EMT International Association, the American Society for Microbiology, the American Society of Biochemistry and Molecular Biology and the American Society of Nephrology.

Jason D. Christie, M.D.

Associate Professor of Medicine

Dr. Christie is one of the leading translational investigators in acute lung injury and primary graft dysfunction in lung transplantation. He uses a multi-disciplinary approach to study the genetic influences on developing primary graft dysfunction in lung transplantation and on the development of acute lung injury. He has established and led highly collaborative teams, including the Lung Transplant Outcomes Group, a multicenter cohort study that includes high volume lung transplant centers. In 2005, he received the Robert Austrian Award for Patient Oriented Research in the School of Medicine. He publishes his work in leading journals, including the *American Journal of Transplantation*, *Chest*, *American Journal of Respiratory and Critical Care Medicine* and *Lancet*. He is an editorial



board member of *Chest* and *American Journal of Respiratory and Critical Care Medicine* and associate editor for translational research for the *Journal of Critical Care*. He has served as a grant reviewer for the International Society of Heart and Lung Transplantation Fellowship and as an ad hoc member of various NIH study sections and special emphasis panels. Dr. Christie excels at teaching in research and clinical settings as well as in the classroom. He has been recognized for his contributions with the Excellence in Teaching in Epidemiology Award in 2003 and 2007 and the Robert L. Mayock and Alfred P. Fishman Teaching Award in 2007. In 2007, he was named Associate Medical Director of the thoracic transplant registry for the United Network for Organ Sharing/International Society of Heart and Lung Transplantation.

Artur V. Cideciyan, Ph.D.

Research Professor of Ophthalmology

Dr. Cideciyan is a preeminent, highly productive, independent and collaborative investigator in retinal degeneration and vision research. Using animal models and state-of-the-art quantitative non-invasive methods that he has developed, he focuses on understanding diverse retinal disorders that affect vision and on evaluating potential therapeutic applications. He has an excellent record of federal, foundation and industry funding. Dr. Cideciyan has made substantial contributions to the literature in high impact general and specialty scientific journals, including *The Proceedings of the National Academy of Sciences*, *The New England Journal of Medicine*, *Nature Genetics*, *Human Molecular Genetics*, *Investigative Ophthalmology and Visual Science*, *Ophthalmology*, *Vision Research* and *Archives of Ophthalmology*. His work has been recognized with the Visionary Scientists Award from Hope for Vision in 2008 and the Board of Trustees Award from the Foundation for Fighting Blindness in 2009. He is a member of the editorial board of *The Open Ophthalmology Journal*, and has served on a review panel for the National Science Foundation and on NIH study sections.

Akiva S. Cohen, Ph.D.

Research Associate Professor of Pediatrics

Dr. Cohen is a nationally prominent investigator in the field of traumatic brain injury. His independent and collaborative research focuses on the cellular and molecular mechanisms that underlie the cognitive impairment associated with traumatic brain injury. In a recently completed study published in the online issue of the *Proceedings of the National Academy of Sciences*, Dr. Cohen and his team describe how dietary supplements can restore cognitive abilities in animals and may have clinical applications for humans with cognitive impairments resulting from traumatic brain injuries. He has been successful in obtaining funding for his research, and has contributed publications in leading journals, including the *Journal of Neuroscience*, *Neuroscience*, *Journal of Neurophysiology* and *Proceedings of the National Academy of Sciences*. He has served as a grant reviewer for the National Science Foundation, the Department of Defense, the NIH and CURE Epilepsy. He has lectured in national and international venues. He is a member of a number of professional and scientific societies, including the Society for Neuroscience, the National Neurotrauma Society and the International Brain Research Organization.

George Coukos, M.D., Ph.D.

Celso-Ramon Garcia Professor of Reproductive Biology

Dr. Coukos is an outstanding physician-scientist who has made seminal contributions to the field of gynecologic oncology. His basic and translational research focuses on the immune system's response to ovarian cancer and on developing therapies which enhance that response. His numerous cutting-edge contributions include the discovery of vascular endothelial proteins which control the trafficking of leukocytes into the tumor microenvironment; the link between angiogenesis and cellular immune mechanisms; the role of miRNA deregulation in ovarian cancer; and the design and translation of clinical immune therapy concepts into clinical trials. He has a history of continuous funding for his research.

Dr. Coukos publishes his work in premier journals. He has received the Sidney Kimmel Scholar Award and the Angela Carlino Ovarian Cancer Research/Care Award. He is a member of the National Cancer Institute Gynecologic Steering Committee and Ovarian Task Force. Dr. Coukos is acknowledged for contributing to the success of young investigators who have obtained positions at peer institutions as well as inspiring residents and fellows to pursue careers in gynecologic oncology and academic medicine. His national roles include membership on the Education Committee of the Society of Gynecologic Oncologists and organizer and track leader of the Cancer Education Committee on the Tumor Biology Track for the American Society of Clinical Oncology. He is Treasurer of the Board of Directors of the International Society of Biological Therapy of Cancer.

Anthony J. Dean, M.D.

Associate Professor of Emergency Medicine at the Hospital of the University of Pennsylvania

Dr. Dean is an expert in emergency medicine ultrasonography. His research focuses on the application of bedside ultrasound to the practice of emergency medicine. He has been successful in obtaining grant support. He has contributed publications in leading journals in his field, including *Journal of Emergency Medicine*, *Academic Emergency Medicine*, *American Journal of Emergency Medicine* and the *Journal of Critical Care*. Dr. Dean is an outstanding and innovative educator of medical students, residents and fellows. He designed and implemented a mandatory four-week resident rotation in ultrasonography that has now become a permanent part of the residency curriculum. In 2004, he started a dedicated one-year fellowship in bedside ultrasonography, considered one of the best in the country. He is a sought-after lecturer at multiple academic meetings. He is a member of a number of professional and scientific societies and currently serves as the as the Chairperson of the Critical Care Liaison Committee Ultrasound Section for the Society for Academic Emergency

Medicine. He participates in the formulation of policy on clinical applications, training standards and education projects in the field. He is also very involved with the large international organization, WINFOCUS: World International Network for Clinical Ultrasound, which is focused on bringing ultrasonography to the developing world.

Sanjay Dixit, M.D.

Associate Professor of Medicine at the Hospital of the University of Pennsylvania, Penn Presbyterian Medical Center and the Veterans Affairs Medical Center

Dr. Dixit is an accomplished, highly productive cardiac electrophysiologist who is an expert in the area of ablation of atrial fibrillation and ventricular tachycardia. His collaborative research is closely related to his clinical work, focusing on understanding mechanisms underlying initiation and maintenance of atrial fibrillation and on developing new strategies for curative ablation of this arrhythmia and ventricular tachycardia. He is Director of the Cardio Electrophysiology Program at the VAMC, a comprehensive full service program that has been recognized nationally by the Veterans Administration for clinical expertise and research contributions. His peer-reviewed publications are in leading specialty journals. He is a grant reviewer for the VA Stars and Stripes Health Care Network and the United Kingdom National Institutes of Health Research. He is the Chair and chief organizer of the 2010 National VA Electrophysiologists Annual Meeting. Dr. Dixit is an outstanding teacher and mentor of medical students, residents and fellows. He lectures nationally and internationally, including presentations at meetings of the Heart Rhythm Society, the American Heart Association, the American College of Cardiology, the European Society of Cardiology and the European Cardiac Arrhythmia Society. He has served on the Planning Committees for the World Congress of Cardiology and the American College of Cardiology, and is an abstract reviewer for scientific sessions of the American Heart Association, the American College of Cardiology and the Heart Rhythm Society. He



is a founding member of the Steering Committee of the National Forum of VA Medical Center Electrophysiologists. In 2009, he chaired the National VA Electrophysiologists Annual Meeting.

Roberto Dominguez, Ph.D.

Professor of Physiology

Dr. Dominguez is known internationally for his pioneering contributions to the field of cell biology and the cytoskeleton. His research uses x-ray crystallography, mutagenesis, bio-informatics and biophysical methods to focus on the structural basis of actin polymerization and its regulation by a number of actin-binding proteins. His influential publications are in prestigious journals such as *Nature*, the *Proceedings of the National Academy of Sciences*, *Structure*, *EMBO*, the *Journal of Biological Chemistry* and *Science*. He serves as an associate editor of *Cell Motility and the Cytoskeleton* and is a member of the editorial board of the *Biophysical Journal*. Since 2006, he has been a member of the Molecular Structure and Function Study Section of the NIH. Dr. Dominguez also serves as a member of the Biophysical Society, the American Crystallographic Association, the American Heart Association and The American Society for Cell Biology. He presents his work nationally and internationally.

Daniel L. Dries, M.D.

Associate Professor of Medicine at the Hospital of the University of Pennsylvania

Dr. Dries has made significant contributions to clinical and translational research in heart failure and heart transplantation. His translational and clinical investigations focus on the genetic epidemiology and molecular biology of heart failure and hypertensive heart disease, with a particular focus on natriuretic peptide physiology. He has been successful in obtaining grant support for his work. He is also a highly productive clinician who is recognized for his clinical acumen in the care of complex, critically ill patients. He publishes in leading journals, including *Circulation*, *Hypertension*, *The New England Journal of Medicine*, the *Journal of the American College of Cardiology*

and *American Heart Journal*. He is assistant editor of the *Journal of the American College of Cardiology*. Dr. Dries is an enthusiastic and dedicated educator and mentor of medical students and residents. He participates annually in Temple University's Promising Scholar Program, which provides time in a dedicated laboratory for high school scholars from disadvantaged backgrounds with demonstrated aptitude and interest in science. He is a member of the International Society for Heart and Lung Transplantation, the American College of Cardiology, the American Association for the Advancement of Science and the Heart Failure Society.

Dennis Durbin, M.D.

Professor of Pediatrics at The Children's Hospital of Philadelphia

Dr. Durbin is a national leader in the field of child passenger safety and injury control. His landmark research through the Partners for Child Passenger Safety Program, the largest child-focused motor vehicle crash research project in the U.S., has shaped government policy in child vehicle occupant safety. His contributions have been recognized with The Elaine Wodzin Young Achiever Award from the Association for the Advancement of Automotive Medicine in 2004; the Emergency Medical Services for Children Program Heroes Award for Outstanding Research from the Maternal Child Health Bureau in 2005; The Fellow Achievement Award from the American Academy of Pediatrics Section on Injury, Violence and Poison Prevention in 2007; and the Samuel Martin Health Evaluation Sciences Research Award, a Penn Medicine Award of Excellence, in 2007. Since 2004, he has served as Co-Scientific Director of The Center for Injury Research and Prevention, a comprehensive pediatric trauma research facility at CHOP. His research is funded by the National Highway Traffic Safety Administration, the Centers for Disease Control and Prevention and State Farm Insurance. His scholarly contributions are in leading journals, including *Pediatrics*, the *Journal of Trauma* and *Archives of Pediatrics and Adolescent Medicine*. Dr. Durbin is an outstanding teacher. He has received

the Jean A. Cortner Divisional Teaching Award in Emergency Pediatric Medicine 12 times and the Excellence in Teaching Epidemiology Award in the Center for Clinical Epidemiology and Biostatistics twice. He lectures nationally and internationally. He is a member of a number of professional and scientific societies, including the International Society for Child and Adolescent Injury Prevention, the Society for Academic Emergency Medicine, and the American Academy of Pediatrics.

Michal A. Elovitz, M.D.

Associate Professor of Obstetrics and Gynecology

Dr. Elovitz is an influential academic perinatologist who is internationally prominent in her field. Her research focuses on understanding the mechanisms leading to preterm birth, the mechanisms by which progestational agents might reduce the risk of preterm birth, and the molecular mechanisms by which preterm birth results in adverse neurologic development. Although the grant support designated for perinatal research is extremely limited, she has maintained a consistent and impressive level of funding. Dr. Elovitz has contributed to prominent journals in her field, including the *American Journal of Obstetrics and Gynecology*, *Obstetrics and Gynecology* and the *Journal of Maternal Fetal and Neonatal Medicine*. She is also highly regarded for her clinical acumen and specializes in high-risk obstetrics, particularly pre-term birth, preeclampsia, critical care obstetrics and care of obstetrical patients with cancer and cardiovascular disease. She is a grant reviewer for the FDA and serves as an ad hoc member of an FDA advisory committee, and has served on NIH study sections and special emphasis panels. In recognition of her commitment to teaching, Dr. Elovitz received the Faculty Teaching Award in 2003 and the Association of Professors of Gynecology and Obstetrics Teaching Award in 2005 from her department. In 2003, Dr. Elovitz was appointed as Director of the Resident Research Program and, in 2006, Director of the Maternal Fetal Medicine Fellowship Program. Under her leadership,

the fellowship program has been successfully reaccredited and the number of fellowship applicants has grown substantially. She has been elected to the Perinatal Research Society and the Society for Gynecologic Investigation.

John T. Farrar, M.D.

Associate Professor of Epidemiology in Biostatistics and Epidemiology at the Hospital of the University of Pennsylvania

Dr. Farrar is an international expert in the field of pain interventions and measurement. His independent and collaborative research focuses on the development of appropriate outcome measures for pain trials and on defining the clinical importance of those measures in pain management. He is a founding and steering committee member of the Initiative on Methods, Measurement and Pain Assessment in Clinical Trials (IMMPACT), a select group consisting of academicians and representatives from industry, the NIH and the FDA who have developed guidelines and core outcome measures for pain clinical trials. Dr. Farrar has a significant grant portfolio. He has contributed publications in top tier journals and is associate editor of *Pharmacoeconomics and Drug Safety*. He served as Chair of the Anesthetic and Life Support Drugs Advisory Board of the FDA in 2008. He is a permanent member of the Neurological, Aging and Musculoskeletal Epidemiology (NAME) study section. Dr. Farrar is a deeply committed educator and administrator within the Center for Clinical Epidemiology and Biostatistics' undergraduate and graduate teaching programs. He serves as Director of Undergraduate Medical Education in Epidemiology and Director of the MSCE program and has overseen the successful expansion of the program. He is a member of a number of professional and scientific societies, including the International Association for the Study of Pain and the American Pain Society, where he currently co-chairs the Special Interest Group.



Joel Fein, M.D.

