



# *Promoted*

## FACULTY 2011

Raymond *and* Ruth Perelman School of Medicine  
at the University of Pennsylvania

TUESDAY, SEPTEMBER 20, 2011

5:30 p.m. – 7:00 p.m.

BIOMEDICAL RESEARCH BUILDING  
LOBBY





# Promoted

## FACULTY 2011

## Program



Raymond *and* Ruth Perelman School of Medicine  
at the University of Pennsylvania

### WELCOME REMARKS

**J. Larry Jameson, M.D., Ph.D.**

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

### ADDRESS TO FACULTY

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

*Chair, Committee on Appointments and Promotions*

### CLOSING REMARKS

**J. Larry Jameson, M.D., Ph.D.**

RECEPTION CONTINUES



### Nuzhat A. Ahmad, M.D.

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

Dr. Ahmad is a nationally prominent interventional endoscopist who focuses on the diagnosis and staging of esophageal and pancreatic cancers and gastrointestinal stromal tumors. Her innovative research has had a major impact on clinical practice in gastroenterology practice. In 2007, she was named Associate Director of Endoscopy at HUP. She has contributed publications in leading specialty journals including *Gastrointestinal Endoscopy*, *Digestive Diseases and Sciences*, and the *Journal of Gastroenterology*. She is on the editorial board of *Digestive Diseases and Sciences* and is a reviewer for numerous additional journals. Dr. Ahmad was recently named Medical Residency Director for Gastroenterology. In 2006, she received the Stanley Cohen Teaching Award in the Department of Medicine. Dr. Ahmad serves on the advisory board for establishing an internet based teaching database for The American Society of Gastrointestinal Endoscopy. She presents her work nationally and has participated as an invited speaker in national courses and meetings. She is a member of the American College of Gastroenterology, the American Society for Gastrointestinal Endoscopy and currently serves on two committees for the American Gastroenterological Association.

### Vivek N. Ahya, M.D.

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

Dr. Ahya is recognized nationally for his expertise in the field of lung transplantation. His research focuses on the roles of immunosuppressive agents in the prevention and treatment of acute and chronic lung rejection and the development of novel treatment approaches for respiratory syncytial virus (RSV) infection in lung transplant. As Medical Director of the Lung Transplantation Program at HUP, he leads a multidisciplinary team in the development of clinical, research,

and educational initiatives related to lung transplantation and the pulmonary complications of organ and bone marrow transplantation. Under his leadership, the program has become one of the country's most prominent and busiest programs. He has participated in and served as principal investigator for multiple clinical trials. His publications are in prominent journals including the *American Journal of Transplantation*, the *Journal of Heart and Lung Transplantation* and *American Journal of Respiratory and Critical Care*. Dr. Ahya lectures nationally including invitations to present his work at the annual meetings of the American College of Chest Physicians and the American Thoracic Society. He is a member of the American Society of Transplantation, the American Thoracic Society, the American College of Chest Physicians and the International Society of Heart and Lung Transplantation. He chairs a subcommittee of a national work group sponsored by the American College of Chest Physicians and Society of Critical Medicine charged with developing consensus guidelines on managing organ donors. He is a member of the Executive Board and past President of the Laennec Society, a regional professional society devoted to pulmonary medicine.

### Craig A. Alter, M.D.

*Professor of Clinical Pediatrics*

Dr. Alter is a highly regarded and highly sought after pediatric endocrinologist. His development and implementation of physician-nurse practitioner teams has improved clinical productivity and resident education. He is an outstanding educator of medical students, residents, fellows and colleagues and was named Director of the CHOP Pediatrics Endocrinology Fellowship Program in 2009. Dr. Alter has been named to the Faculty Honor Roll at CHOP every year since 2000. He has chaired national and international teaching programs including the Lawson Wilkins Pediatric Endocrine Society (LWPES). At the joint meeting of the LWPES and the European Society of Pediatric Endocrinology, he chaired the review course which included over 400 national and international pediatric endocrinologists. He has also provided exceptional community service in serving as Medical Director for diabetes summer camp programs each year.

