



Promoted Faculty



University of Pennsylvania School of Medicine

Reception

MONDAY, SEPTEMBER 21, 2009
5:30 – 7:00 p.m.

BIOMEDICAL RESEARCH BUILDING
Lobby

Promoted Faculty



Program

Welcoming Remarks

Arthur H. Rubenstein, MBBCh

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



Charles S. Abrams, M.D.

Professor of Medicine

Dr. Abrams is a national and international leader in platelet signal transduction whose substantial research contributions have advanced the field. His research focuses on the biochemistry and cell biology of pleckstrin, the major substrate of protein kinase C in platelets, monocytes, lymphocytes, and granulocytes. He is on the editorial boards of *Blood*, *The Journal of Biological Chemistry*, and *Clinical and Translational Science*, and is associate editor of *Hematologist*, *Current Opinion in Hematology*, and *Thrombosis and Haemostasis*. He is Co-Chair of the Hemostasis and Thrombosis Study Section at the NIH Center for Scientific Review. Dr. Abrams has received multiple teaching awards, including the John Glick Prize for Teaching Excellence in Hematology-Oncology and the Donald B. Martin Teaching Service Award from the Department of Medicine. He has been invited to present his work at Gordon Research Conferences, FASEB* conferences, and meetings of the American Heart Association, the International Society on Thrombosis and Haemostasis, and the American Society of Hematology. He serves as Chair of the Hematology Board of the American Board of Internal Medicine, member of the Board of Directors of the American Board of Internal Medicine and Secretary of the American Society of Hematology. He is the 2009 chair of the clinical platelet program for the XXII Congress of the International Society on Thrombosis and Haemostasis.

Katrina Armstrong, M.D., M.S.C.E.

Professor of Medicine

Dr. Armstrong is an accomplished investigator in health services research. Her innovative and multidisciplinary research focuses on the social environment, patient distrust, and health care quality in areas such as genetic testing for cancer susceptibility and racial disparities in cancer outcomes. Her publications are in influential journals, including *Cancer*

Epidemiology, Biomarkers and Prevention, Journal of Clinical Oncology, Journal of the American Medical Association, The New England Journal of Medicine, and Medical Decision Making. She has been recognized for her contributions through her election to the American Society of Clinical Investigation in 2006 and selection as Outstanding Investigator by the American Federation for Medical Research in 2009. She received the Samuel Martin Heath Evaluation Sciences Award, a Penn Medicine Award of Excellence, in 2006. Dr. Armstrong is associate editor for *Advanced Studies in Medicine* and a member of the editorial board of BreastCancer.org, an educational website for patients. She is a grant reviewer for the Cancer Research UK Study Section and has served on study sections for the NIH. Dr. Armstrong excels as teacher and mentor and has an impressive record of leadership. Since 2003, she has been the Co-Director of the Cancer Prevention and Control Program of the Abramson Cancer Center and, in 2006, she was named Associate Director of the Abramson Cancer Center. From 2004 through 2008, she was the Director of Research for the Leonard Davis Institute of Health Economics. She was named Co-Director of the Robert Wood Johnson Clinical Scholars Programs in 2006. In 2008, she was named Division Chief of General Internal Medicine in the Department of Medicine.

Lily A. Arya, M.D.

Associate Professor of Obstetrics and Gynecology at the Hospital of the University of Pennsylvania

Dr. Arya is a highly productive urogynecologist who has achieved national prominence in her field. Her clinical research contributions have focused on office-based and surgical treatment of urinary incontinence and pelvic organ prolapse. She has developed and validated the use of several questionnaires for urinary incontinence that are used for research protocols. She has also developed a robotic pelvic reconstructive surgery program.

She publishes in leading journals in her field, including *Obstetrics and Gynecology, Journal of Urology*, and the *American Journal of Obstetrics and Gynecology*. Dr. Arya established and directs the board-approved fellowship program in urogynecology and pelvic reconstructive surgery, considered to be one of the strongest programs in the country. In acknowledgment of her teaching excellence, she received a teaching award from the Association of Professors in Obstetrics and Gynecology in 2004 and the Faculty Teaching Award for Residents in the Department of Obstetrics and Gynecology in 2006. In 2008, she became the Chief of the Division of Urogynecology and Pelvic Reconstructive Surgery at HUP. She was elected to the prestigious Society of Gynecologic Surgeons that same year. As a member of the Education Committee of the American Urogynecologic Society, she is developing interactive Web-based techniques to teach urogynecology to primary care physicians and medical students.

Laura J. Balcer, M.D., M.S.C.E.

Professor of Neurology at the Hospital of the University of Pennsylvania

Dr. Balcer is a highly accomplished neuro-ophthalmologist whose pioneering research has led to advances in visual measurements for multiple sclerosis and related conditions. She serves on international committees that focus on guiding clinical trials and has established productive collaborations with investigators at Penn as well as other institutions. She is a national leader in neurology in the application of biostatistical methods to clinical research. Dr. Balcer is an outstanding teacher and mentor of medical students, residents, fellows, and biostatistics and epidemiology graduate and doctoral students. In 2005, she received a mentorship award from the graduating neurology residents and, in 2006, she received the Achievement Award from the American Academy of Ophthalmology for excellence in teaching. She presents her work nationally and internationally and has held organizing roles

in major national scientific meetings. In 2004, she was named Chief of the Multiple Sclerosis Division in the Department of Neurology.

Aba Barden-Maja, M.D.

Associate Professor of Clinical Medicine

Dr. Barden-Maja is an excellent and highly productive primary care clinician and an enthusiastic and innovative educator of medical students and residents. She co-directs the ambulatory program for medical residents and participated in updating the curriculum. She has been recognized with several awards including, the Sylvan Eisman Outstanding Primary Care Physician Award, a Penn Medicine Award of Excellence, in 2005, and the Dean's Award for Excellence in Clinical Teaching at an Affiliated Hospital in 2006. Dr. Barden-Maja is a member of the American College of Physicians and the Society of General Internal Medicine.

Christina A. G. Bergqvist, M.D.

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

Dr. Bergqvist is a nationally prominent pediatric epileptologist whose clinical research focuses on the utilization of the ketogenic diet to treat children with intractable epilepsy. She has participated in writing international guidelines for the optimal clinical management of the ketogenic diet. In 2004, she received the American Epilepsy Society Excellence in Pediatric Epilepsy Research Award. She is a reviewer for numerous journals, including *Epilepsy Research, Journal of Pediatrics*, and *Neurology and Pediatrics*. She reviews grants for the Canadian Institute of Health Research. Dr. Bergqvist, an active and committed educator and mentor of medical students and residents, received the Resident's Award for Teaching Excellence in Neurology in 2006. She has presented her research at national meetings of the Child Neurology Society and the American Epilepsy Society. She is a member of a number of professional and scientific societies, including

the American Academy of Neurology, American Child Neurology Society, and the American Epilepsy Foundation. She serves as a member of the scientific advisory board of The Charlie Foundation, an organization established in 1994 to raise awareness on the ketogenic diet as a treatment for childhood epilepsy.

Carolyn L. Cambor, M.D.

Associate Professor of Clinical Pathology and Laboratory Medicine

Dr. Cambor makes outstanding contributions to teaching through her extensive educational activities within her department and the School of Medicine. Her responsibilities on the autopsy service and her strong commitment to medical student education have resulted in a number of innovations. She has also exhibited leadership in course development and mentoring others in the cultivation of teaching skills. She has been the recipient of the Outstanding Course Director and Best Section Leader awards in 2000, 2001, 2006, and 2007. She has also received the Peter C. Nowell Teaching Award in 2000 and the Leonard Berwick Memorial Teaching Award in 2002, a Penn Medicine Award of Excellence. She is active in several national and international medical education organizations and recently hosted the national meeting of the Group for Research in Pathology Education. In 2004, she was named Associate Director of the Section of Medical Pathology.

Rodney M. Camire, Ph.D.

Associate Professor of Pediatrics

Dr. Camire is an innovative, nationally and internationally recognized biochemist who focuses on the molecular and cellular processes that contribute to and regulate blood coagulation. His research projects include the mechanisms responsible for maintaining normal hemostasis and the development of a gene therapy strategy for hemophilia A using novel modifications to the profactor, factor VIII.

His contributions have been recognized with awards from the American Heart Association, the International Society on Thrombosis and Haemostasis, and the Bayer Hemophilia Awards Program. Dr. Camire's publications are in high impact journals, including the *Journal of Biological Chemistry*, *Proceedings of the National Academy of Sciences*, *Journal of Clinical Investigation*, and *Blood*. He serves as an advisory board member of the *Journal of Thrombosis and Haemostasis*, the primary journal in his field. He makes important contributions as an educator and mentor of medical students, graduate students, and postdoctoral fellows in the classroom and laboratory settings. He lectures nationally and internationally, including presentations at the International Society of Thrombosis and Haemostasis and the British Society for Haemostasis and Thrombosis.

Robert K. Cato, M.D.