Professor of Pediatrics at The Children's Hospital of Philadelphia

Dr. Fein is an innovative national leader in his field whose contributions have influenced the practice of pediatric emergency medicine. His research focuses on violence prevention and mental health needs of adolescents who receive care in the emergency department. He is principal investigator and Director of the Philadelphia Collaborative Violence Prevention Center, a Centers for Disease Control and Prevention Urban Partnership Academic Center of Excellence. The Center, established in 2006 and the first based in Philadelphia, conducts community-based participatory, epidemiologic and sociologic research to address violence prevention. His scholarly contributions are in leading journals in his field, including *Pediatrics*, *Pediatric Emergency Care* and *The Annals of Emergency Medicine*. Dr. Fein is an outstanding teacher and mentor of medical students, residents, fellows, nursing students, graduate students, colleagues and Robert Wood Johnson Community Scholars. He is co-director of the Pediatric Emergency Medicine Fellowship Program, considered to be one of the top programs in the country. His teaching excellence has been recognized every year since 2004 with election to the Faculty Teaching Honor Roll by the CHOP pediatric residents. He serves on committees for the American Academy of Pediatrics and on the advisory board of the National Emergency Medical Services for Children Data Analysis Resource Center.

John Christopher Feudtner, M.D., Ph.D., M.P.H.

Associate Professor of Pediatrics at The Children's Hospital of Philadelphia

Dr. Feudtner is a highly accomplished leader in the emerging field of pediatric palliative care. His research focuses on improving decision making and systems of care for patients with severe complex chronic illness, particularly those approaching the end of life, and ethical considerations relating to those decisions. He has been successful in garnering support for his research. He has published his research in leading journals, including *Pediatrics*,

the *Journal of Pediatrics*, the *American Journal of Public Health*, and the *Journal of the American Medical Association*. His book, *Bittersweet: Diabetes, Insulin, and the Transformation of Illness*, has received wide acclaim. Dr. Feudtner developed and leads the Integrated Care Service and the Pediatric Advanced Care Team at CHOP, which is recognized nationally as a model for delivery of care for palliative care programs and received the American Hospital Association's prestigious Circle of Life Award in 2008. He is associate editor of *Pharmacoepidemiology and Drug Safety*, *PC-FACS (Fast Article Critical Summaries for Clinicians in Palliative Care)* and a member of the editorial boards of *Archives of Pediatrics and Adolescent Medicine* and the *Journal of Pain and Symptom Management*. He serves as a grant reviewer for the National Library of Medicine and the Agency for Healthcare Research and Quality. In 2005, Dr. Feudtner received the David Cornfield Bedside Teaching Award from the housestaff at CHOP. He is a co-founding member of the American Academy of Pediatrics Steering Committee for the Provisional Section for Palliative and Hospice Medicine and co-founding member of the North American Pediatric Palliative Care Research Network.

Jeffrey M. Field, Ph.D.

Professor of Pharmacology

Dr. Field has made significant contributions to the research on basic processes involved in cancer progression. He studies the Ras and Pak intracellular signaling processes and chemical carcinogenesis. He has an excellent funding record. He has contributed publications in high profile journals, including the *Journal of Biological Chemistry*, *Science* and the *Proceedings of the National Academy of Sciences*. He is an ad hoc reviewer for many journals, including the *Journal of Biological Chemistry*, *Molecular and Cellular Biology*, *Proceedings of the National Academy of Sciences* and *Cancer Cell*. He has served on several scientific review panels for the NIH and Department of Defense, including chairing the Neurofibromatosis Research Panel. Dr. Field makes extensive contributions to the education of graduate students, medical students, undergraduate

students and postdoctoral fellows. He directs two graduate courses. In 2007, he developed a new program in the Center of Excellence in Environmental Science to provide high school students with classroom and laboratory experience in the environmental sciences. This program also provides Ph.D. students an organized teaching and mentoring experience. He presents his work nationally and internationally. He is a member of the American Society for Cell Biology and the American Association for Cancer Research.

Terri H. Finkel, M.D., Ph.D.

Joseph Lee Hollander Professor in Pediatric Rheumatology

Dr. Finkel has made seminal contributions to immunology and rheumatology and is an outstanding clinician, educator and administrator. Her novel research focuses on cell signaling in T-cell development, viral infection as a cause of autoimmunity and cell death in human immunodeficiency virus (HIV) infection. She has a history of continuous grant funding from federal and industry sources. Dr. Finkel has contributed numerous publications in high impact journals. Under her leadership as Chief, the Division of Rheumatology has grown from a single faculty member to one of the largest divisions of pediatric rheumatology in North America. She received "The Hero Award" from the Eastern Pennsylvania Arthritis Foundation in 2003 in recognition of her "extraordinary leadership in helping conquer arthritis." In 2004, she received the Lady Barbara Colyton Autoimmune Research Award, a Penn Medicine Award of Excellence, for "innovative discoveries and outstanding research in the area of autoimmune diseases." She is editor of the *Journal of Clinical Immunology* and the *Janeway Textbook of Immunology*. She has served on NIH study sections. Dr. Finkel is founding Director of the Accreditation Council for Graduate Medical Education (ACGME) approved Rheumatology Fellowship Program. She has received numerous teaching awards, including the American College of Rheumatology Research and Education Foundation (ACR-REF) Rheumatology Fellowship Training Award and the ACR-REF

Paula Marieux Rheumatology Fellowship Award for minority training. She is a member of a number of professional and scientific societies and was elected to the prestigious Henry Kunkel Society for Translational Immunology and the Society for Pediatric Research.

Mark Fogel, M.D.

Professor of Pediatrics at The Children's Hospital of Philadelphia

Dr. Fogel is a national and international expert in the field of cardiac imaging, particularly pediatric cardiovascular magnetic resonance imaging (MRI). His research focuses on MRI assessment of the functional single ventricle, myocardial mechanics, blood flow analysis and advancing the field of MRI. He has a successful history of research funding. Under his leadership as Director of Cardiac MRI and Cardiac MRI Research at CHOP, the program has developed into one of the premier programs of its kind in the U.S. Dr. Fogel contributes publications in leading journals in his field, including *Circulation*, the *American Journal of Cardiology* and *Cardiothoracic and Cardiovascular Surgery*. He is associate editor of *Current Cardiology Reviews* and *Congenital Heart Disease*. He is a medical imaging consultant for the Center for Drug Evaluation and Research of the FDA. Dr. Fogel makes substantial teaching contributions on the national and international level. He is on the Board of Directors of the Society for Cardiovascular Magnetic Resonance, the premier society for clinicians and researchers working in cardiovascular MRI, and serves on a number of committees for the American Heart Association and the American College of Cardiology. He has organizing roles for scientific meetings of the Society for Cardiovascular Magnetic Resonance and the North American Society for Cardiac Imaging.



Marcos G. Frank, Ph.D.

Associate Professor of Neuroscience

Dr. Frank is an innovative and productive investigator who is advancing the field of the neuroscience of sleep. His research focuses on sleep regulation and function, particularly on the complex role of sleep in cortical plasticity. He has a successful record of research funding. His publications are in leading scientific journals such as *Neuron*, the *Journal of Neuroscience*, *Sleep* and the *Proceedings of the National Academy of Sciences*. He is a member of the advisory board of *Biopsychology*, review editor for *Frontiers in Behavioral Neuroscience* and a reviewer for numerous additional journals, including *Science* and the *Journal of Neuroscience*. Dr. Frank actively participates in the education and mentoring of graduate students, medical students and postdoctoral fellows in the classroom and the laboratory. He lectures nationally and internationally. He is a member of the Society for Neuroscience and the Sleep Research Society. He was selected to serve as the Chair of the Basic Research Section of the Sleep Research Society through 2011.

Joseph J. Gallo, M.D.

Professor of Family Medicine and Community Health

Dr. Gallo is recognized internationally in the field of geriatric mental health. His interdisciplinary clinical and health services research focuses on the relationship of depression and mortality and on understanding treatment barriers in late-life depression. He has a sustained record of funding for his research. He publishes his research in prominent journals such as the *Archives of General Psychiatry*, *American Journal of Epidemiology*, *Journal of Clinical Epidemiology*, *Annals of Internal Medicine* and *Journal of the American Medical Association*. His handbook of geriatric assessment, now in its fourth edition, has been translated into a number of languages. He is associate editor of the *International Journal of Psychiatry in Medicine* and the *Journal of Mixed Methods Research*. He has served on many special emphasis and review

panels for the NIH and is currently serving on the Community Influence on Health Behavior Study Section for the NIH Challenge Grants in Health and Science Research and on the National Institute of Mental Health (NIMH) Research Core Centers Review Panel. Dr. Gallo is an outstanding mentor of graduate students, residents and junior faculty on research and statistical methods. His mentoring and research expertise are also recognized nationally. He has served annually as an NIMH Advanced Research Institute Mentor and/or NIMH Summer Research Institute Mentor. In 2008, he received the Steven Banks Memorial Award for Mentorship in Public Mental Health from the American Public Health Association.

Arupa Ganguly, Ph.D.

Professor of Genetics at the Hospital of the University of Pennsylvania

Dr. Ganguly is a leader in the field of clinical molecular genetics, a committed educator and a highly valued member of the research community within Penn. Her research focuses on the genomics of ocular tumors, particularly retinoblastoma and uveal melanoma. She has been successful in obtaining funding for her research. Dr. Ganguly directs the Genetic Diagnostic Laboratory and Referral Service, a state-of-the-art facility that provides genetic testing for inherited diseases, biomarker analysis for cancer specimens to predict prognosis and single nucleotide polymorphism genotyping to predict risk for adult-onset diseases. The facility serves as a national reference laboratory for four genetic diseases, including Hemophilia A, retinoblastoma, Hereditary Hemorrhagic Telangiectasias (HHT) and Fibrous Ossificans Dysplasia. Her publications are in premier journals, including *Nature Medicine*, the *Journal of Biological Chemistry*, *Journal of Medical Genetics*, *Ophthalmology* and *Retina*. She is a permanent member of the Cancer Biomarker Study Section of the NIH. Dr. Ganguly excels as an educator and mentor of medical students, fellows and nursing students. She serves on the advisory committee of the Molecular Genetic Technology

Program at the University of Texas M.D. Anderson Cancer Center. She participates in a number of Professional and scientific societies, including service as chair of the Genetic Testing Working Group of the Hereditary Hemorrhagic Telangiectasia Foundation International.

Edward P. Gerstenfeld, M.D.

Associate Professor of Medicine at the Hospital of the University of Pennsylvania, Penn Presbyterian Medical Center and the Veterans Affairs Medical Center

Dr. Gerstenfeld is an outstanding academic cardiologist whose clinical and translational research focuses on the mechanisms of the most common abnormal heart rhythm, atrial fibrillation, and on developing and measuring the outcome of treatment after catheter ablation procedures. In 2003, his research was recognized with an award from the American Heart Association. In 2008, he was named Director of Translational Electrophysiology Research of the Penn Cardiovascular Institute, a new program focused on collaborative research and educational opportunities in this important area. He publishes in prestigious cardiology and cardiac electrophysiology journals such as the *Journal of the American College of Cardiology*, *Circulation*, *Heart Rhythm* and *Journal of Cardiovascular Electrophysiology*. He is a member of the editorial boards of *Heart Rhythm* and the *Journal of Interventional Cardiac Electrophysiology*, and a member of the American Heart Association's Cardiac Biology II and Cardiovascular Pathology I study groups. Dr. Gerstenfeld is an active and highly regarded teacher and mentor of medical students, residents and fellows. He is a member of the American College of Cardiology, the Cardiac Electrophysiology Society and the Heart Rhythm Society. He serves as physician secretary of the Clinical Cardiac Electrophysiology Exam Writing Committee for the American Board of Internal Medicine.

Mary Beth Gibbons, Ph.D.

Associate Professor of Psychology in Psychiatry at the Hospital of the University of Pennsylvania

Dr. Gibbons is a prominent psychotherapy researcher who has made major contributions to the field of interpersonal and psychodynamic psychotherapy. She focuses on evaluating the effectiveness of interventions for depression in the community mental health system. Her research excellence was recognized with receipt of the Outstanding Early Career Achievement Award of the International Society for Psychotherapy Research in 2002. She has been successful in obtaining funding for her research. Her publications are in important journals in her field, including *Journal of Consulting and Clinical Psychology*, *Journal of Counseling Psychology* and *Psychotherapy Research*. She served as advisory editor for *Psychotherapy Research* and *Psychotherapy: Theory, Research, Practice and Training*, and is an ad hoc reviewer for the *Journal of Consulting and Clinical Psychology*. Dr. Gibbons is an active and effective teacher and mentor of psychiatric residents, postdoctoral fellows, doctoral students and research assistants. She has presented her work regionally and has been on invited panels at conferences in Ohio and Scotland. She has served as Director of the Community-Based Training Program for Interpersonally-Oriented Treatment in the Center for Psychotherapy Research since 2002. She is a member of the Society for Psychotherapy Research and a member of a scientific review committee for the National Institute on Alcohol Abuse and Alcoholism.

Jill P. Ginsberg, M.D.

Associate Professor of Pediatrics at The Children's Hospital of Philadelphia

Dr. Ginsberg is an innovative and productive pediatric hematologist/oncologist who is an authority in the field of childhood cancer survivorship. She is the Director of the Cancer Survivorship Program at CHOP. Under Dr. Ginsberg's leadership, the program has grown



considerably in the number of patients and the scope of issues addressed. Her research interests complement her clinical interests and focus on fertility preservation in children who are facing childhood cancer therapy and other survivorship issues, including mobility and psychological outcomes. She has obtained federal funding for her research. Dr. Ginsberg has contributed publications in *Cancer Research*, the *Journal of Clinical Oncology* and *Proceedings of the National Academy of Sciences*. She is a reviewer for a number of journals, including the *Journal of Clinical Oncology*, *Cancer* and *Journal of Pediatric Hematology and Oncology*. She has reviewed grants for the Lance Armstrong Foundation and Cancer Research UK. Dr. Ginsberg is an outstanding educator and mentor of medical students, residents and fellows. She presents her work nationally. She is a member of the American Society of Clinical Oncology and the Children's Oncology Group. She is also a member of the publications committee for the Childhood Cancer Survivor Study. She has moderated sessions at the International American Society of Clinical Oncology annual meetings.

David Glaser, M.D.