### Richard Aplenc, M.D.

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

Dr. Aplenc is a leader in the field of pediatric hematology-oncology, particularly acute myelogenous leukemia (AML), whose research focuses on the molecular epidemiology of pediatric leukemias and new drug development for AML. In 2010, he was named the inaugural Section Chief for the Clinical Hematopoietic Malignancies Program at CHOP. He has been successful in obtaining funding for his research from federal and foundation sources. He is recognized for his multiple prominent roles in the National Cancer Institute supported Children's Oncology Group. His scholarly contributions are in leading journals including *Blood*, *Pediatric Blood Cancer* and the *Journal of Clinical Oncology*. He is a member of the editorial board of the American Society of Clinical Oncology Website, People Living with Cancer and a reviewer for numerous journals including *Journal of the American Medical Association*, *Cancer Research and Leukemia*. He has participated in committees for the NIH and reviewed grants for the United Kingdom Childhood Cancer Study Group and the National Medical Research Program in Singapore. Dr. Aplenc is an excellent educator and mentor of medical students, graduate students, residents and fellows. He was named to the Faculty Teaching Honor Roll at CHOP in 2004-2005. He presents his work nationally and internationally. He is a member of the American Association for Cancer Research, the American Society of Clinical Oncology, and the American Society of Hematology.

### Kristy Arbogast, Ph.D.

*Research Associate Professor of Pediatrics*

Dr. Arbogast is a highly productive, interdisciplinary investigator who is an influential leader in the field of pediatric injury biomechanics. She focuses primarily on understanding the biomedical tolerance to injuries for children across the developmental spectrum and the development of interventions to prevent or reduce the severity of injury from motor vehicle crashes. Her

research has promoted new safety products, test protocols, federal motor vehicle safety standards, public education and public policy. She has won several awards including best paper awards from her specialty societies, multiple distinguished speaker awards and the Health Impact Award from the Centers for Disease Control. She has been successful in garnering support for her research from various funding sources. She has contributed peer-reviewed publications in notable journals including *Pediatrics*, *Annals of Surgery*, *Journal of Trauma* and *Annals of Advances of Automotive Medicine*. She is associate editor of *Traffic Injury Prevention*. Dr. Arbogast has reviewed grants for the CDC and has served on expert panels for the CDC and the Snell Memorial Foundation. She is a member of the board of directors of the Association for the Advancement of Automotive Medicine. She presents her work nationally and internationally.

### Jill M. Baren, M.D.

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

Dr. Baren is a leader in academic emergency medicine whose research focuses on informed consent, parental decision making for children's participation in research, human subjects protections and the logistics and special protections of research subjects involved in clinical trials. She has a successful history of grant funding. She has contributed publications in top tier journals in her field including *Academic Emergency Medicine*, *Pediatric Emergency Care* and *Annals of Emergency Medicine*. She was the senior editor of an evidence-based, clinically focused textbook, *Pediatric Emergency Medicine*, a preeminent reference in the subspecialty of pediatric emergency medicine. She is associate editor of *Academic Emergency Medicine* and a reviewer for numerous additional journals. She participated on the planning committee and as a speaker for the Department of Health and Human Services' Conference on Centralized IRBs for Exception from Informed Consent Research, reviewed grants for the National Institute of Neurological Disorders and Stroke and served on Data and Safety Monitoring Boards for

the National Institute of General Medical Science and the Health Resources Services Administration. Dr. Baren is Director of Pediatric Emergency Medicine Education. She has received the Jean A. Cortner Divisional Teaching Award for “excellence and commitment to resident teaching” in 2006 and 2007 and the Department of Emergency Medicine Annual Resident Mentoring Award in 2009. She is an active member of the American College of Emergency Physicians, the American Academy of Pediatrics, and the American Board of Emergency Medicine. She served as President of the Society for Academic Emergency Medicine in 2009 through 2010 and is currently Chair of the Research and Education Foundation. She lectures nationally and internationally.

### Frances Barg, Ph.D., M.Ed.

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

Dr. Barg is a productive and influential researcher who is having an impact on important public health issues, a highly dedicated and effective educator, and a vital resource to the Penn research community. She is an innovative medical anthropologist who is a leader in mixed methods and qualitative research in mental health and aging. She is a highly collaborative researcher who uses an interdisciplinary approach to focus on health care disparities, the psychosocial factors affecting health care outcomes and the patient’s perspective of health and disease. Her scholarly contributions are in prestigious journals including *Cancer*, *Archives of Pediatrics and Adolescent Medicine*, *Alzheimer’s Disease Journal* and the *American Journal of Public Health*. She is on the editorial boards of *Expedition* and *Journal of Mixed Methods Research* and is a reviewer for numerous additional journals. She is a participant on special emphasis panels for the National Cancer Institute, the Centers for Disease Control, and the National Center for Minority Health Disparities. She has been appointed to the Pennsylvania Cancer Control Advisory Board for 2008 through 2012. Dr. Barg is an excellent teacher and mentor in