Associate Professor of Clinical Medicine

Dr. Cato has distinguished himself as an outstanding clinician, educator, and administrator. He is a highly sought-after and respected primary care physician. In recognition of his clinical acumen, he was given the Sylvan Eisman Outstanding Primary Care Physician Award, a Penn Medicine Award of Excellence, in 2001. An active and effective teacher of medical students and residents, he is recognized particularly for his expertise in teaching at the bedside. He has received the Maurice Attie Faculty Teaching Award from the Department of Medicine and the Dean's Award for Excellence in Clinical Teaching at an Affiliated Hospital. He serves as Medical Director of the Penn Center for Primary Care and Chief of the Division of General Medicine at Penn Presbyterian Medical Center. Dr. Cato is a member of the American College of Physicians and the Society of General Internal Medicine.

Kyong-mi Chang, M.D.

Associate Professor of Medicine

Dr. Chang is a leading translational researcher in hepatology and hepatitis immunology who focuses on the immune mechanisms of viral persistence and liver disease progression in patients infected with the hepatitis C virus (HCV). She has developed a Viral Hepatitis Affinity Group among investigators at Penn, The Children's Hospital of Philadelphia, The Wistar Institute, and the Fox Chase Cancer Center. Dr. Chang's publications, many of which are highly cited, are in premier journals, including the *Journal of Clinical Investigation*, *Hepatology*, and *Gastroenterology*. She received the American Gastroenterology Association's Miles and Shirley Fiterman Basic Research Award in 2004 and she was elected to the prestigious American Society for Clinical Investigation in 2007. She is a member of the editorial board of *Hepatology*, associate editor of *Gastroenterology*, and consulting editor for the *Journal of Clinical Investigation*. Dr. Chang is an active member of the American Association for the Study of Liver Disease and the American Liver Foundation, a standing member of the NIH Microbiology and Infectious Disease Committee Study Section, and a member of many other review committees for the NIH.

Vivian G. Cheung, M.D.

Professor of Pediatrics

Dr. Cheung is a prominent investigator in the field of genetics who is making important contributions in human genomics. Her innovative and influential research focuses on the genetic analysis of complex human phenotypes and diseases. She is recognized internationally for her work combining genetic analyses with genomic tools to identify the cis- and trans- regions that influence gene expression. This research has important implications for understanding transcriptional regulation in normal cells and in disease processes. In recognition of the high quality of her research, she was named a Howard Hughes Medical Institute Investigator in 2008. She

is associate editor of *PLoS Genetics*. She has served on NIH study sections and the National Academies Committee on Toxicity Testing and Assessment of Environmental Agents. She has been invited to present her work nationally and internationally. She is a member of the American Academy of Neurology and the American Society of Human Genetics.

Alexander G. Chiu, M.D.

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

Dr. Chiu has emerged as a national leader in the field of rhinology, particularly in the pathogenesis of chronic rhinosinusitis. His cutting edge research involves the development and implementation of an animal model to test the effect of topical medications on the disease. This model has become the standard for testing topical therapeutics throughout the United States. The American Rhinologic Society has honored his contributions with the Young Investigator Award and the Maurice H. Cottle Award. He is on the editorial boards of the *Journal of Otorhinolaryngology and its Related Specialties* and the *American Journal of Rhinology*. Dr. Chiu is also a gifted and innovative surgeon and clinician. He created the Otolaryngic Allergy Center and has served as Director since 2004. He also established one of the leading allergy programs for training residents and fellows. In 2007, he received the Joseph Atkins, M.D. Faculty Resident Teaching Award. He is a key faculty member and course director for the internationally recognized Penn Rhinology course and Co-director for the Penn Rhinology Visiting Mini-Fellowship. He is an active member of the American Rhinologic Society.

George Cotsarelis, M.D.

Professor of Dermatology

Dr. Cotsarelis is an outstanding physician-scientist who is nationally and internationally recognized for his expertise in hair follicle

physiology and pathophysiology. His discovery of keratin 15 as a marker for epidermal stem cells in the hair follicle bulge region is a highly significant finding in the field of skin biology. With this marker he has been able to isolate these epidermal stem cells, a feat with enormous therapeutic implications not only for hair regeneration but also for wound healing and skin cancer. He is associate editor of the *Journal of Investigative Dermatology*, the *Journal of Clinical Investigation*, and an editorial board member of *Cell Stem Cell*. Dr. Cotsarelis is a highly regarded teacher and mentor of medical students, graduate students, residents, and faculty colleagues. For the past 10 years, he has given the lecture on hair biology at the American Academy of Dermatology structure and function course, the premier course for dermatologists and dermatology residents throughout the United States. He has presented his work nationally and internationally at major scientific meetings such as the William Montagna Lecture for the Society for Investigative Dermatology, the John Ebling Lecture at the European Hair Research Society, and the Donald Rivett Memorial Lecture of the Australian Hair and Wool Research Society. In 2006, he was elected to the American Dermatologic Association and, in 2007, to the American Society for Clinical Investigation, two highly selective and prestigious professional organizations.

Douglas A. Coulter, Ph.D.

Professor of Pediatrics

Dr. Coulter is a renowned neurophysiologist who has made important contributions to understanding the cellular and molecular mechanisms of epilepsy. His research focuses on the mechanisms of seizure susceptibility in the epileptic brain, the mechanism linking brain injury to subsequent development of epilepsy, and therapeutic advances stemming from these insights. Dr. Coulter's publications are in highly regarded journals, including *Nature Medicine*, *Proceedings of the National Academy of Sciences*, *Journal of Neuroscience*, and

Journal of Biological Chemistry. He is a member of the editorial boards of *Thalamus and Related Structures* and *Epilepsy Research* and is associate editor of the *Journal of Neuroscience*. He has been a grant reviewer for many international and national foundations and the NIH. He is an active and committed educator and mentor of graduate students and postdoctoral fellows. He has held organizing roles in scientific meetings, including vice chair of a Gordon Research Conference and organizer and chair of the American Epilepsy Society Investigator's Workshop in 2006.

Angela M. DeMichele, M.D., M.S.C.E.

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

Dr. DeMichele is an outstanding oncologist whose clinical and translational research focuses on molecular and genetic markers of outcomes in breast cancer treatment, outcomes and complications of treatment in specific populations of breast cancer survivors, and clinical trials on targeted therapies. In recognition of her research accomplishments, she received the Jane Alavi Award for Cancer Research Excellence from the Abramson Cancer Center in 2007. She is active in many patient based community programs and was instrumental in the establishment of the Living Well After Cancer Program at Penn. Dr. DeMichele contributes to education both within and outside Penn. Since 2004, she has participated as an annual guest lecturer in a course for the NIH. She is active in a number of professional and scientific societies and is Physician Secretary of the American Board of Internal Medicine Medical Oncology Subspecialty Board. She was appointed to the Education Committee of the American Society of Clinical Oncology in 2006 and, in 2007, she was appointed as Track Leader for the Clinical Trials Track Education Committee.

John A. Detre, M.D.

Professor of Neurology

Dr. Detre is a nationally and internationally recognized clinical neurologist who has contributed significantly to the field of functional neuroimaging. He invented arterial spin labeling (ASL), a non-invasive magnetic resonance technique for measuring cerebral blood flow. He uses an interdisciplinary and collaborative approach in his research programs, currently focusing on applications of functional magnetic resonance imaging and ASL to clinical problems, including stroke, migraine, and epilepsy. He has served as Director of the Center for Functional Neuroimaging since 2003. He is associate editor of the *Journal of Neuroimaging*. He has been a permanent member and *ad hoc* member of several NIH study sections. Dr. Detre is an active and committed teacher and mentor of medical students, graduate students, postdoctoral fellows, and residents. He has worked closely with other faculty in the development of the new Ph.D. program in Biomedical Imaging and Informational Sciences, a cross-disciplinary curriculum designed to train scientists at the interface of various fields related to the science of imaging. He is a member of the American Academy of Neurology, the American Association for the Advancement of Science, the National Headache Foundation, and the Stroke Council of the American Heart Association.

J. Alan Diehl, Ph.D.

Professor of Cancer Biology

Dr. Diehl is an accomplished cancer biologist in the field of cell cycle control who is recognized for several seminal observations in this highly competitive area. His research focuses on the regulation and role of cyclin D1 and his laboratory has recently identified the E3 ligase that is responsible for the degradation of cyclin D1. A second area of interest is on the basic mechanisms of the unfolded protein response, focusing on the PERK protein kinase. He is on the editorial boards of *Cancer Biology and Therapy*, *Cell Division*, and *Oncogene*. He is a

charter member of the Molecular Oncology Study Section of the National Cancer Institute. Dr. Diehl is a highly effective teacher and mentor of graduate students, postdoctoral fellows, and residents. He lectures nationally and internationally. He is a member of the American Association for Cancer Research, the American Society for Biochemistry and Molecular Biology, and the American Society for Microbiology, and he serves as Chair of the Cell Cycle and Growth Control Committee of the American Cancer Society.

Kathryn M. Ferguson, Ph.D.