Associate Professor of Orthopaedic Surgery at the Hospital of the University of Pennsylvania

Dr. Glaser is an expert in the surgical and non-operative management of shoulder and elbow disorders with a particular focus on reconstructive procedures of the arthritic and post-traumatic shoulder. His research interest involves the molecular and cellular aspects of tendon and bone formation and repair, and has been supported by grants from the Orthopaedic Research and Education Foundation and the NIH. He has contributed publications in top journals in his field such as the *Journal of Shoulder and Elbow Surgery* and *Journal of Orthopaedic Research*. He has received numerous awards, including The American Society for Bone and Mineral Research Young Investigator Award in 2003, and was elected to the prestigious North American Traveling Fellowship in Orthopaedic Surgery. He was the first recipient of the Friedenber-

g Clinician-Scientist Award of The Orthopaedic Research and Education Foundation in 2004. Dr. Glaser excels as an educator and mentor of medical students, residents, fellows and bioengineering undergraduate students. In 2009, he was recognized for his outstanding clinical teaching of residents with the Jesse T. Nicholson Teaching Award. He has been Director of the Shoulder and Elbow Fellowship since 2007. He lectures nationally, and has participated in numerous courses for the American Academy of Orthopaedic Surgeons and the American Shoulder and Elbow Surgeons. In 2008, in his first year of eligibility, he was elected to membership in the American Shoulder and Elbow Surgeon, a society of national and international leaders in his field. In recognition of his leadership skills and potential, he was chosen for the "Emerging Leaders Program" of the American Orthopaedic Association.

Joshua I. Gold, Ph.D.

Associate Professor of Neuroscience

Dr. Gold is a highly creative and productive investigator who is an influential leader in the research on the neural basis of perceptual learning and decision making. He uses behavioral, physiological and computational modeling techniques in awake monkeys to study how the brain interprets sensory information to guide behavior. In addition to federal funding, he is the recipient of competitive and prestigious career development awards from the McKnight Endowment Fund for Neuroscience and the Burroughs-Wellcome Fund. His high impact publications are in premier journals such as *Nature*, the *Proceedings of the National Academy of Sciences*, *Nature Neuroscience*, the *Journal of Neuroscience* and *Neuron*. He has been recently appointed to the editorial board of the *Journal of Neurophysiology*. He has reviewed grants for the NIH, National Science Foundation, Wellcome Trust and Human Frontier Science Program. Dr. Gold excels as a teacher and mentor of undergraduate students, medical students, graduate students and postdoctoral fellows. In 2009, he was named director of the curriculum for the Neuroscience Graduate Group. He

is invited to present his work nationally and internationally, including the keynote address at a Gordon Conference at Oxford University. He is a member of the Society for Neuroscience.

Simin Goral, M.D.

Professor of Medicine at the Hospital of the University of Pennsylvania

Dr. Goral makes important contributions to the field of transplantation nephrology. Her clinical research focuses on the medical management of transplantation. Since 2007, she has served as Medical Director of the Dialysis Unit at 3701 Market Street. She is principal investigator of a number of clinical trials and industry grants. She publishes her work in notable journals in her field, including the *American Journal of Transplantation* and the *Journal of the American Society of Nephrology*. She is a member of the editorial board of *Case Reports in Medicine*, and has reviewed manuscripts for the *American Journal of Transplantation*, *Journal of the American Society of Nephrology* and *Transplantation*. She is an expert panel member for the Centers for Medicare and Medicaid Services, Federal Oversight of Transplant Programs Project. Dr. Goral is an enthusiastic educator of medical students, residents and fellows. She presents her work nationally and internationally, including meetings sponsored by the International Society of Nephrology and the European Dialysis and Transplant Association. She has been very active in the leading professional societies in transplant nephrology, the American Society of Transplantation and the American Society of Nephrology, including leadership roles on national committees. She is a member of the In-Training Executive Committee of the American Society of Neurology. She has held organizing roles in scientific meetings and will serve as a moderator for the upcoming American Transplant Congress.

Robert C. Gorman, M.D.

Professor of Surgery

Dr. Gorman is an internationally renowned physician-scientist who focuses on basic and translational research in cardiovascular disease. He uses animal models within his multidisciplinary laboratory to study ventricular remodeling after acute myocardial infarction and the mechanism of ischemic mitral insufficiency. He has served as Director of Cardiac Surgical Research since 2003. He has a successful history of garnering extramural support from federal and industry sources for his research. He is also the recipient of an Established Investigator Award from the American Heart Association. Dr. Gorman has contributed numerous publications in top tier journals in his field, including the *Annals of Thoracic Surgery*, *Circulation* and *Journal of Thoracic and Cardiovascular Surgery*. He was a member of the editorial board of the *Journal of Surgical Research* from 2003 to 2009 and is on the international advisory board of the *Journal of Cardiovascular Disease*. He has served on a number of NIH study sections and special emphasis panels, and chairs the American Heart Association Radiology and Imaging and Surgery Study Section. Dr. Gorman is an effective educator and mentor of residents and postdoctoral researchers. He lectures nationally and internationally. He is a member of a number of professional and scientific societies, and has held organizing roles in scientific meetings of the American Heart Association, the American College of Cardiology and the American College of Surgeons.

Wensheng Guo, Ph.D.

Professor of Biostatistics in Biostatistics and Epidemiology

Dr. Guo is an accomplished methodological and collaborative academic biostatistician who has made significant contributions to statistical methodology and biomedical investigation, and whose work is applicable to a broad range of biomedical problems. His methodologic research focuses on spline smoothing, time series analysis, functional models and longitudinal data analysis. His collaborative research includes hormone



secretion patterns and feedback relationship between hormones, human circadian rhythms, acute respiratory distress syndrome (ARDS) and seizure initiation and prediction using EEG data. He has an exceptional record of grant funding. Dr. Guo publishes in premier statistical journals, including the *Journal of the American Statistical Association*, *Biometrics*, *Biostatistics* and *Annals of Statistics*. In 2008, he was elected to membership in the International Statistical Institute. Dr. Guo is a dedicated educator and mentor in the graduate programs in biostatistics. He lectures nationally and internationally. He is a member of a number of professional and scientific societies, and served as Program Chair for the Biometrics Section of the American Statistical Association for the 2009 Joint Statistics Meetings.

Hakon Hakonarson, M.D.

*Associate Professor of Pediatrics**

Dr. Hakonarson is an innovative, extraordinarily productive international leader in pediatric genomics. He conducts large scale genome-wide mapping and association studies to investigate genetic factors that underlie complex medical disorders such as Type-1 diabetes, neuroblastoma, autism and Crohn's disease in children and adults. Under his direction, the Center for Applied Genomics has built the largest pediatric database in the world, which has unprecedented capacity for high-throughput genotyping, with the objective of developing new therapies. In three years, he and his colleagues have genotyped more than 55,000 children, working toward a goal of 100,000, and they have discovered genes associated with a number of major childhood diseases. He has an impressive grant portfolio. He has published his research in high impact journals, including *The New England Journal of Medicine*, *Nature*, *Nature Genetics*, *PLoS One* and *PLoS Genetics*. He received the 2009 Scripps Genomic Medicine Award: Pioneering Discoveries in Pediatric Genomics. He holds editorial positions for *Frontiers in Bioscience*, *Pharmacogenomics* and *The Clinical Respiratory Journal*. Dr. Hakonarson

is an effective mentor in the research setting. He lectures extensively nationally and internationally, giving more than 50 invited lectures in the past three years.

Richard L. Hodinka, Ph.D.

Professor of Pediatrics at The Children's Hospital of Philadelphia

Dr. Hodinka is a national and international leader in the field of diagnostic virology. His research focuses on pathogenic viruses and innovative technologies for their rapid detection in the pediatric population. Dr. Hodinka serves as Director of the Clinical Virology Laboratory at CHOP. Under his leadership, the laboratory has gained national prominence as one of the most advanced diagnostic virology laboratories in the U.S. His publications are in leading journals, including the *Proceedings of the National Academy of Sciences*, *Infection and Immunology*, the *Journal of Clinical Investigation*, *Pediatrics* and *Blood*. He has edited the *Clinical Virology Manual*, viewed as an essential textbook for virology laboratories. He is editor of the *Journal of Clinical and Vaccine Immunology* and is a member of the editorial board of the *Journal of Clinical Virology*. He has served on many study sections for the NIH, The American Institute for Biological Sciences and the Centers for Disease Control and Prevention. Dr. Hodinka is an outstanding educator and mentor of medical students, postdoctoral fellows, residents, fellows and colleagues. His teaching excellence has been recognized with Distinguished Teaching Awards in 2000 and 2003 from the medical students and the Dean's Award for Excellence in Basic Science Teaching in 2001. Since 1994, he has served as co-chair and organizer of the Annual Clinical Virology Symposium. He received the Diagnostic Virology Award from the Pan American Society for Clinical Virology in 2007 for contributions that have had a major impact on the field of clinical virology. He is a Fellow in the American Academy of Microbiology.

Rebecca Ichord, M.D.

Associate Professor of Neurology at The Children's Hospital of Philadelphia

Dr. Ichord is an expert in pediatric neurology, particularly pediatric stroke. Her clinical research focuses on validation of stroke scales for clinical trials, descriptions of unusual syndromes and behavioral deficits in children with stroke and analysis of current imaging technology in stroke. She is Director of CHOP's Pediatric Stroke Program, a nationally prominent multidisciplinary program providing comprehensive assessment and treatment for children and infants who suffer from strokes. In 2008, she received CHOP's Master Clinician Award. She has been successful in garnering federal funding support for her research. She contributes publications in leading journals, including *Neurology*, *Pediatric Critical Care Medicine* and *Lancet Neurology*. She is a reviewer for numerous journals, including *Stroke*, the *Annals of Neurology* and the *Journal of Neurotrauma*. Dr. Ichord is a highly regarded educator and mentor of medical students, residents and fellows. She founded the first pediatric stroke fellowship program in the U.S. She is a founding member of the International Pediatric Stroke Study Group and a member of its executive committee. She is also a member of the American Heart Association Stroke Council, the American Academy of Neurology and the Child Neurology Society.

Frederick Bradley Johnson, M.D., Ph.D.

Associate Professor of Pathology and Laboratory Medicine

Dr. Johnson is an internationally acclaimed physician-scientist who is having a major impact on the field of aging and cancer. His innovative independent and highly collaborative research uses a unique approach in combining yeast and mouse models to focus on telomeres, G-quadruplexes and chromatin, and their roles in the pathogenesis of age-related diseases including cancer. He has been successful in securing support for his research. He was the recipient of the prestigious Paul Beeson Scholar in Aging Research Award in 2002. He has published in preeminent journals,

including the *Journal of Biological Chemistry*, *EMBO*, *Molecular and Cellular Biology*, *Aging Cell* and *PLoS Biology*. His clinical accomplishments include leading the implementation of HLA sequencing technology, a critical initiative for donor search and selection for unrelated bone marrow/hematopoietic cell transplantation. He is associate editor of *Mechanisms of Aging and Development* and supervising editor of *Aging Cell*. He serves on study sections and special emphasis panels for the NIH, and is a grant reviewer for private agencies, including the American Federation for Aging Research. Dr. Johnson is an outstanding educator and mentor of medical students, graduate students, residents and post-doctoral fellows. He initiated and co-founded an elective medical student course that explores advances in basic and clinical knowledge related to aging. In 2006, he received the Peter C. Nowell Teaching Award. He lectures nationally and internationally, including multiple invitations to present at Cold Spring Harbor meetings on the Molecular Genetics of Aging.

Mark Johnson, M.D.

Professor of Surgery at The Children's Hospital of Philadelphia

Dr. Johnson is an outstanding academic fetal medicine specialist whose research focuses on the investigation and management of various fetal abnormalities. He has advanced the field in the development of prenatal therapies for twin-to-twin transfusion, lower urinary tract obstruction, and spina bifida. Since 2008, he has served as Medical Director of the Special Delivery Unit at CHOP. He has made numerous and influential contributions to the literature in his field. He is on the editorial boards of *Fetal Diagnosis and Therapy* and *Gynecology, Obstetrics and Reproductive Medicine*. Dr. Johnson excels as an educator and mentor of medical students, residents and fellows. He participates in and has served as course director for many CME courses. He lectures nationally and internationally. He is a member of a number of professional and scientific societies, including the American College of Medical Genetics, the International Fetal

*Faculty appointment has been converted to tenure.



Medicine and Surgery Society and the American Gynecologic and Obstetrical Association. He has been instrumental in establishing the American Fetal Therapy Network North American Fetal Therapy Network, an organization that meets regularly to promote multi-institutional studies of fetal treatment. Since its formation, he has served as Chair of the Executive Committee and Executive Director and Chair of the Board of Directors.

Mark L. Kahn, M.D.

Professor of Medicine

Dr. Kahn is an accomplished molecular cardiologist who makes important contributions in the fields of vascular development and cell signaling. His research focuses on signaling pathways in hematopoietic and endothelial cells. He has a successful record of external funding. His scholarly contributions are in prominent journals, including *Nature Medicine*, the *Journal of Biological Chemistry*, *Blood*, *Genes and Development* and *Proceedings of the National Academy of Sciences*. He is an associate editor of the *Journal of Clinical Investigation*. He serves on a number of NIH study sections, and has reviewed grants for the Wellcome Trust. In 2008, he was elected to membership in the Association of American Physicians. Dr. Kahn is a highly regarded educator of graduate students, residents and fellows. He is a member of a number of professional and scientific societies, including the American Society for Clinical Investigation, the American Association for the Advancement of Science and the American Society of Hematology. He has held organizing roles for American Heart Association Scientific Sessions. He presents his work nationally and internationally, including Gordon Research Conferences.

Peter A. Kanetsky, Ph.D.

Associate Professor of Epidemiology in Biostatistics and Epidemiology at the Hospital of the University of Pennsylvania

Dr. Kanetsky is a highly productive expert in genetic epidemiology. His independent and interdisciplinary research combines biological and

biochemical pathway information, epidemiologic study design, laboratory methods for genotype analysis and statistical analysis to focus on genetic susceptibility genes for cancer, particularly melanoma and testicular germ cell cancers. He has been successful in garnering support for his research, and is involved in several national and international research collaborations. He has contributed numerous publications in high impact journals such as *Cancer Research*, the *American Journal of Human Genetics* and *Nature Genetics*. He is a member of the editorial board of *Cancer Epidemiology Biomarkers and Prevention*. He has participated in numerous NIH study sections and special emphasis panels, and served as a reviewer for the Research Cancer Development Fellowship for the Wellcome Trust. Dr. Kanetsky makes substantial contributions to education at the undergraduate and graduate levels in the Schools of Medicine, Nursing and Arts and Sciences as an instructor, mentor and course director. He created a novel and highly acclaimed course, "Fundamentals of Epidemiology" designed specifically for Penn undergraduate students. He presents his work nationally and internationally. He is a member of a number of professional and scientific societies, and has chaired the Education Committee for annual meetings of the American Society of Preventive Oncology and is the Program Co-Chair for the 2010 meeting.