Associate Professor of Physiology

Dr. Ferguson is an innovative structural biologist who focuses on the structural aspects of signaling. Through the use of a combination of structural biology, high quality crystallography, and other biochemical approaches, she has advanced the understanding of the mechanism of action of therapeutic antibodies against the epidermal growth factor receptor (EGFR). In addition to her work on EGFR, Dr. Ferguson has been developing new research directions focused on understanding how molecular recognition events are exploited in other key cellular processes, such as TIR signaling. In 2006, she was named a Dennis and Marsha Dammerman Scholar of the Damon Runyon Cancer Research Foundation. In 2008, she received the Michael S. Brown New Investigator Research Award, a Penn Medicine Award of Excellence. She is a member of the editorial advisory panel for *Biochemical Journal*. Dr. Ferguson is an active and well regarded teacher in the Biochemistry and Molecular Biophysics Graduate Group in both classroom and laboratory settings. She has been an invited speaker, session participant, and session chair at major scientific meetings. She is a member of the Biochemical Society, the Biophysical Society, and the scientific advisory board of the Macromolecular Diffraction Facility at the Cornell High Energy Synchrotron Source.

Barry David Fuchs, M.D.

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

Dr. Fuchs is recognized as a pioneer in the emerging field of patient safety and critical care medicine. He is a highly collaborative clinical researcher who has made contributions in the areas of sepsis, mechanical ventilation, and quality improvement initiatives. He serves as Medical Director of the Medical Intensive Care Unit, as well as Medical Director of Respiratory Care Services at HUP. He achieved institutional and external recognition for his quality and safety improvement initiatives, including awards from the Health System and the Volunteer Hospitals of America. He is on the editorial committee of the Physician Information Education Resource for the American College of Physicians. Dr. Fuchs directs the critical care fellowship program and coordinates the senior medical student clerkship in the HUP MICU. He is active in a number of professional and scientific societies, including the Society of Critical Care Medicine, the American Thoracic Society, and the American Board of Internal Medicine, where he currently serves as Physician Secretary for the Critical Medicine Subspecialty Test and Policy Committee.

Jeffrey A. Golden, M.D.

Professor of Pathology and Laboratory Medicine

Dr. Golden is an accomplished academic pediatric neuropathologist who has advanced the knowledge in early nervous system development. His research on neural tube development, bone morphogenic protein signaling, and the molecular and cellular mechanisms of cell migration have contributed to the understanding of the pathogenesis of human diseases such as epilepsy, cognitive developmental disability, and certain brain malformations. Dr. Golden is responsible for the neuropathology aspects of all neonatal and pediatric autopsies performed at HUP and CHOP, and provides diagnostic services in surgical neuropathology at CHOP. His

publications are in leading journals, including *Proceedings of the National Academy of Sciences*, *Journal of Clinical Investigation*, *Journal of Neuroscience*, and *Nature Genetics*. He is associate editor of the *Journal of Neuropathology and Experimental Neurology* and a member of the editorial boards of *Human Pathology*, *American Board of Pathology*, and *Acta Neuropathologica*. He served as a member of the NICHD CHHD-C Study Section from 2001 through 2005 and as Chairperson from 2004 through 2006. Dr. Golden is a gifted teacher and mentor of medical students, graduate students, postdoctoral fellows, residents, and fellows. He lectures nationally and internationally, including presentations at the International Congress on Pediatric Epilepsy, the European Congress of Neuropathology, the International Symposium of Polymicrogyria Syndromes and Epilepsy, and the Euro-CNS Workshop. He is President of the American Association of Neuropathologists.

Adda Grimberg, M.D.

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

Dr. Grimberg is a distinguished pediatric endocrinologist who has emerged as a leader in the field of disorders of childhood growth and their treatment. Her research interests have evolved from investigating the role of insulin-like growth factor binding proteins in regulating proliferation and apoptosis in normal and cancer cells to health disparities in the gender-based evaluation and treatment of children with short stature. She is an excellent clinician and administrator. She is the co-founder of a new interdisciplinary Prader-Willi Syndrome Program at CHOP and is also Interim Director of the CHOP Diagnostic and Research Growth Center. She is associate editor of *Growth, Genetics and Hormones*. Dr. Grimberg is an active and enthusiastic teacher of medical students, residents, and fellows. She lectures nationally and internationally. She is a member of a number of professional and scientific societies, including The Endocrine Society, the Society for Pediatric Research,

the Federation of American Societies for Experimental Biology, and the Lawson Wilkins Pediatric Endocrine Society.

Robert Gross, M.D.

Associate Professor of Medicine

Dr. Gross is a leader in the pharmacotherapy of HIV, particularly on patient adherence to therapy. He has led the development of a multi-center international clinical trial with the AIDS Clinical Trials Group to investigate adherence intervention in developing countries. He has contributed publications in notable journals, including *AIDS*, *Journal of Acquired Immune Deficiency Syndrome (JAIDS)*, and *AIDS and Behavior*. He is associate editor of *Pharmacoepidemiology and Drug Safety*. He serves on special emphasis panels for the Agency for Health Research and Quality, Centers for Education and Research on Therapeutics, and the National Institute for Child Health and Human Development. Dr. Gross is a talented and committed educator and mentor of medical students, graduate students, residents, and fellows in clinical and classroom settings. He chairs the clinical epidemiology/health services research seminar and co-developed and co-directs the epidemiologic research methods in infectious diseases course in the Department of Biostatistics and Epidemiology. He presents his research nationally and internationally. He is an active member of the International Society of Pharmacoepidemiology, the Infectious Diseases Society of America, the American College of Clinical Pharmacology and Therapeutics, and the American College of Epidemiology.

Murray Grossman, M.D.

Professor of Neurology

Dr. Grossman has achieved national and international recognition in the field of behavioral neurology and dementia. His research focuses on language impairments in a wide range of neurological disorders—including aphasias, dementias, and Parkinson's

disease—using behavioral measures and state-of-the-art imaging techniques. He is widely regarded for his expertise and compassion as a clinician. He is Editor-in-Chief of *Cognitive and Behavioral Neurology* and is on the editorial board of *Neurology*. He has served as a reviewer and member of numerous NIH study sections and special emphasis panels. Dr. Grossman is an active educator nationally and has served as a faculty member for a number of courses at the annual meeting of the American Academy of Neurology. He is a member of a number of professional and scientific societies and has held organizing roles in scientific meetings. He lectures nationally and internationally.

Carmen E. Guerra, M.D.

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

Dr. Guerra is a nationally prominent clinical investigator in cancer control whose multidisciplinary research focuses on the barriers to adoption of cancer screening, the association between health literacy and cancer screening services, and the chemoprevention of colorectal cancer. Her publications appear in leading journals in her field, including the *Archives of Internal Medicine*, *Journal of General Internal Medicine*, and the *Journal of the American Medical Association*. She is on the advisory board of Journal Watch Online. Dr. Guerra is a dedicated and effective teacher and mentor of medical students, residents, and graduate and undergraduate students. She is a member of a number of professional and scientific societies and was recently elected to serve on the Board of Directors of the Pennsylvania Division of the American Cancer Society and as a member of the Professional Education and Practice Task Group of the National Colorectal Cancer Roundtable.

James P. Guevara, M.D., M.P.H.

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

Dr. Guevara makes important contributions to the field of pediatric health services research. He studies the organization, financing, and delivery of behavioral care to children, particularly those children with Attention Deficit Hyperactivity Disorder (ADHD). He has developed a tool, the Collaborative Care for Attention Deficit Disorders Scale, to assess collaborative care practices between primary care providers and mental health professionals in the management of children with ADHD. In 2002, he received the American Pediatric Association Young Investigator Award and, in 2005, was elected into the Society for Pediatric Research. He is on the editorial board of *Academic Pediatrics*. He has served as a reviewer on several NIH study sections. Dr. Guevara is an active and committed educator of medical students, graduate students, residents, and fellows. He is a member of a number of professional and scientific societies, including the American Pediatrics Association, the Association for Health Services Research, and the American Public Health Association.

Sridhar Hannenhalli, Ph.D.

Associate Professor of Genetics

Dr. Hannenhalli is an innovative computational biologist whose methodological and biological research focuses on transcriptional regulation and its evolution. His independent and collaborative investigations focus primarily on the computational identification of transcription factor binding sites, promoter prediction, predicting interaction among transcription factors (TF), and transcriptional modeling. He is on the editorial board of *PLoS ONE*, has served on review panels for the National Institute of General Medical Science and the National Science Foundation, and served on an NIH study section. Dr. Hannenhalli teaches medical students, graduate students, and postdoctoral fellows and is active in the Genomics and Computational

Biology Graduate Group, including serving as Co-director of two courses. He has served on program committees for the Intelligent Systems for Molecular Biology and Research in Computational Molecular Biology conferences.

Elizabeth Ann Hembree, Ph.D.

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

Dr. Hembree is a cognitive behavioral therapist who has made major contributions to the field of anxiety disorders and their treatment, with particular emphasis on post-traumatic stress disorder (PTSD). Her research focuses on the development, efficacy, and effectiveness of cognitive behavioral treatments for anxiety disorders. She is widely known for her prominent role in the research and dissemination of Prolonged Exposure Therapy, a cognitive behavioral treatment for PTSD. She is a member of the editorial board of the *Journal of Anxiety Disorders*. Dr. Hembree has served as Director of Clinical Training at Penn's Center for the Treatment and Study of Anxiety since 2000. She provided training to medical residents and New York City-based mental health professionals after the September 11, 2001 attacks, and has developed a curriculum and organized and taught courses in the behavioral treatment of survivors of terrorist attacks and natural disasters. Dr. Hembree is a member of the American Psychological Association, the Association for Behavioral and Cognitive Therapies, and the International Society for Traumatic Stress Studies, where she is currently a member of the Board of Directors.