James J. Kearney, M.D.

Associate Professor of Clinical Otorhinolaryngology: Head and Neck Surgery

Dr. Kearney makes excellent contributions as clinician, teacher and administrator. He is a highly productive and innovative otolaryngologist who has developed a special focus on thyroid tumors. He was the first in the region to develop an office-based diagnostic program with ultrasound guided fine needle tumor biopsies, and he integrated a team of pathologists and endocrinologists for clinical based diagnostic evaluations of thyroid nodules and tumors. He serves as the Chief of the Otolaryngology Service at Pennsylvania Hospital and Vice President of the Medical Staff. He is a highly respected and committed teacher and mentor who makes substantial contributions

to the education of medical students, graduate students and allied health professionals. He has been Associate Director of the Residency Program since 2003.

Tejvir S. Khurana, M.D., Ph.D.

Professor of Physiology

Dr. Khurana is an internationally prominent investigator who is advancing the field of neuromuscular diseases. He has made important contributions to understanding the pathogenesis and potential therapies of the muscular dystrophies and skeletal muscle function. His creative investigations focus on the extraocular muscle and the proteins myostatin and utrophin. He is also recognized as an excellent and generous collaborator. He was elected to membership in the American Society of Clinical Investigation in 2007. He has a record of continuous grant funding. His publications are in leading journals, including *Nature*, the *Proceedings of the National Academy of Sciences* and the *American Journal of Physiology*. He is a member of the editorial boards of the *Journal of Genetic and Molecular Medicine* and *Molecular Medicine Reports*, and has served on numerous NIH study sections. Dr. Khurana is a dedicated and effective educator and mentor of medical students, graduate students, veterinary students and postdoctoral fellows. He is a member of the Association for Research in Vision and Ophthalmology, the World Muscle Society and the American Physiological Society.

Sharon L. Kolasinski, M.D.

Professor of Clinical Medicine

Dr. Kolasinski is an outstanding clinician with expertise in the most complex rheumatologic diseases as well as a committed educator and a respected administrator. In her roles as the Chief of the Clinical Service and Interim Division Director, she has developed new clinical services and coordinated clinical activities between HUP, Penn Presbyterian Medical Center and the VAMC, and supports the recruitment and development of faculty. Her interest in complementary and alternative medicine has

led to numerous invitations to lecture locally and nationally. She is a reviewer for a number of journals, including the *Journal of Clinical Rheumatology* and *Arthritis and Rheumatism*. Dr. Kolasinski is a dedicated and extremely effective educator and mentor for trainees at all levels at Penn, and has been Director of the Rheumatology Fellowship Program since 1999. She has also made important contributions to rheumatology education at the national level through her many roles with the American College of Rheumatology. She is a clinical preceptor for medical students and has received the Clinical Preceptor Award five times. She has developed and directs a regional first year Rheumatology Fellows Conference that has become a national model. Dr. Kolasinski has been the recipient of the prestigious American College of Rheumatology Clinician Scholar Educator Award, which supports the development of new and innovative educational programs. She was selected to serve as one of the question writers for the newly formed American College of Rheumatology/National Board of Medical Examiners Rheumatology in-training examination.

Thomas F. Kolon, M.D.

Associate Professor of Urology in Surgery at The Children's Hospital of Philadelphia

Dr. Kolon excels as an academic pediatric urologist. He is widely known as an expert in intersex and related disorders of sexual development, cryptorchidism, varicocele and testicular growth. His research focuses on the treatment and molecular biology of cryptorchidism and intersex. He has been successful in garnering funding for his research. He has published in leading journals in his field such as the *Journal of Urology*, *Journal of Pediatric Urology* and *Human Reproduction*. He is a reviewer for numerous journals, including the *Journal of Pediatric Urology*, *Journal of Andrology* and *Urology*. Dr. Kolon is an outstanding teacher and mentor of medical students, residents and fellows. In 2004, he was named the Associate Program Director for Pediatric Urology at CHOP and has directed the program since 2007. He presents his



work nationally and internationally. He is an active member of a number of professional and scientific societies, and has held organizing roles in scientific meetings for the American Academy of Pediatrics and the Society for Pediatric Urology. From 2006 through 2007, he served as President of the Society for Fetal Surgery, and is currently the Director of Research for the American Association of Pediatric Urologists.

Laura M. Kosseim, M.D.

Associate Professor of Clinical Medicine

Dr. Kosseim is an accomplished, highly productive clinician in general internal medicine and a committed educator. She has developed areas of expertise in women's health and bariatric medicine, and is a "go-to" resource in her own department as well as an important member of the multidisciplinary bariatric surgery team. Her clinical and interpersonal skills make her an extremely sought after physician. Dr. Kosseim has been an outstanding educator and role model for trainees. She is a core faculty member in the primary care residency program. She taught in an American Board of Internal Medicine review course in 2008, and lectured at the Society of General Internal Medicine annual meeting in 2010. She is a reviewer for the *Annals of Internal Medicine*.

John C. Kucharczuk, M.D.

Associate Professor of Surgery at the Hospital of the University of Pennsylvania, Penn Presbyterian Medical Center and Pennsylvania Hospital

Dr. Kucharczuk is a nationally prominent cardiothoracic surgeon who specializes in the surgical care of patients with complex esophageal problems and patients with thoracic malignancies. His research focuses on advances in thoracic surgical techniques, clinical trials of cancer immunotherapeutic agents and adjuvant chemotherapy, and proteomic analysis of serum samples for detection of non-small cell lung cancer. Dr. Kucharczuk has contributed publications in high impact journals in his field, including the

Journal of Thoracic and Cardiovascular Surgery, Annals of Surgery, and Annals of Thoracic Surgery. He has served on two NIH study sections. Dr. Kucharczuk is an effective and enthusiastic educator of medical students, residents and fellows. He serves as Educational Coordinator for the Division of Thoracic Surgery. He is involved at the national level in the development of measurable and fair outcome measures in thoracic surgery, and was appointed the Society of Thoracic Surgeons (STS) representative for the General Thoracic Surgery Quality Outcomes Measures in 2006. He serves as Chair of the STS Database Participation Task Force of the General Thoracic National Database Committee, an important quality improvement initiative.

James D. Lewis, M.D., M.S.C.E.

Professor of Medicine

Dr. Lewis is an innovative gastroenterology epidemiologist who is a world leader in the fields of colorectal cancer, inflammatory bowel disease (IBD), and pharmacoepidemiology. He has a history of continuous grant support from federal agencies, industry and private foundations. He was elected to the American Society of Clinical Investigation in 2010. He publishes in premier journals in the fields of gastroenterology and epidemiology, including *Pharmacoepidemiology and Drug Safety, Gastroenterology* and the *Journal of Clinical Gastroenterology*. He is associate editor of *Gastroenterology* and *Pharmacoepidemiology and Drug Safety*. He has reviewed grants for the NIH, the Crohn's and Colitis Foundation of America, the American Gastroenterological Association and the Broad Medical Research Foundation. Dr. Lewis is an outstanding teacher and mentor of medical students, residents, fellows and masters and doctoral students in biostatistics and epidemiology. His contributions have been recognized with the Dr. Sidney Cohen Teaching Award for Gastroenterology Faculty in 2008 and the Department of Medicine Donald B. Martin Teaching Award in 2009. Dr. Lewis is active in a number of national and international professional and scientific societies. He has been a leader in the American Gastroenterological Association and is

a member of the Clinical Practice and Quality Management Committee. He is Chair-Elect of the National Scientific Advisory Committee of the Crohn's and Colitis Foundation of America—the first clinical investigator selected for this role—and is Chair of the Education Committee of the International Society for Pharmacoepidemiology.

Janet Lioy, M.D.

Associate Professor of Clinical Pediatrics

Dr. Lioy excels as a physician, educator and administrator. She is a gifted clinical neonatologist who is known for her skillful and sensitive management of the most complex ill infants. She developed and leads the Neonatal Outreach Program. In this role, she is responsible for active and on-going communications with community clinicians regarding the care of the high-risk patients referred to the CHOP Neonatal Intensive Care Unit and for conducting educational programs for referring physicians and other health care providers. She has been involved at all levels of pediatric and neonatal education, from medical students through pediatric residents and neonatal fellows at both bedside and didactic settings. She received the Istvan Seri Faculty Teaching Award in the division of neonatology in 2004 and the CHOP SuPEERior Person Award in 2005. In recognition of her activities in the area of community outreach, she received the Mead Johnson Academic Clinician Community Outreach Award in 2008.

Judith A. Long, M.D.

Associate Professor of Medicine at the Veterans Affairs Medical Center

Dr. Long is an accomplished health services researcher who focuses on social determinants of health and health care, particularly as they pertain to socioeconomic and racial disparities. Her research focuses on issues of environment, access and race in diabetes care as well as disparities in serious mental illness and joint replacement. She has published in notable journals such as *The American Journal of Public Health, Journal of General Internal Medicine, Annals of Internal*

Medicine and The American Journal of Obstetrics and Gynecology. Dr. Long makes important contributions to education and mentorship through her leadership roles as Associate Director of the Robert Wood Johnson Clinical Scholars Program, Director of the Masters of Science in Health Policy Program and core faculty and member of the executive committee of the Center for Health Equity Research and Promotion at the VA. She is an excellent educator of medical students and graduate students. She presents her work nationally. She represents the VA for the Federal Collaboration for Health Disparities Research, a government-wide effort to organize disparities research across numerous research agencies. She is an active member of the Society of General Internal Medicine, including participating in numerous task forces and serving as Co-Chair for the 2010 national meeting.

Kathleen Loomes, M.D.

Associate Professor of Pediatrics at The Children's Hospital of Philadelphia

Dr. Loomes is a nationally prominent pediatric gastroenterologist who is an expert in the genetics of liver growth and development. Her clinical and laboratory research focuses on the role of the Notch signaling pathway in liver and bile duct development and on the pathogenesis of Alagille Syndrome, an inherited disorder that affects the liver, heart and other systems of the body. She has been successful in obtaining federal funding for her research, and has published her work in leading journals in her field. She has served on NIH committees, including the Hepatobiliary Pathophysiology Study Section, the Pediatric Loan Repayment Program and the RC1 Challenge Grant Program. Dr. Loomes is a dedicated and effective educator and mentor of medical students, residents and fellows. From 2003 through 2008, she served as co-director of the highly successful pediatric physical examination course. She was named Director of the GI Research Fellows Training Program at CHOP in 2007. She is a member of both the Pediatric Interest Group Steering Committee of the American Association for the Study of Liver Diseases, and is a member



of the Hepatology Committee of the North American Society for Pediatric Gastroenterology, Hepatology, and Nutrition (NASPGHAN). She has held organizing roles in the annual meetings of the Association for the North American Society for Pediatric Gastroenterology, Hepatology and Nutrition and the American Association for the Study of Liver Diseases. In 2012, she will serve as the NASPGHAN representative to the Hepatology Program Committee at the World Congress of Pediatric Gastroenterology.

Selina Luger, M.D.

Professor of Medicine at the Hospital of the University of Pennsylvania

Dr. Luger is a leader in clinical hematologic-malignancies care and research. She has served as Director of the Leukemia Program and Director of the Outpatient Practice, Stem Cell Transplant and Hematological Malignancies at HUP since 1999. She is an outstanding clinical investigator who has participated in the development and execution of innovative multi-institution clinical trials. She is recognized particularly for her contributions within the National Cancer Institute-sponsored Eastern Cooperative Oncology Group and the British National Cancer Research Institute, which have led to changes in the standards of care for acute and chronic leukemias. Her peers honored her achievements with the Leukemia and Lymphoma Society Hope Award for Medical Achievement in 2004. She has published her findings in high profile journals, including *Blood*, *Nature Medicine*, *American Journal of Hematology* and *Cancer*. She is editor of the Leukemia Section of *OncoLink*. Dr. Luger excels as an educator and mentor of medical students, residents and fellows. She presents her work nationally and internationally. She is a member of a number of national and international professional and scientific societies, including the Center for the Internal Blood and Marrow Transplant Research, the American Society of Clinical Oncology and the American Society of Hematology, and has held organizing roles in annual meetings for the American Society of Hematology.

Scott A. Mackler, M.D., Ph.D.

Professor of Medicine

Dr. Mackler makes important contributions to the field of molecular neurobiology. His research focuses on the molecular mechanisms underlying addictive disorders, particularly cocaine addiction and cocaine sensitization. His identification of the novel protein NAC1 and its influence in regulating behavioral responses to cocaine has had a major impact on the field of addiction research. Dr. Mackler has secured federal funding for his research. His publications are in leading journals, including the *Journal of Neuroscience*, *Journal of Neurochemistry*, and *Pharmacology, Biochemistry and Behavior*. In 2004, he received the regional Veterans Affairs Stars and Stripes Award for outstanding basic science research. Dr. Mackler is highly regarded as an inspirational and dedicated educator and mentor of medical students, physical therapy students and postdoctoral fellows.

Najjia N. Mahmoud, M.D.

Associate Professor of Surgery at Pennsylvania Hospital and the Hospital of the University of Pennsylvania

Dr. Mahmoud is a nationally prominent, highly productive colon and rectal surgeon who focuses on the surgical evaluation and treatment of patients with complex colorectal and pelvic floor disorders. She established a Pelvic Floor Laboratory and Program with colleagues in urogynecology and urology for a combined clinical and education service. She also established a multidisciplinary colorectal cancer meeting with colleagues in Radiation Oncology and Medicine to coordinate the care of patients with lower gastrointestinal cancer. Her collaborative research focuses on the use of chemotherapeutic and chemopreventive strategies for colon cancer and outcome analysis in the treatment of colon and rectal cancer. She has contributed publications in specialty journals in her field, including *Diseases of the Colon and Rectum*, *Gastroenterology* and *Cancer Research*. She is associate editor for the *Diseases of the Colon and Rectum*, and a grant reviewer for the American Society of Colon and Rectal Surgery Research Foundation. Dr. Mahmoud

is a committed educator of medical students, residents and fellows. She has lectured nationally and internationally, including presentations at the meetings of the American Society of Colon and Rectal Surgeons and the American College of Obstetrics and Gynecology. She has been an active participant in committees for the American Society of Colon and Rectal Surgeons. She has served on the program committee for the annual meetings of the American Society of Colon and Rectal Surgery and, in 2008, served as Program Co-Chair.

David S. Mandell, Sc.D.

Associate Professor of Mental Health Services Research in Psychiatry

Dr. Mandell is a highly productive and influential inter-disciplinary health services researcher who focuses on the clinical, economic, political and social forces that impact the financing and delivery of services to children with autism, and he has contributed to state and federal policy in this area. He is Associate Director of the Center for Autism Research at CHOP, a collaborative effort between CHOP and Penn that focuses on developmental, neurobiological and genetic mechanisms of autism. His research is supported by federal funding as well as grants from the Institute for Education Sciences and the Federal Maternal Child Health Bureau, Health Resources and Services Administration and the Pennsylvania Department of Welfare. His publications are in prominent journals in his field, including *Autism*, the *Journal of Autism and Developmental Disorders*, *American Journal of Public Health* and *Pediatrics*. He is associate editor of *Autism: The International Journal of Research and Practice*. He has participated in special emphasis panels for the National Institute of Mental Health and the Centers for Disease Control and Prevention. Dr. Mandell is a highly regarded educator and advisor of undergraduate and graduate students throughout Penn as well as psychiatry residents and pediatric fellows. He is active in the American Public Health Association and currently serves as Mental Health Section Chair. He has served on the Interagency Autism Coordinating Council

Services Committee Expert Working Group for the Department of Health and Human Services and is a member of the Strategic Planning Workgroup. He is also a member of the Autism Treatment Network Steering Committee. He has served as conference chair for a number of different conferences, and was selected to co-chair the International Meeting for Autism Research in 2010.

Kenneth B. Margulies, M.D.

Professor of Medicine at the Hospital of the University of Pennsylvania

Dr. Margulies is a nationally recognized leader in translational heart failure research. He is the Director of the Penn Heart Failure and Transplant Research Program. Using animal models and human heart specimens from the tissue bank that he developed, he focuses on the mechanisms of cardiac recovery and regeneration. He has an impressive history of securing external funding for his research. Dr. Margulies has contributed numerous and noteworthy publications. He was elected to the American Society of Clinical Investigation in 2006. In 2008, he became a member of the National Heart, Lung, and Blood Institute Working Group on Clinical Use of Ventricular Assisted Devices. Dr. Margulies is an active and effective educator and mentor of medical students, residents, fellows, graduate students and postdoctoral fellows in the classroom, clinical and laboratory settings. He developed a new course for fourth year medical students. He has mentored high school students in his laboratory as part of an NIH funded Minority Access to Research Program. He presents his work nationally and internationally. He participates in a number of professional and scientific societies, and has held organizing roles in scientific meetings for the American College of Cardiology, Heart Failure Society of America and the International Society of Heart and Lung Transplantation.



John M. Maris, M.D.

Professor of Pediatrics

Dr. Maris has made seminal contributions to the field of pediatric cancer. His research focuses on understanding the molecular pathogenesis of neuroblastoma and on developing innovative clinical approaches to treatment of this disease through the national oncology groups where he holds administrative appointments, including Chair of the Children's Oncology Group Neuroblastoma Disease Committee and Chair of the New Approaches to Neuroblastoma Therapy Study Committee. His work led to the first clinical trial of a molecularly targeted therapy for neuroblastoma. His research has been continuously supported by external funding. He has contributed substantially to the scholarship in his field. He is on the editorial boards of *Pediatric Blood and Cancer* and the *Journal of Clinical Investigation*. He is a grant reviewer for many national and international organizations and, in 2008, was appointed as a charter member of the NIH/NCI Cancer Genetics Study Section. In 2007, he was elected to the American Society of Clinical Investigation and he received the Oski Award from the American Society of Pediatric Hematology/Oncology. Dr. Maris' contributions to teaching in the research and clinical settings have been equally impressive. He was Program Director of the CHOP Hematology/Oncology Fellowship from 2001 through 2008. He received the 2009 Leonard Berwick Memorial Teaching Award, a Penn Medicine Award of Excellence. He frequently lectures nationally and internationally. He had held organizing roles in a number of scientific meetings.

Vadim A. Markel, Ph.D.

Associate Professor of Radiology

Dr. Markel is an outstanding optical physicist who is recognized internationally for advances he has made to biomedical imaging and theoretical optical physics. His research focuses on medical imaging, optics of nano-structured materials and quantum optics. He has been funded by federal agencies. His publications are in leading journals in his field, including *Physical Review Letters*, *Optic*

Letters and *Optics Express*. He is on the editorial board of *The Open Condensed Matter Physics Journal*, and is a reviewer for numerous additional journals, including the *Journal of the Optical Society of America*, *Physical Review Letters*, *Journal of Biomedical Optics* and *Optical Engineering*. Dr. Markel is a dedicated and effective teacher and mentor of undergraduate bioengineering students, doctoral candidates and post-doctoral fellows. He presents his work nationally and internationally. He is a member of the Optical Society of America. He is regularly invited to chair and organize conference sessions on radiative transport at the annual Progress in Electromagnetics Research Symposium.

Michael S. Marks, Ph.D.

Professor of Pathology and Laboratory Medicine

Dr. Marks is an innovative and highly productive cell biologist who has made important contributions to the understanding of the construction of the melanosome, a member of the lysosome-related organelle family. His research has been continuously supported with funding from the NIH. Many of his publications have been highly cited and are in premier journals such as *Molecular Biology of the Cell*, the *Journal of Biological Chemistry*, the *Journal of Cell Biology*, *Proceedings of the National Academy of Sciences* and *Nature*. In recognition of his stature in the field, he was selected as the Aaron B. Lerner lecturer of the Pan-American Society for Pigment Cell Research in 2009. He is on the editorial board of *Pigment Cell Research*, a member of the board of reviewing editors of *Molecular Biology of the Cell*, and an associate editor for *Traffic*. Dr. Marks is an outstanding and strongly committed contributor to graduate education. He has played key leadership roles within the Cell and Molecular Biology Graduate Group. He is a member of a number of professional and scientific societies, and serves as a council member for the Pan-American Society for Pigment Cell Research. He will chair the Gordon Research Conference on Lysosomes and Endocytosis, the most important meeting in his field, in 2012.

Joel Maslow, M.D., Ph.D.

Professor of Medicine at the Veterans Affairs Medical Center

Dr. Maslow is a nationally prominent expert in the field of infectious diseases. His research interests include mycobacterial diseases in humans and animals with a particular focus on the molecular epidemiology and pathogenesis of infections caused by *Escherichia coli* and *Mycobacterium avium*. In 2002, he was named Associate Chief of Staff for Research and Associate Dean for Research at the VA. He has successfully led the development and expansion of the VA research program, including an increase in funding, renovations of laboratories, creation of a clinical research center and replacement of basic instrumentation and equipment. He has contributed peer-reviewed publications in notable journals such as the *Journal of Clinical Microbiology*, *Infection Control and Hospital Epidemiology* and *Journal of Infectious Diseases*. He is on the editorial advisory board of the *Journal of Infectious Diseases*, and has served on a number of NIH review panels. Dr. Maslow is a skilled educator and mentor of medical students, graduate students and fellows. He is a member of a number of professional and scientific societies. He serves as a consultant to the U.S. Department of Agriculture, the Occupational Safety and Health Administration, and multiple zoos, circuses and wildlife sanctuaries, nationally and internationally, based on his expertise in the treatment of tuberculosis and other mycobacterial infections in animals, particularly elephants.

Michael Lee McGarvey, M.D.

Associate Professor of Neurology at the Hospital of the University of Pennsylvania

Dr. McGarvey is an excellent clinician, administrator, teacher and clinical investigator. He is a nationally renowned neurologist with expertise in intraoperative monitoring and management of patients with perioperative neurologic complications. In his role as Director of Intraoperative Monitoring, he performs or supervises approximately 500 intraoperative monitoring studies each year. His clinical interest

complements his research, which focuses on spinal cord complications of thoracic and aortic surgery and biomarkers for spinal chord ischemia. He participates in numerous multi-center clinical trials funded by federal, private and commercial sources. He has contributed publications in leading journals, including *The Annals of Thoracic Surgery*, *Neurosurgery*, and the *Journal of Neuroimaging*. He is a reviewer for *The Annals of Thoracic Surgery* and the *Canadian Journal of Neurological Sciences*. He has served as a reviewer for the Department of Defense Traumatic Brain Injury Research Program. Dr. McGarvey excels as a teacher and mentor of medical students, residents and fellows. He is an active member of the American Clinical Neurophysiology Society and participates in their CME committee and their website case presentation committee. He presents his work locally, regionally and nationally.

Cindy M. McGrath, M.D.

Associate Professor of Clinical Pathology and Laboratory Medicine

Dr. McGrath is a highly productive pathologist with expertise in GYN cytopathology, general cytopathology and surgical pathology. She is a resource for issues including cyto-histopathologic correlation, education and discussion of new classifications within GYN cytopathology, relevant clinical trials and recent changes in technology and clinical management guidelines. She is a highly regarded expert in quality assurance, and was the recipient of a UPHS Quality and Safety Award in 2007. Dr. McGrath is an outstanding and innovative educator who has extensive teaching responsibilities with regard to medical students, residents and fellows. She has received numerous teaching awards, including The Kevin E. Salhany Award for Excellence in Clinical Teaching in 2003, Best Overall Instructor of Pathology in 2008 and The Peter C. Nowell Teaching Award in 2009. She is a member of the United States and Canadian Academy of Pathology, the American Society of Clinical Pathology and the Papanicolaou Society, a national society of academic cytopathologists, for which she serves as a member of the Quality Assurance Task Force.



Joshua P. Metlay, M.D., Ph.D.

Professor of Medicine

Dr. Metlay is a leading investigator in health outcomes research who uses a multidisciplinary approach to study significant clinical and policy problems, including the factors that influence respiratory tract infections and the use of antibiotics in acute care settings. He developed clinical practice guidelines for the treatment of patients with community acquired pneumonia and other lower respiratory infections. In 2008, he was appointed Senior Fellow in the Center for Public Health Initiatives. In 2009, he was named Chief of the Section of Hospital Medicine in the Department of Medicine, selected as a Penn Fellow, and received the Samuel Martin Health Evaluation Sciences Research Award, a Penn Medicine Award of Excellence. He has a history of continuous grant funding. He has made numerous and influential scholarly contributions in prestigious journals, including the *Journal of the American Medical Association*, *Annals of Internal Medicine* and *Journal of Clinical Epidemiology*. He has served on numerous study sections for the NIH and advisory panels for the FDA, the National Committee for Quality Assurance and the Centers for Disease Control and Prevention. Dr. Metlay is a gifted educator, mentor and leader of educational programs at Penn. He has received numerous teaching awards, including The Christian F. and Mary F. Lindback Award for Distinguished Teaching in 2008. He is the Program Leader for the prestigious Doris Duke Clinical Research Fellowship Program, and co-directs the Robert Wood Johnson Clinical Scholars Program, considered the leading health services research training program in the nation. He co-developed a new Masters of Science in Health Policy Research degree program. He lectures nationally and internationally, including presentations at meetings of the Centers for Disease Control, FDA and Agency for Healthcare Research and Quality. He is a member of a number of professional and scientific societies. He is a Fellow of the American College of Epidemiology and the Infectious Disease Society of America.

Bonnie L. Milas, M.D.

Associate Professor of Clinical Anesthesiology and Critical Care

Dr. Milas has distinguished herself as an outstanding clinician and educator. She is highly regarded for her clinical expertise in the fields of cardiothoracic anesthesia, critical care medicine and intraoperative echocardiography. She is an active and effective educator of medical students, anesthesiology and surgery residents and fellows. Her teaching contributions have been recognized with receipt of the Teacher of the Year Award in 2001 and 2009 in the Department of Anesthesiology and Critical Care and the Medical Student Teaching Award for basic science instruction in 2007. She has presented lectures nationally at annual meetings of the Society of Cardiovascular Anesthesiologists. She is a reviewer for numerous journals, including the *Journal of Cardiothoracic and Vascular Anesthesia* and *Anesthesia and Analgesia*.

Sarah E. Millar, Ph.D.

Professor of Dermatology

Dr. Millar is an eminent developmental biologist who has made important and original contributions to understanding the molecular mechanisms that regulate embryonic development and postnatal growth and regeneration of ectodermal appendages such as hair follicles, mammary glands, teeth and taste buds. Her work has potential therapeutic applications for certain tumors, as well as for tissue engineering of hair follicles and teeth in case of loss or absence due to disease, decay or congenital defects. She has served as Director of Research for the Department of Dermatology since 2005. She has been successful in securing and maintaining extramural funding for her research. Dr. Millar has published her work in premier journals, including *Science*, *Developmental Biology*, *Nature*, the *Journal of Investigative Dermatology* and *Nature Genetics*. She is on the editorial advisory board of *Experimental Dermatology* and the editorial board of *Developmental Cell*. She has served on many NIH study sections and is a permanent member of the Arthritis, Connective Tissue and

Skin Study Section. Dr. Millar is a highly regarded educator of medical students, graduate students, postdoctoral fellows, residents, fellows and undergraduate students. She lectures nationally and internationally, including the Gordon Conference on Epithelial Differentiation and Keratinization, the European Wnt Meeting, the Keystone Meeting on Wnt/beta-catenin Signaling in Development and Disease and a plenary lecture at the 2007 Society for Investigative Dermatology Annual Meeting. She is a member of the Society for Investigative Dermatology, the National Alopecia Areata Foundation and the North American Hair Research Society.

Edward E. Morrisey, Ph.D.

Professor of Medicine

Dr. Morrisey is an internationally-renowned molecular and developmental biologist whose cutting-edge research has advanced the understanding of cardiac and lung development. He uses multiple approaches and complex molecular genetic models to study the roles of the transcriptional and signaling pathways—including Wnt, GATA and Foxp—that regulate cardiovascular and lung biology. In 2007, he was named Scientific Director of the Penn Institute for Regenerative Medicine. Among his responsibilities are the solicitation and evaluation of pilot project applications. He has been successful in securing extramural funding for his research. He has contributed peer-reviewed publications in high impact journals, including *Science*, *Nature Genetics*, the *Journal of Clinical Investigation* and *Development*. He is consulting editor for the *Journal of Clinical Investigation*. He is a grant reviewer for the US-Israel Binational Science Foundation and the Austrian Science Fund. In 2008, he served as chair for the NIH special emphasis panel grant reviews in lung development. Dr. Morrisey makes strong contributions as a teacher and mentor of graduate students, MD-PhD students and postdoctoral fellows. He lectures nationally and internationally. He has had organizing roles in a number of scientific annual meetings such as the American Heart Association, American Thoracic

Society International Conference and Federation of American Societies for Experimental Biology meeting.