Sean Hennessy, PharmD., M.S.C.E.

Associate Professor of Epidemiology in Biostatistics and Epidemiology

Dr. Hennessy is an expert in pharmacoepidemiology and drug safety whose research focuses on using pharmacoepidemiologic methods to study beneficial and adverse

drug effects, evaluating the effects of programmatic efforts to improve medication use, and improving study methods used in pharmacoepidemiology research. In 2008, he was awarded the prestigious and highly competitive Leon I. Goldberg Young Investigator Award from the American Society for Clinical Pharmacology and Therapeutics. He is associate editor of *Pharmacology and Drug Safety* and a member of the editorial board of *Clinical Pharmacology and Therapeutics*. Since 1998, he has served as Director of the Ambulatory Drug Use and Effects Program, an innovative program he developed to improve outpatient medication use, which has received two UPHS Quality Awards. Dr. Hennessy makes substantial contributions to education. He is active in a number of professional and scientific societies, including the International Society for Pharmacoepidemiology, where he served in a number of leadership positions. As an active member participant in Penn's Global Health Program, he is leading a health-based collaboration with the Universidad Peruana Cayetano Heredia in Lima, Peru.

Janet M. Hines, M.D.

Associate Professor of Clinical Medicine

Dr. Hines is an outstanding clinician who is widely known for providing comprehensive and compassionate care for patients with HIV and other infectious diseases. She directs the infectious disease clinic at HUP. Under her leadership, the efficiency and effectiveness of the outpatient practice has been enhanced. As an educator, Dr. Hines is actively involved in the training of medical students, residents, fellows, and nursing students. She has received the Outstanding Course Director Award, the Penn Pearls Teaching Award, and the Leonard Tow Humanism in Medicine Award. She is a member of the Perinatal HIV Expert Panel, a citywide group of HIV care providers who review challenging cases and propose citywide programmatic efforts to minimize the number of HIV infected newborn children.

Michael D. Hogarty, M.D.

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

Dr. Hogarty is a nationally recognized leader in pediatric oncology whose basic and translational research focuses on the development of biologically based therapies that target specific pathways in neuroblastomas. He has advanced the field in his studies of the apoptosis pathways and the role of MYCN in neuroblastoma. He is a reviewer for numerous journals, including *Cancer Research*, *Journal of Clinical Investigation*, and *Clinical Cancer Research*. He has reviewed grants for the Wellcome Trust, the American Association of Cancer Research, and the Alex's Lemonade Stand Foundation grant program. Dr. Hogarty is an outstanding teacher and mentor of medical students, residents, fellows, nurses, nurse practitioners, and faculty colleagues. He lectures nationally and is a member of a number of professional and scientific societies. He is recognized particularly for his participation in the Children's Oncology Group, including leadership of the Neuroblastoma Biology Committee. He has been appointed to the Advisory Board of the Advances in Neuroblastoma Research Association and the International Neuroblastoma Tissue Banking Task Force.

John H. Holmes, Ph.D.

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

Dr. Holmes has emerged as a national and international leader in the field of medical informatics, particularly as it applies to clinical research and epidemiology, as well as in furthering educational initiatives in health informatics. His transdisciplinary research focuses on knowledge discovery and data mining applications in biomedical research, patient-physician communication, and clinical research informatics. He serves on several national committees, including the Health Research Dissemination and Implementation

study section at the Agency for Healthcare Research and Quality (AHRQ) and many special emphasis panels and study sections for the National Library of Medicine and AHRQ. He is Chair of the Evaluation Working Group for the Centers for Population Health and Health Disparities at the NIH. Dr. Holmes serves as course director, instructor, and guest lecturer in the masters and doctoral programs in his department, as well as in the masters programs in Public Health and Nursing. In 2005, he received the Department of Biostatistics and Epidemiology Teaching Award in Epidemiology. He is currently developing an on-line, interactive educational resource for training clinical researchers in data management, which is funded by the National Library of Medicine. Dr. Holmes has been recognized by his peers through his election as a fellow in the American College of Medical Informatics in 2006, a highly selective society, and member of the American College of Epidemiology.

Jimmy W. Huh, M.D.

Associate Professor of Anesthesiology and Critical Care at the Hospital of the University of Pennsylvania and The Children's Hospital of Philadelphia

Dr. Huh has achieved national recognition as an expert in pediatric traumatic brain injury. Using a rodent model, he focuses on the age dependent mechanisms of neurodegeneration and cell death following accidental traumatic brain injury and the pathology of non-accidental repetitive pediatric brain injury, or "shaken baby" syndrome. Dr. Huh is an excellent clinician who directs patient care management in the Pediatric Intensive Care Unit and the Progressive Care Unit. He is a grant reviewer for the Department of Defense. He is a dedicated and distinguished teacher of residents, fellows, and medical students, as evidenced by his many teaching awards, including receiving the David Cornfeld Bedside Teaching Award at CHOP in 2001 and selection for the CHOP Faculty Teaching Honor Roll in 2003 and 2004. He lectures nationally, including presentations at national symposia and meetings.

Jeffrey R. Jaeger, M.D.

Associate Professor of Clinical Medicine

Dr. Jaeger excels as a clinician and teacher. His skills as a clinician were recognized with receipt of the Sylvan Eisman Outstanding Primary Care Physician Award, a Penn Medicine Award of Excellence, in 2003. He is a dedicated and effective educator who serves as Assistant Program Director for the Internal Medicine Residency Program, with responsibility for developing, implementing, and maintaining a quality improvement curriculum for the residents. His commitment to domestic violence prevention has led to national recognition, particularly for incorporating routine screening for intimate partner violence into healthcare. He has served on many national task forces, including continuing membership on the Health Policy Committee for the Society of General Internal Medicine and the task force on Men and Domestic Violence of the Family of Violence Prevention Fund. He has been influential through his leadership in the Institute for Safe Families.

Scott E. Kasner, M.D.

Professor of Neurology at the Hospital of the University of Pennsylvania

Dr. Kasner is a national and international leader in stroke treatment and prevention. He is an outstanding neurologist and clinical investigator whose research focuses on the diagnosis and management of cerebrovascular disease. He is recognized particularly for his leadership in an important National Institute of Neurological Disorders and Stroke (NINDS) multi-center Warfarin Aspirin Symptomatic Intracranial Disease national trial and for his work on evidence-based guidelines with the American Academy of Neurology. He is an editor for the stroke section of UpToDate. He participated on the NIH/NINDS Stroke Progress Review Group in 2006-2007, serving as an advisor on the NIH research agenda for stroke. Dr. Kasner is a respected and committed teacher and mentor of medical students, residents, and fellows. He is a member of a number

of professional and scientific societies and has served on numerous committees for the National Stroke Association and the American Heart Association (AHA). Since 2007, he has been chair of the AHA Stroke Oversight Committee, which directs the development of all of the AHA stroke council's official papers on stroke guidelines. In 2003, he was awarded the AHA's Outstanding Leadership Award.

Vera Krymskaya, Ph.D.

*Associate Professor of Medicine**

Dr. Krymskaya is an innovative investigator whose research focuses on smooth muscle cell signal transduction and on the pathogenesis of lymphangiomyomatosis (LAM). Her seminal discovery of the function of the tumor suppressor gene tuberous sclerosis complex (*TSC2*) in LAM disease has advanced translational LAM research and paved the way for rapamycin clinical trials. She is actively pursuing new directions of research in cancer, pulmonary vascular diseases, and another rare disease, Birt-Hogg-Dube Syndrome, in collaboration with a number of investigators at and outside of Penn. She is a reviewer for numerous journals, including *Cancer Research*, *Molecular Cancer Therapeutics*, *American Journal of Respiratory Cell and Molecular Biology*, and *Journal of Cellular Biochemistry*. She has served as a reviewer for the NIH, the Department of Defense, and the Tuberous Sclerosis Alliance. She is recognized as an effective and successful mentor of postdoctoral fellows, subspecialty fellows, junior faculty, and students.

Curtis P. Langlotz, M.D., Ph.D.

Professor of Radiology at the Hospital of the University of Pennsylvania

Dr. Langlotz is a leader in outcomes research, medical informatics, and structured reporting in radiology. His research focuses on the development and evaluation of standard medical vocabularies, image reporting systems, and decision support tools to enhance the quality

of radiology practice. He led a number of volunteers through the Radiological Society of North America to establish RadLex®, a lexicon for uniform indexing and retrieval of radiology information resources, a seminal contribution. He serves as Medical Director of Information Services for the Health System, Director of the Center for Imaging Informatics and Health Services Research, and Vice Chair of Informatics for the Department of Radiology. He is on the editorial boards of the *Journal of Biomedical Informatics* and the *Journal of Digital Imaging*, and serves as an editorial consultant for *Academic Radiology*. Dr. Langlotz is an excellent teacher and mentor of medical students, residents, fellows, and graduate students in epidemiology and biostatistics. He is a member of a number of professional and scientific societies and holds many leadership positions, including President of the Society for Imaging Informatics in Medicine, Chair of the Structured Reporting Committee for the Radiological Society of North America, and member of the Board of Directors of the Association of University Radiologists.

Ronald S. Litman, D.O.

Professor of Anesthesiology and Critical Care at the Hospital of the University of Pennsylvania and The Children's Hospital of Philadelphia

Dr. Litman is an accomplished and productive academic pediatric anesthesiologist whose innovative research focuses on the areas of pediatric airway management and sedation and whose substantial contributions have changed the practice in pediatric sedation. He is a national leader in the field of malignant hyperthermia, an inherited condition triggered by general anesthetics, which causes increased carbon dioxide excretion, muscle rigidity and fever, and resulting in death if not treated immediately. In recognition of his leadership in this area, Dr. Litman received the Malignant Hyperthermia Association of the U.S. Hotline Partnership Award in 2005. He is on the editorial advisory board of *Pediatric Anesthesia*. Dr. Litman makes substantial

*Faculty appointment has been converted to tenure.

contributions to resident education. He is Associate Director of the Pediatric Anesthesia Fellowship Program and is credited with expanding the curriculum. He presents his work nationally and internationally, and has had organizing roles in numerous scientific meetings. He has been an active member of professional and scientific societies.

Brian Litt, M.D.

*Associate Professor of Neurology and Bioengineering**

Dr. Litt is an outstanding academic neurologist and epileptologist who is recognized for his contributions in seizure prediction and treatment. Since his landmark observation that the cascade of events leading to seizure begins up to several hours before clinical onset, his interdisciplinary and pioneering research has focused on seizure prediction, seizure generation, and implantable devices for the treatment of epilepsy using techniques derived from complex modeling and bioengineering perspectives. He is a member of the NIH Clinical Neuroscience and Disease Study Section, *ad hoc* member of additional NIH study sections, and a grant reviewer for other national and international organizations, including the National Science Foundation, the Research Board of Canada, and Epilepsy Research UK. Dr. Litt is an inspiring teacher in the schools of Medicine and Engineering and Applied Science. He is active in a number of professional and scientific societies, including the American Epilepsy Society, American Academy of Neurology, American Neurological Association, and the IEEE Engineering in Medicine and Biology Society.

Eline T. Luning Prak, M.D., Ph.D.

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

Dr. Luning Prak is an accomplished immunologist whose research focuses

on understanding B cell development and tolerance induction. She is a valued collaborator in translational research, applying her knowledge of the basic mechanisms of receptor editing to the analysis of human autoimmune disease. Her laboratory also performs flow cytometry for numerous clinical trials across Penn. She is an associate editor for the *Journal of Biomedicine and Biotechnology*. She is a member of the Molecular Immunology Study Section of the Arthritis Foundation. Dr. Luning Prak is an outstanding teacher whose contributions have been recognized with receipt of the Outstanding Discussion Group Leader by Penn Medical Students in 2001, the Peter C. Nowell Award for Excellence in Teaching in 2004, and the Leonard Berwick Memorial Teaching Award in 2005. She serves as Co-director of the residency training program for her department. She was recently invited to chair a workshop at the Keystone Symposium on B cells in health and disease.

Minghong Ma, Ph.D.

Associate Professor of Neuroscience

Dr. Ma's novel, pioneering research is advancing the field of olfaction. She focuses on how the nose and brain encode and decode olfactory information, which allows the mammalian olfactory system to detect and discriminate thousands of odors in the environment. Her publications appear in high impact journals, including *Proceedings of the National Academy of Sciences*, *Nature Neuroscience*, *Journal of Neuroscience*, and *Molecular and Cellular Neuroscience*. Dr. Ma's contributions to the field were recognized with the Polak Young Investigator Award from the Association for Chemoreception Sciences (ACChemS) in 2007, a highly sought after award in the field of olfaction. She is on the editorial advisory board for the *Encyclopedia of Life Sciences*. Dr. Ma teaches and mentors medical and graduate students. She has also been an invited lecturer in the undergraduate and graduate programs of the Department of Biology for the last five years. Dr. Ma is a member of the

Society for Neuroscience and the ACChemS, where she is a member of the program committee. In 2007, she chaired a successful symposium for the ACChemS annual meeting.

Andrew D.A. Maidment, Ph.D.

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

Dr. Maidment is a leading medical physicist who focuses on medical imaging physics, particularly digital mammography and tomosynthesis. His research focuses on the efficacy of contrast-enhanced tomosynthesis for diagnosis and treatment of breast cancer and development of image based biomarkers of breast cancer risk. He serves as technical editor for a handbook on the physics of diagnostic radiology and is on the editorial advisory board of *Decisions in Imaging Economics*. Dr. Maidment is a highly regarded teacher of medical students, residents, fellows, and undergraduate and graduate engineering students. He is course director for the radiological physics course taught to first year residents. Working with Drs. James Gee and Peter Davies, he was instrumental in obtaining a grant from the Howard Hughes Medical Institute and National Institute of Biomedical Imaging and Bioengineering Interfaces Initiatives program to establish a new interdisciplinary graduate education program. He is an active member of a number of professional and scientific societies, including the American College of Radiology, the American Association of Physicists in Medicine, and the Association of University Radiologists.

Petar Mamula, M.D.

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

Dr. Mamula is an outstanding pediatric gastroenterologist who is renowned for his innovative work in inflammatory bowel disease (IBD) and technical gastroenterology. His clinical research achievements include

leadership in multicenter clinical trials evaluating new biological therapies for the treatment of IBD, development of a new pediatric ulcerative colitis activity index, report on the role of anti-TNF antibodies in pediatric Crohn's disease, and identification of novel pediatric onset susceptibility loci. His 2007 publication in *Gastrointestinal Endoscopy* documenting the safety and effectiveness of moderate sedation for pediatric endoscopy is considered a landmark study. He is senior editor of a new textbook, *Pediatric Inflammatory Bowel Disease*, the first pediatric textbook on this subject. Dr. Mamula was named to the CHOP Pediatric Resident Teaching Honor Roll in 2007. He is a member of scientific committees including the Endoscopy and Procedures Committee of the North American Society for Pediatric Gastroenterology, Hepatology and Nutrition as well as the Emerging Technologies Committee and the Annual Scientific Program Committee of the American Society of Gastrointestinal Endoscopy.

Katherine L. Margo, M.D.

Associate Professor of Family Medicine and Community Health at the Hospital of the University of Pennsylvania

Dr. Margo is an expert in medical education and training, particularly in the areas of primary care and family medicine. She is also admired as a highly skilled and compassionate clinician. Dr. Margo has been recognized for her teaching and clinical contributions with numerous awards, including the Exemplary Teaching Award from the Pennsylvania Academy of Family Physicians in 2003, the Penn Pearls Teaching Award for Exceptional Teaching in Clinical Medicine in 2004, the Residency Award for Clinical Care in 2007, and the Leonard Tow Humanism in Medicine Award in 2008. She is an active member of a number of professional and scientific societies, including the Society of Teachers of Family Medicine (STFM), the National Board of Medical Examiners, and the Alliance for Clinical Education. She is the founding director of the

* Faculty appointment has been converted to tenure.

STFM Predoctoral Directors Development Institute, a national faculty development program for clerkship directors in family medicine. In 2008, she served as Chair of the STFM Predoctoral Education Conference. She is also active in the American Balint Society, an organization that promotes better understanding of the doctor-patient relationship.

Giacomina Massaro-Giordano, M.D.
Associate Professor of Clinical Ophthalmology

Dr. Massaro-Giordano excels as physician and educator. She is a highly regarded ophthalmologist, the “go to” consultant for patients with dry eye conditions and other ocular surface disorders, and is sought out for cataract surgery. She was recognized as one of “America’s Top Ophthalmologists” in 2004, 2006, and 2007. As a teacher and mentor of medical students and residents, she has an exceptional ability to balance patient care with teaching. She is a member of a number of professional and scientific societies, including the Tear Film and Ocular Surface Society, American Academy of Ophthalmology, and the American Society of Cataract and Refractive Surgery. In 2003, she received the European Academy for Economic and Cultural Relations Award for Academic Ophthalmology.

James S. Meyer, M.D.
Professor of Radiology at The Children’s Hospital of Philadelphia

Dr. Meyer is a distinguished leader in pediatric radiology, recognized for his expertise in pediatric oncologic radiology and the imaging of pediatric musculoskeletal disorders. He has been instrumental in the development of guidelines for the use of imaging for children with osteosarcoma and Ewing’s sarcoma. As an integral member of the Children’s Oncology Group (COG), he is involved in the development and administration of COG clinical and research protocols. He was

the CHOP principal investigator on two national imaging studies: the NIH sponsored Radiology Diagnostic Oncology Group and the American College of Radiology Imaging Network. He is on the editorial board of *Pediatric Radiology* and is a reviewer for *Pediatric Emergency Care* and *Journal of Clinical Ultrasound*. Dr. Meyer is a highly regarded teacher of medical students, residents, fellows, and faculty colleagues. He is a member of a number of professional and scientific societies, including the Radiologic Society of North America and the Society for Pediatric Radiology. He served as Chair of the Pediatric Committee of the Radiologic Society of North America RadLex® Steering Committee, charged with developing a lexicon for use in radiology clinical, research, and teaching activities.