Mary C. Mullins, Ph.D.

Professor of Cell and Developmental Biology

Dr. Mullins is a prominent developmental geneticist who is having a major impact on her field. Her research, combining genetic and biochemical methods, has focused on the mechanism of Bone Morphogenetic Protein (BMP) signaling in dorso-ventral patterning of the vertebrate embryo and the maternal regulation of embryonic vertebrate development. In 2006, she was the recipient of the Friedrich Wilhelm Bessel Research Award from the Humboldt Foundation. This award recognizes scientists expected to continue producing cutting-edge achievements that will have a seminal influence on their discipline beyond their immediate field of work. Dr. Mullins has contributed publications in highly-regarded journals such as *Development*, *Developmental Cell*, *Nature Cell Biology* and *PLoS Genetics*. She is associate editor of *PLoS Genetics* and *Embryo Today*, and is on the editorial boards of *BioMed Central Developmental Biology* and *Zebrafish*. She has served on multiple review panels for the NIH and the National Science Foundation, and has reviewed grants for many national and international societies and foundations. Dr. Mullins makes important contributions to graduate student education, including the mentorship of students in her laboratory. She has co-directed and taught a course for many years at Woods Hole, and is a frequently invited lecturer nationally and internationally. In 2006, she was elected Secretary of the Society for Developmental Biology, the major academic society in her field.



Vladimir R. Muzykantov, M.D., Ph.D.
Professor of Pharmacology

Dr. Muzykantov is an internationally recognized translational investigator whose interdisciplinary research focuses on targeted therapeutics in vascular diseases. His innovative work has potential implications for therapeutic interventions in such diseases as ischemia, thrombosis, inflammation in the lungs and other sites and oxidative stress. He has a history of continuous grant funding. He has contributed numerous peer-reviewed publications. He is a member of an NIH External Advisory Board and has served on an NIH study section and special panel. Dr. Muzykantov is an effective educator and mentor of graduate students, medical students and postdoctoral fellows. He has chaired the Graduate Group in Pharmacological Sciences since 2006. He presents his work nationally and internationally, including the keynote lecture at the 6th International Conference on Interdisciplinary Transport Phenomena and as the plenary speaker at the 2nd International Nanotechnology Forum in 2009. He is an active member of the International Controlled Release Society, American Heart Association, Inflammation Research Association, American Thoracic Society and American Physiological Society. He will serve as Vice Chair of the Gordon Conference on Drug Carriers in Medicine and Biology this summer and will serve as Chair in 2012.

Michael L. Nance, M.D.
Professor of Surgery at The Children's Hospital of Philadelphia

Dr. Nance is a nationally prominent academic surgeon recognized for his expertise in pediatric trauma surgery, general pediatric surgery and surgical critical care. His research interests complement his clinical responsibilities and include the care of children with solid organ injuries, patterns of injury in motor vehicle crashes, long term effects of traumatic brain injury, firearms injuries and trauma systems issues and access to pediatric trauma care. In 2004, he was named as the Josephine J. and John M. Templeton, Jr. Endowed Chair in Pediatric

Trauma, the only endowed pediatric trauma surgery chair in the country. He has contributed publications in important journals in his field, including the *Journal of Pediatric Surgery*, *Annals of Surgery* and *Journal of Trauma*. He serves on the editorial board of *Pediatric Emergency Care*. Dr. Nance is an outstanding and highly valued teacher and mentor of medical students, residents and fellows. He is Course Director for the John M. Templeton, Jr. Pediatric Trauma Symposium, an annual two-day conference that attracts a national audience of trauma surgeons and staff. He is active in a number of professional and scientific societies, including membership on the Committee on Trauma for the American College of Surgeons and Vice-Chair of the Trauma Committee for the American Pediatric Surgery Association.

Katherine L. Nathanson, M.D.
Associate Professor of Medicine

Dr. Nathanson is an outstanding translational researcher who is advancing the field of cancer genetics. Her research focuses on inherited and somatic and germline genetic changes in cancer and potential clinical applications. She leads and participates in multidisciplinary projects that include susceptibility to testicular germ cell tumors, somatic genetics of melanoma, hereditary breast and ovarian cancer and renal cancer genetics. She has an impressive portfolio of extramural grant funding. Dr. Nathanson has published her research in premier journals such as *Nature Genetics*, *Cancer Cell*, the *Journal of Clinical Oncology*, *Human Molecular Genetics* and *Cancer Research*. She was elected to the American Society of Clinical Investigation in 2009. She is also recognized nationally for her clinical acumen in the evaluation and treatment of hereditary cancer syndromes in children and adults, and served for many years as curbside consultant in cancer genetics at the American Society of Human Genetics meetings. She has reviewed grants for the NIH, the Department of Defense and numerous foundations. Dr. Nathanson contributes to the education of medical students, residents, fellows, postdoctoral fellows and other trainees

in clinical and research settings. She presents her work nationally and internationally, including sessions of annual meetings of the American Society of Clinical Oncology. She is the invited plenary speaker at the Irish Association of Cancer Research this year. She is active in a number of professional and scientific societies, including membership on the Executive Committee of the Adult Health Special Interest Group of the American College of Medical Genetics and the Tuberos Sclerosis Alliance Clinic Committee.

Allison Oler, M.D.
Associate Professor of Clinical Medicine

Dr. Oler is an excellent and highly productive clinician with expertise in women's health and primary care. She serves as Director of Internal Medicine for Women's Health, a widely acclaimed program recognized for a comprehensive approach to patient care. She received the Sylvan Eisman Outstanding Primary Care Physician Award in 2004. She is an enthusiastic and devoted teacher of medical students, interns and residents. Dr. Oler developed and directs the innovative Penn Health for Women Training Program at Penn Medicine at Radnor, an outpatient elective for gynecology and internal medicine residents interested in women's health. She serves as editor-in-chief of *Continuing Medical Education*, *Journal Watch Online*, a premier source of medical information. She became a Fellow in the American College of Physicians in 2003.

Jordan S. Orange, M.D., Ph.D.
Associate Professor of Pediatrics

Dr. Orange is a leader in the field of primary immune deficiencies (PIDs). His research combines cutting-edge cell biology, innovative translational research and clinical investigation focusing on the molecular and cellular bases of inherited disorders of immunodeficiency. He has been extremely successful in obtaining NIH support for his research. Dr. Orange has contributed peer-reviewed publications in leading journals, including the *The New England Journal of Medicine*, *Journal of Immunology*,

Journal of Experimental Medicine, *Journal of Allergy and Clinical Immunology* and *Journal of Clinical Investigation*. In recognition of his many contributions, he received the Education and Research Trust Award from the American Academy of Allergy, Asthma, and Immunology in 2005 and the Judson Daland Prize for Outstanding Clinical Investigation from the American Philosophical Society in 2009, and he was elected to the American Society of Clinical Investigation in 2010. He excels clinically in the evaluation and treatment of children with primary immunodeficiency diseases, and established and directs the Jeffrey Modell Foundation Diagnostic Center for Primary Immunodeficiency at CHOP. In 2007, he was awarded the patient advocacy award from the Immune Deficiency Foundation. He has been a grant reviewer for the NIH, the UK Burroughs Wellcome Foundation and the Thrasher Foundation. He is a continuing member of the NIH Innate Immunity Special Emphasis Review Panel. Dr. Orange's contributions to education are equally remarkable. He is a dedicated and enthusiastic teacher and mentor of undergraduates, medical students, graduate students, residents and fellows. He was the 2007 recipient of the Leonard Berwick Memorial Teaching Award, a Penn Award of Excellence, that celebrates achievement in combining basic science and clinical medicine in teaching.

Warren Pear, M.D., Ph.D.
Gaylord P. and Mary Louise Harnwell Professor of Pathology and Laboratory Medicine

Dr. Pear is an international expert in immunology and cancer biology. His research focuses on the processes that lead to the development and differentiation of mature hematopoietic cells from a single hematopoietic stem cell and how changes in these normal processes cause leukemia and lymphoma. He has a highly successful funding record. He has published in leading journals, including *Cell Stem Cell*, *The Journal of Experimental Medicine*, *Journal of Clinical Investigation* and *Blood*. He is on the editorial boards of *Stem Cells* and *Cancer Biology and*



Therapy, and was recently appointed to the Board of Consulting Editors for the *Journal of Clinical Investigation*. He has been a member of NIH study sections and site visit review committees. Dr. Pear is a dedicated and enthusiastic educator and mentor of graduate students and postdoctoral fellows. He is an invited lecturer nationally and internationally, including presentations at international meetings. He is a member of a number of professional and scientific societies, including the American Society of Hematology, the American Society of Clinical Investigation, the American Association of Immunology and the American Society of Investigative Pathology.

Iyalla Elvis Peterside, M.D.

Associate Professor of Clinical Pediatrics

Dr. Peterside is widely acknowledged as an outstanding neonatologist at HUP and CHOP. He is recognized for his clinical acumen, devotion to patient care, his communication skills with families and his collegiality. He has demonstrated critical leadership in his positions of Associate Director of the Neonatal ECMO Program and Associate Medical Director in the Newborn Intensive Care Unit at CHOP. He was appointed Medical Director of the Neonatal Intensive Care Nursery at HUP in 2007. Dr. Peterside has led a number of important patient safety and quality improvement and monitoring initiatives. He is a highly respected teacher and mentor of medical students, residents, fellows and nurses, and has been elected to the CHOP Residents' Teaching Faculty Honor Roll in 2004, 2005, 2006 and 2008. He is a fellow of the American Academy of Pediatrics and a member of the Philadelphia Perinatal Society.

Avrum N. Pollack, M.D.

Associate Professor of Clinical Radiology

Dr. Pollack is a nationally prominent authority in clinically applied pediatric neuroradiology imaging and multi-modality imaging of the pediatric patient. He is also an outstanding educator of medical students, residents and fellows. He is the Radiology Residency and Program Director at CHOP, considered one of the premier programs

in the U.S. Under his leadership, the program has grown from two to 10 accredited positions. Dr. Pollack is one of a select number of oral examiners for the American Board of Radiology. He is a member of a number of professional and scientific societies, including the American Society of Pediatric Neurology and the Association of Program Directors in Radiology, and currently serves on the nominating committee of the Society of Pediatric Radiology. He is a reviewer for *Pediatric Radiology* and the *American Journal of Radiology*.

Jane Z. Portnoy, M.D.

Associate Professor of Clinical Ophthalmology

Dr. Portnoy is an accomplished clinician and educator who provides outstanding comprehensive and neuro-ophthalmology care at the VAMC, Scheie Eye Institute and its satellite sites. She is highly regarded for her attentive and compassionate care and for serving as an advocate for her patients. Dr. Portnoy is an active and skilled teacher of medical students and residents in the classroom and clinical settings. She presents lectures on vision loss for continuing medical education programs in the region. She is a member of the American Academy of Ophthalmology, the American Society of Cataract and Refractive Surgery and the North American Neuro-Ophthalmology Society.

Muredach P. Reilly, M.D.

Associate Professor of Medicine

Dr. Reilly is a leader in cardiovascular research who has made important contributions in understanding molecular and genetic aspects of the metabolic syndrome and related cardiovascular diseases in humans. His translational research focuses on inflammation, insulin resistance, arteriosclerosis and markers of arteriosclerotic cardiovascular disease, and the genetics of arteriosclerosis. He has been successful in obtaining funding for his research. Dr. Reilly has contributed peer-reviewed publications in high-level journals such as *Diabetes*, the *Journal of Biological Chemistry* and *Circulation*. He was elected to membership in the American Society for Clinical

Investigation in 2009. He is a consulting editor of the *Journal of Clinical Investigation*. He serves as a grant reviewer for The Netherlands Organization for Health Research and Development. He is on several review and study committees for the NIH, including the Subclinical Arteriosclerosis Working Group of the NHLBI Candidate-Gene Association Resource Study, and also serves on study sections for the American Heart Association. Dr. Reilly excels as an educator and mentor of medical students, residents and fellows, graduate students and postdoctoral fellows. In 2008, he received the Donald B. Martin Teaching Service Award in the Department of Medicine. He has presented his research at annual meetings of the American Heart Association, the American College of Cardiology and a Gordon Research Conference on Atherosclerosis. He has served as Co-Chair of the Executive Committee of the Coronary Artery Diseases Genome Wide Replication and Meta-analysis and Chair of the Early Career Committee of the Council on Arteriosclerosis, Thrombosis and Vascular Biology of the American Heart Association.

Jonathan J. Rome, M.D.

Professor of Pediatrics at The Children's Hospital of Philadelphia

Dr. Rome is an outstanding academic pediatric cardiologist who is a preeminent leader in pediatric cardiology, particularly interventional cardiology. His research focuses on the development and application of new devices and techniques, assessment of interventional outcomes and integration of catheter-based therapy into the care of children with complex congenital defects. He is a highly productive clinical trialist. In 2006, he was named Director of the Cardiac Procedure and Recovery Unit at CHOP and in 2009, he was named Associate Chief for Clinical Affairs in the Division of Cardiology. Under his leadership, the cardiac catheterization laboratory at CHOP has become a nationally-recognized diagnostic and therapeutic laboratory. His peer-reviewed publications are in leading journals in his field, including *The Journal of Thoracic and Cardiovascular Surgery*,

Catheter and Cardiovascular Interventions and *Pediatric Cardiology*. He serves on the editorial board of *Pediatric Cardiology*, and is a reviewer for numerous additional journals. Dr. Rome is a highly respected teacher and mentor of residents, fellows, colleagues and other health care professionals. He has lectured at meetings of the American College of Cardiology, Society for Cardiac Angiography and Intervention and Pediatric Interventional Cardiology Symposium. He is a member of several professional and scientific societies and a member of the National Cardiovascular Data Registry: Pediatric Cardiac Catheterization (IMPACT) Registry Steering Committee for the American College of Cardiology.

Mark A. Rosen, M.D., Ph.D.