Natasha Mirza, M.D.
Professor of Otorhinolaryngology: Head and Neck Surgery at the Hospital of the University of Pennsylvania and the Veterans Administration Medical Center

Dr. Mirza is a nationally prominent academic otolaryngologist with expertise in voice and swallowing disorders and taste and smell impairments. Her clinical research has focused on laryngology, smell and taste disorders, and upper airway management. She has been Chief of the Division of Otolaryngology at the VAMC since 1995, and Director of the PennVoice and Swallowing Center at Penn Presbyterian Medical Center and the Hospital of the University of Pennsylvania since 2004. Dr. Mirza excels as a teacher and mentor of medical students, residents, fellows, and junior faculty. She is a member of a number of professional and scientific societies, serves on the American Academy of Otolaryngology–Head and Neck Surgery Neurology Subcommittee, and is Secretary for the Association of Veterans Affairs Otolaryngologists. She has served as Program Chair for the Annual Scientific Meeting of the Pennsylvania Academy of Otolaryngology–Head and Neck Surgery. She was elected to the prestigious Triological Society in 2007 and the American Laryngological Association in 2008.

Hiroshi Nakagawa, M.D., Ph.D.
Research Associate Professor of Medicine

Dr. Nakagawa is an independent and collaborative investigator who is making important contributions with translational implications in upper gastrointestinal cancers. He uses novel *in vitro* and *in vivo* approaches to focus on the molecular mechanisms underlying oral–esophageal squamous epithelial carcinogenesis. Dr. Nakagawa’s publications appear in leading journals such as *Gene and Development*, *Oncogene*, *Gastroenterology*, and *Journal of Biological Chemistry*. He was the recipient of the highly competitive and prestigious American Gastroenterological Association’s Foundation for Digestive Health and Nutrition Research Scholar Award in 2003 and the Austrian Award in Bench Science Research from the Department of Medicine in 2006. He is on the editorial board of *World Journal of Gastroenterology*. Dr. Nakagawa has co-chaired several research symposia for the primary meeting in gastroenterology, Digestive Disease Week, between 2002 and 2007. He is invited to present his work nationally and internationally.

Michael Ostap, Ph.D.
Professor of Physiology

Dr. Ostap is an internationally recognized myosin biochemist and biophysicist whose research focuses on the molecular properties of the cellular roles of the non-muscle myosins, particularly the myosin I class of motors. Dr. Ostap has contributed numerous publications in leading journals, including a 2008 high-profile publication in *Science*. He is a member of the editorial boards of the *Journal of Muscle Research and Cell Motility and Biophysical Journal*. He serves as a member of the Basic Cell and Molecular Biology 4 study section of the American Heart Association, has served on an NIH study section, and served on the Board of Scientific Counselors for the National Heart, Lung and Blood Institute. Dr. Ostap makes significant contributions as a teacher and mentor of medical, graduate, and

veterinary students. He has served as course director of BIOM 600, which is a core course in the Biomedical Graduate Studies program. He received the Dean’s Award for Excellence in Graduate Student Training in 2006. He was elected Vice-Chair of the 2011 Gordon Research Conference “Muscle: Contractile Proteins” and Chair of the 2014 conference.

Stephen M. Paridon, M.D.
Professor of Pediatrics at The Children’s Hospital of Philadelphia

Dr. Paridon is a prominent pediatric cardiologist who is known for his expertise in exercise physiology in children with congenital and acquired heart disease. He has made significant contributions to quality assurance and quality improvement initiatives. He is acknowledged for participating in and chairing important committees at both the American Heart Association and the American College of Cardiology that set the standard for the treatment of children after the Fontan procedure and established guidelines for pediatric stress testing. He is associate editor of *Pediatric Exercise Science*. Dr. Paridon is an active and effective educator and mentor of medical students, residents, and fellows. He is leading the writing committee of the joint American Heart Association/American College of Cardiology committee to establish requirements for training pediatric cardiology fellows. He lectures nationally and internationally, including scientific sessions of the American Heart Association and the American College of Cardiology. He is a member of the American College of Cardiology, American College of Sports Medicine, American Academy of Pediatrics, and the North American Society of Pediatric Exercise Medicine.

Daniel E. Polsky, Ph.D.

Professor of Medicine

Dr. Polsky is an influential and innovative collaborative and independent researcher in health economics and health services research. His areas of interest include health insurance and financial access to health care, economic evaluation of medical and behavioral health interventions, and the health care workforce. In 2007–08, he served as Senior Economist on health issues for President Bush's Council of Economic Advisers. His book, *Economic Evaluation in Clinical Trials*, is considered the standard for best practices in the field. He is on the editorial boards of *Pharmacoeconomics* and *Medical Decision Making*. He has been an *ad hoc* member of several national scientific review committees and special emphasis panels, and is currently a standing member of the NIH Health Services Organization and Delivery Study. Dr. Polsky contributes significantly to the education of undergraduate and graduate students, postdoctoral fellows, and Robert Wood Johnson Clinical Scholars at the School of Medicine and the Wharton School. He had a key role in creating the Masters of Science in Health Policy Research program. He is a member of national and international professional and scientific societies and has held organizing roles for national and international meetings.

Jill C. Posner, M.D.

Associate Professor of Clinical Pediatrics

Dr. Posner is a highly regarded emergency medicine specialist who is recognized particularly for her empathetic and compassionate care. She makes key contributions as a dedicated medical educator of medical students, residents, and fellows. In 2006, she was appointed Associate Director of Education, at the Division of Emergency Medicine and, in 2007, Co-Director of the Pediatric Emergency Medicine Fellowship at CHOP. Under her leadership, the education and training of over 300 residents that rotate through the CHOP Emergency Department

has been enhanced, including introducing simulation technology into the core curriculum. She has been elected to the Faculty Teaching Honor Roll at CHOP numerous times and, in 2008, was awarded the first York Hospital Annual Teaching Award from the York emergency medicine residents. She is a reviewer for numerous journals, including *Pediatric Emergency Care*, *Annals of Emergency Medicine*, and *Academic Emergency Medicine*.

John P. Pryor, M.D.

Associate Professor of Surgery at the Hospital of the University of Pennsylvania (awarded posthumously)

Dr. Pryor was a nationally prominent surgeon in the field of trauma and surgical critical care. His research was focused on trauma, critical care, and emergency general surgery, and included penetrating chest injuries, the identification and follow-up of incidental injuries, and a prospective study of public perceptions of emergency surgery services. He was on the editorial board of the *Journal of Emergency Medical Services* and was an *ad hoc* reviewer for three additional journals. Dr. Pryor was regarded as an outstanding educator, mentor, and role model for medical students, nursing students, residents, and fellows. He was the faculty advisor for a student organization dedicated to exploring trauma as a career, the Penn Association for the Surgery of Trauma. He received the Fellows Teaching Award from the Division of Trauma and Surgical Critical Care in 2007 and 2008. In 2006, he was named Trauma Program Director, with responsibilities for all administrative, clinical practice, data management, and performance improvement aspects of the trauma program and service. Dr. Pryor was responsible for the oversight of the formal educational programs of the Division as the Medical Director of the Office of Life Support Education. He was active in several professional and scientific societies, including the Eastern Association for the Surgery of Trauma, the Society of Critical Care Medicine, and the American Association for the Surgery of Trauma.

Mary Putt, Ph.D.

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

Dr. Putt is a highly accomplished collaborative biostatistician who has had a significant impact on the design, execution, and analysis of numerous clinical research projects. She provides the statistical methodology for projects in the fields of cardiovascular medicine and cancer. In 2007, she became the director of the biostatistics and bioinformatics core for the Penn Cardiovascular Institute. Her methodological research focuses on crossover trial analysis and design, particularly on issues involved in implementing crossover trials in clinical settings. She is a statistical editor for *Gastroenterology*. She has served as a standing member of the National Institute of Allergy and Infectious Diseases study section on Mechanisms in Immunomodulation Trials and as an *ad hoc* member of two NIH study sections. She has been a grant reviewer for the Natural Sciences and Engineering Research Council of Canada. Dr. Putt is a committed teacher in the biostatistics graduate program, including serving as a course director, and an excellent mentor.

Patrick M. Reilly, M.D.

Professor of Surgery at the Hospital of the University of Pennsylvania

Dr. Reilly is a leader in trauma surgery and surgical critical care whose contributions have advanced patient care and improved patient outcomes. In 2004, he was awarded the Patient Safety Innovator Award from the Health System. Since 1997, he has been Program Director of the surgical critical care fellowship and Clinical Director of the Rhoads surgical intensive care unit at the Hospital of the University of Pennsylvania. In 2006, he was named Vice Chief of the Division of Trauma and Surgical Critical Care. Dr. Reilly is an outstanding teacher and mentor of medical students, residents, and fellows. He has received the Trauma/Surgical Critical Care Fellows' Teaching Award four times. Under his

leadership, the surgical critical care fellowship has thrived and is nationally recognized and respected. Dr. Reilly also has a leadership role in a number of professional and scientific societies, including serving as Chair of the Pennsylvania Committee on Trauma of the American College of Surgeons since 2008 and President of the Eastern Association for the Surgery of Trauma, the leading specialty organization in the field, in 2009. Since 2005, he has chaired the Program Committee of the Eastern Association for the Surgery of Trauma.