Associate Professor of Radiology at the Hospital of the University of Pennsylvania

Dr. Rosen has had an impact on the field of magnetic resonance imaging (MRI), particularly cancer imaging. His research focuses on the use of Dynamic Contrast Enhanced MRI to characterize tumor vascularity. He has been successful in obtaining grant support for his research from federal, foundation, and industry sources, and has served as principal investigator of numerous clinical trials. He is Medical Director and a member of the Steering Committee for the American College of Radiology Imaging Network (ACRIN), a National Cancer Institute-sponsored cancer cooperative group and the largest international cancer imaging clinical trial organization. In recognition of his contributions to the field, he received ACRIN's Outstanding Contribution Award in 2007. Dr. Rosen has contributed publications in leading imaging journals, including *Radiology* and *Magnetic Resonance in Medicine*, as well as high impact cancer journals, including *Clinical Cancer Research* and *Journal of Clinical Oncology*. He is a member of an NIH study section. Dr. Rosen is an active educator and mentor of medical students, residents and fellows. He has served as Fellowship Director of Body MRI since 2004 and is currently co-director of the Oncologic Imaging Fellowship. He has presented his work at annual meetings



of the Radiological Society of North America. He has served in an organizing role for two Core Laboratory Scientific Sessions for the fall meeting of American College of Radiology Imaging Network.

Bruce Sachais, M.D., Ph.D.

Associate Professor of Pathology and Laboratory Medicine at the Hospital of the University of Pennsylvania

Dr. Sachais is an outstanding academic pathologist who is a national expert in transfusion and apheresis medicine. His research focuses on the structure and biology of platelet factor 4 (PF4) and its role in atherosclerosis and heparin induced thrombocytopenia (HIT). He has also developed an active clinical and translational research program involving the safety and efficacy of LDL apheresis, the monitoring and evaluation of novel clotting factors for achieving hemostasis in bleeding and at-risk patients, and the care of patients undergoing therapeutic or donor apheresis. He has obtained federal funding for his research. Dr. Sachais has published in high profile journals in his field, including *Blood*, the *Journal of Biological Chemistry* and *Journal of Clinical Apheresis*. In 2008, he received the Ellis Benson Award from the Academy of Clinical Laboratory Physicians and Scientists "in recognition of meritorious accomplishment in the field of laboratory medicine." Dr. Sachais contributes extensively to teaching in the School of Medicine, Penn and nationally. He is a highly regarded educator and mentor of a wide range of students, including undergraduates, medical students, residents, fellows, veterinary students, graduate students, blood bank technologists and apheresis nurses. He created the laboratory section and serves as a co-director of a course in the Masters in Translational Research program. He serves as co-chair of the Education Committee of the American Society for Apheresis (ASFA) and co-chair of the Apheresis Residents and Fellows Training Committee. He has organized apheresis graduate medical education forums at annual meetings of the ASFA. He was recently elected to the Board of Directors of ASFA, and is a member of the Clinical Transfusion Medicine Committee of the American Association of Blood Banks.

Steven L. Sayers, Ph.D.

Associate Professor of Psychology in Psychiatry at the Veterans Affairs Medical Center

Dr. Sayers excels as clinician, researcher, teacher and administrator. He is a national expert in marital and family assessment and interventions whose innovative work has influenced treatment outcomes. Recently, his research has focused on the key role families play in reintegrating veterans of the Iraq and Afghanistan conflicts upon their return from military service. He was invited to provide testimony on this issue to the Senate Veterans Affairs Committee Hearing "Caring for the Families of Wounded Warriors" in 2008. His research has been funded by the VA and the NIH. He has contributed publications in top tier journals in his field, including *Psychological Assessment*, the *Journal of Abnormal Psychology*, and *American Journal of Psychiatry*. He is on the editorial advisory board of *Clinical Psychology Review*. Dr. Sayers is a highly effective educator of medical students and pre-doctoral and postdoctoral trainees. He provides leadership and training in his role as Co-Associate Director for Education for the Mental Illness Research, Education, and Clinical Center at the VA, Director of the VA Special Fellowship in Mental Health and Director of the VA Psychiatry Grand Rounds. He is a member of the Association for Behavioral and Cognitive Therapies, the American Psychological Association and the Society for Behavioral Medicine.

James M. Schuster, M.D., Ph.D.

Associate Professor of Neurosurgery at the Hospital of the University of Pennsylvania

Dr. Schuster is an expert in the surgical care of patients with complex spinal disorders including degenerative scoliosis, metastatic tumors and spinal trauma. He integrates his research and clinical activities, focusing on spine metastasis, glioblastoma and the biomechanics of spinal disk degeneration and spine motion. His research is supported by private foundation and industry grants and clinical trials. He has contributed

publications in specialty journals in his field, including *Spine*, the *Journal of Neurosurgery*, *Spine* and *Journal of Neuro-oncology*. He is a member of an NIH data monitoring and safety committee. Dr. Schuster makes significant contributions to the education of medical students, residents, fellows and colleagues. Since 2007, he has served as Director of Medical Student Education for the department and, in 2008, was named Associate Program Director for the Neurosurgery Residency Program. He introduced minimally-invasive spinal surgery as part of the residency training and is developing the frameless stereotactic navigation program for spine surgery as an educational program. Dr. Schuster was selected to participate in the AO Spine North America Educational Committee, which plans and approves the curriculum for a number of national educational courses per year. He presents his work nationally and internationally. He is a member of AO Spine International, The American Association of Neurological Surgeons and The Congress of Neurological Surgeons.

Mark H. Schutta, M.D.

Associate Professor of Clinical Medicine

Dr. Schutta is an outstanding clinician, educator and administrator. He is the "go-to" clinician for the management of diabetes in Philadelphia and the Delaware Valley region. He plays key administrative roles in the Division of Endocrinology, Diabetes and Metabolism. He serves as Medical Director of the Penn Rodebaugh Diabetes Center, a highly regarded comprehensive diabetes care program that is the model for care of this complex chronic disease. He has overseen the development of the inpatient diabetes management program at HUP. Dr. Schutta makes important contributions to the education of medical students, residents and fellows. He served as Course Director for the endocrinology course for medical students for eight years. He is a member of the American Diabetes Association and The Endocrine Society.

Antonia R. Sepulveda, M.D., Ph.D.

Professor of Pathology and Laboratory Medicine at the Hospital of the University of Pennsylvania

Dr. Sepulveda is an international authority in molecular pathology and gastrointestinal malignancy. Her research is focused on gastrointestinal carcinomas, the underlying molecular mechanisms of progression to cancer and the identification of molecular markers for diagnostic and prognostic testing of solid tumors. As Director of Surgical Pathology, she provides collaborative leadership for numerous faculty within diverse areas. Her expertise in molecular biology has enabled her to expand the program of molecular testing as applied to solid tumors. She has been successful in obtaining federal funding to support her research. She has contributed publications in high profile journals, including *Gastroenterology*, the *Journal of Biological Chemistry*, *American Journal of Pathology* and *Helicobacter*. She is editor of the Gastrointestinal Pathology Section for the *Archives of Pathology and Laboratory Medicine*, and a reviewer for numerous additional journals. She has served on many study sections and grant review panels for the NIH and the American Cancer Society. Dr. Sepulveda is an active and highly regarded educator and mentor of medical students, residents and fellows. She is a member of multiple professional and scientific societies, including the United States and Canadian Academy of Pathology, the European Helicobacter Study Group, the American College of Gastroenterology and the American Society for Investigative Pathology. In 2009, she was elected chair of the Solid Tumor Subdivision for the Association for Molecular Pathology. She has held organizing roles in scientific meetings.

John T. Seykora, M.D., Ph.D.

Associate Professor of Dermatology

Dr. Seykora has developed a national reputation as an expert dermatopathologist and has been productive in both independent laboratory research and collaborative team science. His research focuses on tyrosine kinase (TK) signal transduction and its role in keratinocyte



biology and skin cancer. Among his many accomplishments is the identification of the novel adapter molecule, Srcasm, and its role in the regulation of Src-kinase signaling in epithelial cells. He is Director of the Skin Histology and Characterization Core of the NIH funded Skin Disease Research Center. He is one of a handful of R01 funded academic dermatopathologists in the country. Dr. Seykora has contributed peer-reviewed publications in top tier and high impact journals, including the *Journal of Biological Chemistry*, *American Journal of Dermatopathology* and *Cancer Research*. He is a consulting editor for the *Journal of Clinical Investigation*, an associate editor of the *Journal of Cutaneous Pathology* and is on the editorial board of *Laboratory Investigation*. He regularly serves on NIH study sections. Dr. Seykora excels as a teacher and mentor of medical students, graduate students, residents, fellows and postdoctoral fellows. He participates as a member of the Dermatology Residency Review and Dermatopathology Fellow Selection Committees. He lectures nationally and internationally, including meetings of the American Academy of Dermatology and the International Investigative Dermatology. He serves as Chair of the Scientific Committee of the Dermatology Foundation, Chair of the American Society of Dermatopathology's Mentorship Award Committee, and Chair of the Klighman Travel Fellowship Committee of the Society of Investigative Dermatology.

Suzanne M. Shepherd, M.D.

Professor of Emergency Medicine at the Hospital of the University of Pennsylvania
Dr. Shepherd is an authority in travel medicine and tropical diseases. She has participated in federally-funded and privately funded research. Her publications include print and numerous alternative media with frequently updated peer-reviewed articles on environmental and infectious illnesses. She developed and serves as Associate Director of the highly successful Travel Medicine Division. In 2005, she was named Director of the Clinical Decision Unit in Emergency Medicine. She is a reviewer for the *Journal of Wilderness*

Medicine and American Journal of Tropical Medicine and Hygiene. Dr. Shepherd is a respected contributor to emergency medicine education through curriculum design, lectures and participation in major committees in professional societies. She is a highly regarded teacher of medical students, residents, fellows and nurse practitioners. She has presented her work nationally and internationally. She has been actively involved in numerous committees and task forces for the Society for Academic Emergency Medicine, the American College of Emergency Physicians and the Council of Emergency Medicine Residency Directors and the American Board of Emergency Medicine.

Eileen M. Shore, Ph.D.

Research Professor of Orthopaedic Surgery
Dr. Shore is an internationally recognized investigator in the field of molecular biology and genetics of bone hereditary disorders, in particular Fibrodysplasia Ossificans Progressiva (FOP) and Progressive Osseous Heteroplasia (POH). She has made several important independent contributions, including identification of the GNAS gene mutations as a cause of POH and identification of the mutated gene in FOP, which led to a seminal paper published in *Nature Genetics* in 2006. She has a history of continuous grant funding. Her publications are in prominent journals such as the *Journal of Biological Chemistry*, *Journal of Bone and Mineral Research* and *The New England Journal of Medicine*. She is a member of the editorial board of the *Journal of Bone and Mineral Research*, and a reviewer for numerous other journals. She has been a grant reviewer for many NIH study sections and is currently a standing member of the NIAMS/NIH Skeletal Biology Development and Disease Study Section. In 2008, she received the Rita Allen Foundation Award. Dr. Shore is an outstanding mentor. She is an active member of a number of professional and scientific societies, including serving as Vice-President and President-Elect of the Advances in Mineral Metabolism group and on the publications committee of the American Society of Bone and Mineral Research. She has presented her research nationally and internationally.

Douglas H. Smith, M.D.

*Robert A. Groff Professor of Teaching and Research in Neurosurgery**

Dr. Smith is an internationally-acclaimed interdisciplinary investigator in traumatic brain injury. He is the Director of Penn's Center for Brain Injury and Repair, one of only five NIH-designated traumatic brain injury research centers in the U.S. His research focuses on axonal injury and repair through in vitro and in vivo models and clinical cases as well as nervous tissue engineering. Additionally, his research was the first to demonstrate a potential mechanistic link between shared pathologic processes of traumatic brain injury and Alzheimer's disease. He has a successful record of grant funding. He has contributed numerous publications in leading journals, including *Nature Neuroscience*, *Neurosurgery* and the *Journal of Neuroscience*. He is on the editorial board for the leading journal in his field, the *Journal of Neurotrauma*. He serves as a grant reviewer for the Wellcome Trust, the NIH, the United States Army Medical Research and Military Command and the United States Veterans Administration. He participated as a consultant for the Department of Defense and the NIH at special meetings to identify gaps in traumatic brain injury. Dr. Smith has contributed extensively to mentoring of students and post-doctoral fellows in medicine and engineering, and lectures in team-taught courses. He presents his work nationally and internationally. He has been very active in professional and scientific societies, and currently serves as Councilor of the National Neurotrauma Society and Director of the Workshop Group on Traumatic Brain Injury Models for the Society for Neuroscience.

Hee Kwon Song, Ph.D.

Associate Professor of Radiologic Science in Radiology

Dr. Song is an innovative and nationally-recognized investigator in the field of magnetic resonance imaging. His research focuses on the development of novel dynamic contrast-enhanced MRI (DCE-MRI) techniques for tumor vascular assessment. He has a successful history of

obtaining federal and foundation funding for his research. His publications are in leading journals in his field, including *Magnetic Resonance in Medicine* and the *Journal of Magnetic Resonance*. He is a member of the editorial board of *Open Biomedical Engineering*, and a reviewer for a number of additional journals. He has reviewed grants for the Research Grants Council of Hong Kong and the NIH. Dr. Song has been active in teaching and mentoring postdoctoral and graduate students, primarily in the lab but also in the classroom setting. He has been a member of the Bioengineering Graduate Group since 2003. He recently taught a course on Fundamental Principles of Magnetic Resonance Imaging at the U.S. Patent and Trademark Office. He is a member of the International Society for Magnetic Resonance in Medicine and the Institute of Electrical and Electronics Engineers.

Erica R. Thaler, M.D.

Professor of Otorhinolaryngology: Head and Neck Surgery at the Hospital of the University of Pennsylvania

Dr. Thaler is a nationally prominent, highly productive academic otolaryngologist with expertise in sinus disease and thyroid tumors. Her multi-disciplinary clinical research focuses on the development of the electronic nose to detect sinus disorders and respiratory disease, including infections and cancer. She is director of the Division of General Otolaryngology: Head and Neck Surgery, Director of the Physician Practices at Radnor, Coordinator of the Clinical Research Division of her department and Director of Outpatient Surgical Practices. She has published her research in top journals in her field, including *Laryngoscope*, the *American Journal of Rhinology*, *Otolaryngology – Head and Neck Surgery* and *Archives of Otolaryngology – Head and Neck Surgery*. She is on the editorial board of the *American Journal of Rhinology*. Dr. Thaler is an outstanding teacher and mentor of medical students, residents, and fellows. She has contributed to education nationally. She has served as Chair for the Rhinology and Allergic Disorders Section of the Home Study Course,

*Faculty appointment has been converted to tenure.



which is responsible for the production of a major CME offering by the American Academy Otolaryngology, and she is a member of the Rhinology and Allergy Education Committee. She is also a member of the task force on new materials for the Otolaryngology board examination. She was elected to the prestigious Triological Society in 2001, and received the Honor Award from the American Academy of Otolaryngology: Head and Neck Surgery in 2005 in recognition of her contributions to education and research.

Abby S. Van Voorhees, M.D.

Associate Professor of Dermatology at the Hospital of the University of Pennsylvania

Dr. Van Voorhees is a highly accomplished dermatologist who is a national leader in the diagnosis and treatment of psoriasis and other resistant dermatoses, phototherapy, and newer pharmacotherapies. She is the director of the Psoriasis Clinic and the Phototherapy Treatment Center at HUP. As Chair of an American Academy of Dermatology committee, she led the effort to develop evidenced based guidelines for care. She has contributed publications in premier journals in her field. She served on the editorial board of one of the major clinical journals in dermatology, the *Journal of the American Academy of Dermatology*, from 2004 through 2008. She is a member of the editorial board of *Practical Dermatology*, associate editor of *Psoriasis Forum* and section editor for the E-Medicine Dermatology textbook. Dr. Van Voorhees is an outstanding teacher of medical students and residents. In 2007, she received the Attending Teaching Award from the residents in the Department of Dermatology. From 2006 through 2009, she served as Co-Chair for the National Psoriasis Foundation chief residents' meetings. She is an active member of a number of professional and scientific societies, including the American Academy of Dermatology and the National Psoriasis Foundation.

David J. Vaughn, M.D.

Professor of Medicine at the Hospital of the University of Pennsylvania

Dr. Vaughn is an outstanding medical oncologist who is a national leader in the management of urologic cancers. His research focuses on novel therapeutics for testicular, bladder and prostate cancers and cancer survivorship. As Medical Director of the Abramson Family Cancer Research Institute, he is responsible for the Institute's clinical programs. He has been successful in securing funding for his research through federal, private foundation and industry sources. He has contributed publications in prominent journals, including *Cancer*, *Nature Genetics*, *The New England Journal of Medicine* and *Journal of Clinical Oncology*. He has served on the editorial board of the *Journal of Clinical Oncology* and is currently on the editorial board of OncoLink. He has participated on the grant review committee for the Lance Armstrong Foundation. Dr. Vaughn is a highly esteemed teacher and mentor of medical students, residents and fellows. In recognition of his outstanding contributions, he was awarded the John Glick Prize for Teaching Excellence in Oncology in 2007. He is a member of a number of professional and scientific societies and serves as a member of the Germ Cell Tumor Guideline Panel for the American Society of Clinical Oncology. He is invited to present his work nationally.

Joan M. Von Feldt, M.D., MSED

Professor of Medicine at the Hospital of the University of Pennsylvania

Dr. Von Feldt is an expert in cardiovascular aspects of systemic lupus erythematosus (SLE) and rheumatoid arthritis (RA). She is known particularly for her work on premature atherosclerosis in patients with SLE. She has made important contributions to the literature in her field, and is on the editorial board of the *Journal of Clinical Rheumatology* and *The Rheumatologist*. Dr. Von Feldt contributes extensively to the education of medical students, residents and fellows. She received a Masters in Education in 2007. She is Course Director of two highly successful courses and Associate Director of the doctoring

course, a three-year longitudinal curriculum that fosters professional development, patient safety and medical ethics. She is also recognized nationally for her influential contributions to rheumatology education. Her outstanding service for the American College of Rheumatology includes Chair of Educational Awards, Chair of the Training and Workforce Committee of the Subcommittee on Musculoskeletal Curriculum for Medical Students, Clinical Educator Study Group Chair and Committee on Education Chair, Subcommittee on Educational Products. Dr. Von Feldt is also a board member of the Subspecialty Board of Rheumatology of the American Board of Internal Medicine, and is on the Executive Committee of the American Medical Association Patient Education Advisory Board.

Daniel Weintraub, M.D.

Associate Professor of Psychiatry at the Hospital of the University of Pennsylvania

Dr. Weintraub is a nationally prominent academic geriatric psychiatrist who focuses on the psychiatric and cognitive complications of neurodegenerative diseases, particularly Parkinson's disease. In 2006, he was one of only two psychiatrists appointed as a member of the Scientific Review Committee of the Parkinson Study Group, a group of prestigious academic medical centers involved in the conduct of clinical research in the disease. He has been successful in securing extramural funding for his research. He has contributed publications in notable journals in his field, including *Movement Disorders*, the *Journal of Geriatric Psychiatry and Neurology* and the *International Journal of Geriatric Psychiatry*. He has reviewed grants for the Parkinson's Disease Society United Kingdom, the Wellcome Trust and the Department of Veterans Affairs. Dr. Weintraub teaches medical students, undergraduate students, residents and fellows, and is particularly effective in graduate student teaching. He lectures nationally and has presented at professional meetings of the American Psychiatric Association and the American Association of Geriatric Psychiatry. He has held organizing roles in a number of

scientific meetings, including serving on the program committee of the American Association of Geriatric Psychiatry for three years.

Andrew D. Wells, Ph.D.

Associate Professor of Pathology and Laboratory Medicine

Dr. Wells is an accomplished and productive immunologist in the field of immunobiology and transplantation who studies the genetic and epigenetic regulation of T cell activation and its implications in the induction of T cell tolerance and anergy. He is also recognized as a generous collaborator whose work enhances the projects of a number of other laboratories. He has been highly successful in garnering extramural support for his research. He publishes in leading journals, including *The Journal of Biological Chemistry*, *The Journal of Immunology* and *Nature Medicine*. He has served as associate editor and is currently section editor of *The Journal of Immunology*. He reviews grants for The Wellcome Trust and the Tolerance, Transplantation, and Tumor Immunology Study Section of the NIH. Dr. Wells is a strongly committed and highly effective teacher and mentor in the research arena. He has developed a grant-writing course for senior Ph.D. trainees that has been particularly beneficial. He is a member of the American Association of Immunologists and is Co-Chair of the American Society of Transplantation Basic Science Advisory Committee.

Robert B. Wilson, M.D., Ph.D.

Professor of Pathology and Laboratory Medicine at the Hospital of the University of Pennsylvania

Dr. Wilson is recognized internationally for his contributions to neurodegenerative diseases, particularly Friedreich Ataxia (FA), a rare inherited disease characterized by degeneration of nerve fibers in the spinal cord. His many contributions include the development of the first high-throughput drug screens for FA, the development of endpoint measures of ataxia for phase III clinical trials and the development



of a unique shRNA-expression library. He has been instrumental in the development of the Friedreich's Ataxia Research Alliance (FARA), an international collaborative association for understanding and advancing therapies for this disease. He has also been involved in the design, validation and implementation of several new clinical assays. He has been highly successful in obtaining funding for his research. He publishes in leading journals in his field, including *PLoS One*, *Muscle and Nerve* and *Movement Disorders*. Dr. Wilson is an outstanding educator and mentor of medical students, residents, fellows, graduate students and postdoctoral fellows. His contributions have been recognized with many awards within his department and the School of Medicine, including the Kevin E. Salhany Award for Excellence in Clinical Teaching in 2002, the Peter C. Nowell Teaching Award in 2003, the Leonard Berwick Memorial Teaching Award in 2004, the Basic Science Teaching Award in 2005 and the Best Small Group Leader Teaching Award in 2009. He is a member of the Association for Molecular Pathology, Scientific Advisor for FARA, and a member of the Medical Advisory Board for the National Ataxia Foundation.

Flaura K. Winston, M.D., Ph.D.
Professor of Pediatrics

Dr. Winston uses her expertise in medicine, biomechanical engineering and epidemiology in a discipline she developed, biomechanical epidemiology, to study injury and implement strategies for prevention. Her innovative research has had a major impact on childhood injury prevention, the use of child restraint systems in motor vehicles, post-traumatic stress disorder in children and parents after traffic injuries, and injury prevention for teen drivers. She has an impressive history of research funding. Since 2003, she has served as Director of the National Science Foundation Center for Child Injury Prevention Studies at CHOP. She is also Scientific Director of the Center for Injury Research and Prevention at The Children's Hospital of Philadelphia Research Institute. Dr. Winston has contributed numerous publications in high impact journals, including *Injury*

Prevention, *Pediatrics* and the *Journal of Trauma*. In recognition of her research and service to injury and accident prevention, she has been the recipient of numerous awards, including the Emergency Medical Services for Children Outstanding Research Project Award in 2005, John Eisenberg Patient Safety and Quality Award, Individual Achievement sponsored by the National Quality Forum and the Joint Commission on the Accreditation of Hospitals in 2007, the AcademyHealth HSR Impact Award in 2007, the Injury Prevention and Control Health Impact Award from the Centers for Disease Control and Prevention in 2008, and the Excellence in Science Award, Injury Control and Emergency Health Services Section from the American Public Health Association in 2009. She is associate editor of *Injury Prevention*. Dr. Winston is an accomplished educator and mentor of pediatrics residents, postdoctoral fellows, undergraduate and graduate students, and fellows in the Robert Wood Johnson Health and Society Scholars program. She has developed educational resources for parents, patients and physicians. She has served on many national committees as a pediatric injury prevention expert, including the National Research Council Institute of Medicine of the National Academies and the Centers for Disease Control and Prevention.

Y. Joseph Woo, M.D.
Associate Professor of Surgery

Dr. Woo is a nationally-recognized academic cardiothoracic surgeon whose research focuses on the development of novel molecular and genetic approaches to treating myocardial ischemia and heart failure. He has made significant contributions to advances in the areas of mechanical ventricular assistance, angiogenesis and cardiac growth in heart failure therapy. He directs the Minimally Invasive and Robotic Cardiac Surgery Program and is Associate Surgical Director of Thoracic Transplantation at HUP. He has been successful in obtaining federal and industry funding to support his research. His publications are in high impact journals, including *Circulation*, the *Journal of Molecular and Cellular Cardiology* and the *American Journal of Physiology*.

He is a gifted, technically skilled cardiac surgeon whose numerous clinical accomplishments include the development of the Minimally Invasive Valve Surgery Program at HUP, performing the first robotic cardiac surgery in the Delaware Valley, performing the world's first robotic aortic valve procedure, and expanding off-pump beating heart coronary artery bypass grafting at HUP. He is associate editor of *Circulation Journal*. He has participated in NIH study sections and working groups, and served as a grant reviewer for the American Heart Association and the Thoracic Surgery Foundation for Research and Education. Dr. Woo makes important contributions as a teacher and mentor of medical students, residents and fellows in the classroom, operating room, bedside and laboratory settings. He serves as Vice-Chair of the Scientific Sessions Program Committee for the Council on Cardiovascular Surgery and Anesthesia of the American Heart Association, member of the American College of Cardiology Annual Scientific Session Program, and Invited Session Chair for the Young Investigator Award for the Tissue Engineering and Regenerative Medicine International Society World Congress.

Edward Y. Woo, M.D.
Associate Professor of Surgery at the Hospital of the University of Pennsylvania

Dr. Woo has achieved national prominence in the field of vascular surgery. His clinical research focuses on the development of innovative approaches in the endovascular management of complex arteriolar problems, and his contributions in this area have influenced and advanced clinical practice. He is a highly active and productive clinical trialist who has participated in and led major clinical trials in the vascular surgery field. He publishes his research in highly regarded journals in the vascular field, including the *Journal of Vascular Surgery* and *Vascular and Endovascular Surgery*. He is on the editorial advisory board of *Endovascular Today*. Dr. Woo also makes important contributions as an educator and mentor of medical students, residents and fellows. He has served as the Program Director for the

Vascular Fellowship since 2007 and recently guided the program through a successful site visit and reaccreditation. He lectures nationally, including presentations at national meetings. He is an active participant in the International Society for Vascular Surgery, the Society for Clinical Vascular Surgery and the Society for Vascular Surgery. He is President Elect of The Delaware Valley Vascular Society.

John Fraser Wright, Ph.D.
Research Associate Professor of Pathology and Laboratory Medicine

Dr. Wright has made extensive contributions to his field and to translational research at Penn. He is the founding Scientific Director of the Clinical Vector Core in the Center for Cellular and Molecular Therapeutics, an internationally recognized facility that develops, studies and utilizes adeno-associated virus (AAV) vectors to support gene transfer and gene therapy. He has been an important participant in several landmark clinical trials involving the use of AAV vectors for Leber's congenital amaurosis and hemophilia. He has also continued his own research focusing on immunological problems related to AAV vectors. He has been successful in securing research funding from federal and private foundation sources. He has contributed publications in notable journals, including *Nature Medicine* and *The New England Journal of Medicine*. He is a reviewer for numerous journals, including *Human Gene Therapy*, *Translational Research* and *Molecular Therapy*. Dr. Wright serves on national committees for the American Society for Gene Therapy, the Adeno Associated Virus Reference Standard Working Group and the Steering Committee of the National Heart, Lung and Blood Institute Gene Therapy Resource Program.



Gary Wu, M.D.

Professor of Medicine

Dr. Wu is a highly respected basic and translational researcher who is an expert in the molecular pathogenesis of inflammatory bowel disease (IBD). His influential and innovative research focuses on the molecular regulation of gene expression in the colonic epithelium. He has been consistently well-funded for his research. His publications are highly cited and in high-impact journals, including *The Journal of Clinical Investigation*, *Proceedings of the National Academy of Sciences* and *Gastroenterology*. He was elected to the American Society for Clinical Investigation in 2005. Dr. Wu is co-senior associate editor of *Gastroenterology*, a member of the editorial boards of the *American Journal of Physiology* and *Current Drug Targets–Inflammation and Allergy*, and consulting editor of *The Journal of Clinical Investigation*. He has served on many NIH study sections and special emphasis panels, and was Chair of a National Institute of Diabetes and Digestive and Kidney Diseases Study Section in 2007 and 2008. Dr. Wu is an outstanding teacher and mentor of medical students, residents, fellows, graduate students and postdoctoral fellows. He lectures nationally and internationally. He serves as Chair of the Intestinal Disorder Section of the American Gastroenterological Association, and is involved in organizing their scientific and educational programs.



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