Myrna R. Rosenfeld, M.D., Ph.D.

Professor of Neurology at the Hospital of the University of Pennsylvania

Dr. Rosenfeld is an accomplished neuro-oncologist whose research focuses on defining the cellular and molecular mechanism of paraneoplastic syndromes. In addition to having a substantial role in defining the Hu antigen, Dr. Rosenfeld and, her primary collaborator, Dr. Josep Dalmau, have described the Ma antigen and, more recently, the NMDA receptor as targets of distinct paraneoplastic syndromes. She has been instrumental in establishing a renowned clinical program in neuro-oncology. Under her leadership, the National Cancer Institute-funded New Approaches to Brain Tumor Therapy Consortium has become a model for enrolling new patients and received an award for excellence in data management. She is on the editorial boards of *UpToDate Neurology*, *Community Oncology*, and *Clinical Cancer Research*. She has served on NIH and Department of Defense medical research program study sections and is currently on the Investigational Drug Steering Committee of the Cancer Therapy Evaluation Program at the National Cancer Institute. Dr. Rosenfeld has established a successful fellowship program in neuro-oncology. She served as Course Director for the American Academy of Neurology "Neuro-oncology Update" in 2007 and 2008.

David Rubin, M.D.

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

Dr. Rubin is an innovative researcher and leader in children's health service research, particularly foster care in the child welfare population. His research focuses on health policy and practice for vulnerable populations and has informed social and policy work at the local, state, and national levels. He has been elected to membership of the Ray Helfer Society—the honorary professional society for physicians who seek to provide leadership to enhance the prevention, diagnosis, and treatment of child abuse and neglect—and the Society for Pediatric Research. He serves as Co-Director of the Center for Child, Family and Community Health, a new center focusing on child health policy research, that was recently approved by The Joseph Stokes, Jr. Research Institute at CHOP. Dr. Rubin is an outstanding educator. Under his leadership, the pediatric clerkship has become one of the top rated at the School of Medicine. In 2005, he received a Penn Pearls Teaching Award. He presents his work nationally, including testifying before the House of Representatives, the Senate, and the Congressional Hispanic Caucus.

Richard Rutstein, M.D.

Professor of Pediatrics at The Children's Hospital of Philadelphia

Dr. Rutstein is a nationally prominent clinician and researcher in pediatric HIV whose work has had significant impact on the care provided to children with HIV. He is an influential and respected participant in the two national pediatric HIV treatment guidelines committees. Dr. Rutstein investigates a wide range of HIV-related topics, with particular emphasis on HIV clinical trials in children and HIV epidemiology. He is highly regarded for his successful leadership of several key pediatric HIV clinical trials in the largest NIH-supported research network, the International Maternal Pediatric Adolescent AIDS Clinical Trials Group. Dr. Rutstein excels as a teacher and

mentor of medical students, residents, fellows, and faculty colleagues. He established an elective in HIV/Immunology and Infectious Diseases for the medical students. He is a Fellow of the American Academy of Pediatrics.

Jack Rychik, M.D.

Professor of Pediatrics at The Children's Hospital of Philadelphia

Dr. Rychik is a preeminent leader in pediatric and fetal cardiology, particularly pediatric echocardiography. His research focuses on the diagnosis, physiology, and management of patients with a single ventricle heart and the anatomy and physiology of the developing fetal heart. He has been instrumental in the development of guidelines and standards for fetal echocardiography. He serves on the editorial boards of *Fetal Diagnosis and Therapy* and *Congenital Heart Disease: Clinical Studies from Fetus to Adulthood*, as well as on the editorial advisory board of *Progress in Pediatric Cardiology*. Dr. Rychik is a highly regarded teacher and mentor of medical students, residents, and fellows. He designed the echocardiography training for the pediatric fellowship program at CHOP. He is an active member of a number of several professional and scientific societies, and has served as Chair of the Pediatric Council of the American Society of Echocardiography. In 2006, he was elected for a three year term to the Board of Directors of the American Society of Echocardiography. Since 2001, he has served as Director of the Fetal Heart Program at CHOP, one of the largest programs of its kind in the United States, performing more than 2,000 echocardiographic studies annually.

Prithvi S. Sankar, M.D.

Associate Professor of Clinical Ophthalmology

Dr. Sankar has achieved wide recognition as an expert in glaucoma. He is also an inspiring teacher who contributes extensively to medical student teaching as Director of the Medical Student Teaching Program. He is responsible for

the coordination of medical student education for the first, second, and third year clinical rotations. He supervises the clinical training of residents and fellows in the glaucoma clinic. He has been the recipient of four teaching awards, including the Surgical Teaching Award, the Dean's Award for Excellence in Clinical Teaching at an Affiliated Hospital, and two Golden Apple Awards for Resident Teaching. He is also involved in regional and national continuing medical education courses. He is a member of the Compass Committee of the American Academy of Ophthalmology and the Association of University Professors of Ophthalmology MedEd Consortium.

Kathryn H. Schmitz, Ph.D.

Associate Professor of Epidemiology in Biostatistics and Epidemiology

Dr. Schmitz is a highly productive investigator who combines exercise physiology and epidemiology to focus on the health consequences of physical activity. Her independent and multi-disciplinary research addresses the physiologic effects of exercise training in cancer prevention, cancer treatment, and obesity. In 2006, she was the recipient of the Trudy Bush Fellowship for CVD Research in Women's Health from the American Heart Association. In 2008, the School of Medicine recognized her achievements with the Marjorie A. Bowman New Investigator Research Award, a Penn Medicine Award of Excellence. She is associate editor of *Medicine and Science in Sports and Exercise* and is on the editorial board of *Cancer Epidemiology, Biomarkers & Prevention*. She has participated in NIH study sections and special emphasis panels and working groups for the National Cancer Institute (NCI), including serving as Chair of the Biomarkers Working Group for the NCI program Transdisciplinary Research on Energetics and Cancer. Dr. Schmitz makes substantial contributions to graduate student education. She is a member of a number of professional and scientific societies, including the Department of Health and Human Services Physical Activity

Guidelines Advisory Committee, the Lance Armstrong Foundation/YMCA Cancer Survivorship Collaborative Expert Panel, the National Lymphedema Network, and the American Association for Cancer Research.

Robert A. Schnoll, Ph.D.

Research Associate Professor of Psychology in Psychiatry

Dr. Schnoll is an outstanding independent and collaborative investigator in the field of treatment of nicotine dependence and health behavior research. His research focuses on improving pharmacotherapy for the treatment of nicotine dependence, understanding and treating nicotine dependence among cancer patients, and promoting best practices for physician-delivered nicotine dependence treatments. He has a history of successful grant funding. He has contributed publications in leading journals, including the *Journal of Clinical Oncology*, *Journal of the National Cancer Institute*, and *American Journal of Preventative Medicine*. He is associate editor of *Annals of Behavioral Medicine*, *Cancer Prevention Research*, and *Pharmacogenomics and Personalized Medicine*. Dr. Schnoll has a grant reviewer for the NIH and served as a member of an expert panel on tobacco control for the American Medical Association. He has been Co-Chair of the program committee for the annual meeting of the Society for Research on Nicotine and Tobacco (SRNT), the largest scientific meeting on tobacco dependence, in 2007 and 2008. In 2008, SRNT honored his accomplishments with the Distinguished Service Award.

Deborah A. Sesok-Pizzini, M.D.

Associate Professor of Clinical Pathology and Laboratory Medicine

Dr. Sesok-Pizzini is an excellent clinician, committed educator, and respected administrator. As Medical Director of the Blood Bank and Transfusion Service at CHOP, she is responsible for ensuring that the testing, storage,

and issuance of blood products are performed within quality and regulatory standards. Dr. Sesok-Pizzini is a devoted and effective teacher of medical students, residents, and fellows. She has been invited to participate in continuing medical education programs. She is on the editorial board of *Transfusion*, and serves as a reviewer for the *Journal of Clinical Apheresis*, *Clinical Microbiology*, and ASCP's *Check Sample*. She is an active member of AABB Advancing Transfusion and Cellular Therapies Worldwide, the American Society of Clinical Pathology, the College of American Pathologists, and the American Red Cross. Dr. Sesok-Pizzini has been a driving force in quality improvement. Her contributions in this area were recognized in 2004 with an institutional award for "Excellence, Innovation, and Outstanding Leadership as Patient Safety Officer."

Richard P. Shannon, M.D.

*Frank Wister Thomas
Professor of Medicine**

Dr. Shannon's achievements encompass the areas of translational research, clinical cardiology, teaching, and administration. He is a nationally recognized cardiologist with special expertise in the area of heart failure. He has made substantial contributions to research in cardiomyopathy and heart failure and large animal physiology, focusing on such areas as cocaine cardiomyopathy and the effects of diabetes and insulin resistance on heart failure. Additionally, his pioneering work in patient safety was recently featured on the PBS special "Remaking American Medicine." He is a member of several editorial boards. Dr. Shannon clearly values his responsibility as a teacher, having received numerous teaching awards in his career and winning high praise from Penn Medicine students for his popular "professor rounds" in internal medicine. He is a frequently invited lecturer and has had organizing roles in the scientific meetings of the American Heart Association. Dr. Shannon was recruited to the University of Pennsylvania in 2006 as Vice Chair for Clinical Affairs in the

Department of Medicine, a new and critical leadership position. Less than one year later, following a rigorous and intensive national search, Dr. Shannon was identified as the best qualified candidate to serve as Chief Executive Officer of his department, one of the premier departments of medicine in the country.

Guido Silvestri, M.D.

*Associate Professor of Pathology
and Laboratory Medicine**

Dr. Silvestri is an international leader in the field of HIV pathogenesis. He uses sooty mangabeys (an African monkey species) and other nonhuman primate models to focus on understanding the pathogenesis of the AIDS-associated depletion of CD⁺ T lymphocytes. The goal is to apply his findings to the development of new, immune-based therapies for HIV infection and the design of T cell-based AIDS vaccines. He has been successful in securing extramural funding to support his research. Dr. Silvestri has contributed peer-reviewed publications in high quality journals, such as *Cell*, *Nature Medicine*, *Journal of Immunology*, *Blood*, and the *Journal of Virology*. He is associate editor of the *Journal of Immunology*, and a member of the editorial boards of the *Journal of Virology*, *Clinical Microbiology Reviews*, *BioMed Central Infectious Diseases*, and the *Journal of Infectious Diseases*. He has been a member of national peer review panels, including the NIH/NCI AIDS Vaccine Program Scientific Review Panel and international grant review panels in Canada, France, and Italy. Dr. Silvestri is a committed and effective teacher of medical students, graduate students, residents, and fellows. He lectures at prominent meetings in his field, including the Annual Symposium for Nonhuman Primate Models for AIDS, Keystone Symposia, and the international AIDS Vaccine conference. He has held organizing roles and chaired sessions for numerous scientific meetings.

Wenchao Song, Ph.D.

Professor of Pharmacology

Dr. Song is an innovative and productive researcher and pioneer in the complement field. He has established an international reputation in two areas: steroid inactivating enzymes, particularly the estrogen sulfotransferases; and the regulation of complement and its role in auto-immune diseases and inflammation. He has a continuous history of grant funding. He has published in prestigious journals, including the *Journal of Experimental Medicine*, *Blood*, *Journal of Immunology*, and *Nature Medicine*. He serves as an *ad hoc* grant reviewer for the NIH and many European funding agencies, and is a member of the Innate Immunity and Inflammation Study Section of the NIH. Dr. Song is a highly respected teacher and mentor of graduate students and postdoctoral fellows. He lectures nationally and internationally. He has held organizing roles in several major scientific meetings, including chairing the 21st International Complement Workshop in Beijing in 2006.

Nicolas Stettler, M.D.

Associate Professor of Pediatrics

Dr. Stettler is an accomplished investigator in the field of pediatric obesity and nutrition epidemiology. His research focuses on the epidemiologic risk factors for the causes and consequences of childhood obesity and interventions to prevent obesity in children. He has contributed numerous publications in leading journals in his field, including *Pediatrics*, the *Journal of Pediatrics*, *Journal of Obesity*, and the *American Journal of Clinical Nutrition*. He has participated in the creation of several guidelines of the American Heart Association on obesity and related pediatric cardiovascular risk factors. He has reviewed grants for the Wellcome Trust, the Medical Research Council, and the NIH. Dr. Stettler directs the Pediatric Nutrition Fellowship program at CHOP. He was recently appointed as one of the seven voting members of the prestigious American Academy of Pediatrics

Committee on Nutrition, a committee widely recognized as the authoritative body for pediatric nutrition. He has presented his work in such venues as the Annual Meeting of the North American Association for the Study of Obesity, the Scientific Sessions of the American Heart Association, and the Third International Congress on Developmental Origins of Health and Disease.

Phong Tran, Ph.D.

*Associate Professor of Cell and
Developmental Biology*

Dr. Tran is a creative and productive microscopist/cell biologist who uses cutting-edge light microscopy and imaging techniques to focus on the assembly, organization, and function of the microtubule cytoskeleton. His research achievements have had an impact on his field and have been recognized with receipt of the Young Investigator Award from the Microscopy Society of America in 2003 and the Michael S. Brown New Investigator Research Award, a Penn Medicine Award of Excellence, in 2007. Dr. Tran has contributed numerous publications in top tier journals, including a high-profile and widely cited paper in *Cell* in 2007. He has an excellent record of teaching specialty courses in quantitative light microscopy methods, including the prestigious courses in Woods Hole and Cold Spring Harbor. He has been invited to present his work nationally and internationally.

Donald E. Tsai, M.D., Ph.D.

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

Dr. Tsai has advanced the field of transplantation through his research on the diagnosis and treatment of post-transplant lymphoproliferative disorder (PTLD) and on the development of novel treatments for hematologic malignancies. His scholarly contributions have been in prestigious journals, such as *Proceedings of the National*

* Faculty appointment has been converted to tenure.

Academy of Sciences, Journal of Immunology, Transplantation, and the American Journal of Transplantation. In 2004, Dr. Tsai received the Robert Austrian Junior Faculty Award, a Penn Medicine Award of Excellence, recognizing his contributions to patient-oriented research. He is on the editorial board of the *Journal of Clinical Oncology*, the premier specialty journal in his field. He has presented his research at the American Transplant Congress in 2005 and 2007 and the International Congress of the Transplantation Society in 2004. He is a member of the American Society of Clinical Oncology, American Society of Hematology, and the American Society of Transplantation.

Robert H. Vonderheide, M.D.

Associate Professor of Medicine

Dr. Vonderheide is an innovative physician-scientist who uses basic research and clinical investigation to advance the understanding of tumor immunology and develop novel immunotherapies for cancer. He has developed and led highly collaborative teams, including translational work on CD40 through a collaboration with the School of Veterinary Medicine. He is an investigator in the Abramson Family Cancer Research Institute. In recognition of his research accomplishments, he was elected to the American Society of Clinical Investigation in 2007. He is an editorial board member of the *Journal of Clinical Oncology, Breast Cancer Research, Clinical Cancer Research, and Cancer Biology & Therapy*. Dr. Vonderheide's contributions to teaching in research, classroom, and clinical settings have been excellent. He participates in the teaching and mentoring of undergraduates, medical students, graduate students, residents, fellows, and postdoctoral fellows. He lectures nationally and internationally. He is a member of the American Association of Cancer Research.

Susan P. Weinstein, M.D.

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

Dr. Weinstein is recognized nationally for her expertise in the field of diagnostic radiology, particularly breast imaging. Her clinical research has focused on imaging techniques and modalities related to the screening and detection of breast cancer. She has been the principal investigator and co-investigator of numerous grants. She has peer-reviewed publications in leading journals in her field, including *Radiographics, Radiology, and Academic Radiology*. She is on the editorial boards of the *American Journal of Roentgenology* and *Radiographics*, two major journals in radiology. She has reviewed grants for the Susan G. Komen Foundation. Dr. Weinstein directs the women's imaging fellowship, one of the largest and most successful programs of its kind. She is a member of multiple professional and scientific societies, including the Radiological Society of North America, the American Association of Women Radiologists, the Society for the Advancement of Women's Imaging, the Society of Breast Imaging, and the American College of Radiology Continuous Professional Improvement Breast Sub-Committee.

Theoklis Zaoutis, M.D.

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

Dr. Zaoutis is a national leader in the field of pediatric infectious diseases whose research focuses on infection control and hospital epidemiology. Among his many contributions is his significant work, published in 2005 in *Clinical Infectious Disease*, on the epidemiology and outcomes of candida infection. He has a history of successful grant funding. He is Vice-Chair of Infectious Diseases for the Children's Oncology Group. He is the Associate Director of the Center for Pediatric Clinical Effectiveness at the Joseph Stokes, Jr. Research Institute and the Associate Division Chief of the Division of Infectious Diseases at CHOP. Dr. Zaoutis has contributed publications in

premier clinical journals in his field, including *Infection Control Hospital Epidemiology, Pediatric Infectious Disease Journal, Pediatrics, and Journal of Pediatrics*. He serves on the editorial boards of *Pediatric Infectious Disease the Journal* and *Current Fungal Infection Reports* and is an associate editor of *Pharmacoepidemiology and Drug Safety*. He is an advisor to the Research Committee of the National Institute of Allergy and Infectious Diseases Bacteriology and Mycology Study Group. Dr. Zaoutis makes significant contributions to the education of medical students, graduate students, residents, and fellows. He was elected to the Faculty Honor Roll at CHOP each year, from 2003 through 2008. He directs the nationally recognized Pediatric Infectious Disease fellowship program at CHOP.





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