the Perelman School of Medicine, the School of Arts and Sciences and the School of Nursing. Her teaching of medical students has centered on her work in the Guatemala Health Initiative, a collaborative effort across schools to improve the health infrastructure for defined communities in Guatemala. She has focused on developing a curriculum that provides education for health related research, service and practice in the context of a developing country. She is a member of the American Anthropological Association, the Section on Medical Anthropology and the Society for Psychological Anthropology.

### Jeffrey S. Barrett, Ph.D.

*Research Professor of Pediatrics*

Dr. Barrett is a leader and innovator in pharmacokinetics and pharmacodynamics who focuses on population pharmacokinetics, pediatric pharmacotherapy, modeling and simulation and translational pharmacokinetics. He is the Director of the Laboratory for Applied PK/PD (pharmacokinetics/pharmacodynamics) in the division of clinical pharmacology and therapeutics at CHOP. In 2004, his research contributions were recognized with election to Fellow of the American Association of Pharmaceutical Scientists (AAPS), a highly prestigious honor. He has an excellent funding record. He has contributed peer-reviewed publications in leading journals in his field including *Journal of Clinical Oncology*, *Journal of Clinical Pharmacology*, *Clinical Pharmacology and Therapeutics* and *Clinical Pharmacokinetics*. He is on the editorial boards of the *Journal of Pharmacokinetics and Pharmacodynamics* and the *Journal of Clinical Pharmacology*. Dr. Barrett is an accomplished and dedicated mentor of undergraduate and graduate students, postdoctoral and physician fellows and junior faculty. He was the first recipient of the Mentorship in Clinical Pharmacology Award from the American College of Clinical Pharmacology in 2007. He lectures nationally and internationally. He is co-founder of the International Symposium on Quantitative Pharmacology and Drug Development and Regulatory Sciences. He is an active member of a number of professional and scientific societies

and served as a member-at-large of the Executive Council of AAPS from 2008-2011.

### Craig H. Bassing, Ph.D.

*Associate Professor of Pathology and Laboratory Medicine*

Dr. Bassing is an outstanding molecular immunologist whose independent and collaborative research focuses on V(D)J recombination and DNA repair. He uses genetic and developmental immunology approaches to study two major aspects of antigen receptor (AgR) gene assembly relevant to normal lymphocyte development and oncogenesis with a special focus on the role of histone H2AX. He has received many awards as an investigator including the American Cancer Society Institutional Research Award, the Pew Award and the Leukemia and Lymphoma Society Scholar Award. He was the recipient of the 2009 Michael S. Brown New Investigator Research Award, a Penn Medicine Award of Excellence which recognizes emerging faculty investigators engaged in innovative discoveries. He has been successful in securing funding for his research. He has contributed publications in high impact journals including *Nature*, *Proceedings of the National Academy of Sciences*, *Journal of Immunology*, *Molecular Cell* and *Journal of Experimental Medicine*. He has reviewed grants for the NIH and the Israel Science Foundation Grant Program, fellowship programs for the Wellcome Trust and the Austrian Academy of Sciences. Dr. Bassing is a highly valued teacher and mentor of graduate students and postdoctoral trainees. He presents his work nationally. He is a member of the American Association for the Advancement of Science, the American Association of Immunologists and the American Association for Cancer Research. He has held organizing roles for meetings of the American Association for Cancer Research and the Pew Scholars and Fellows.

### Tami D. Benton, M.D.

*Associate Professor of Psychiatry at The Children’s Hospital of Philadelphia*

Dr. Benton excels as a clinician, educator, investigator and administrator. She is a national leader in child and adolescent psychiatry whose research focuses on the psychiatric co-morbidities of chronic illnesses in children and adolescents, particularly on minority populations and anxiety disorders in sickle cell and HIV diseases. She has held several key leadership positions and in April 2010, she was named Psychiatrist-in-Chief and Chief of the Department of Child and Adolescent Psychiatry and Behavioral Science. She is also considered an exceptional and highly talented psychiatrist. Under her leadership, the child psychiatry program at CHOP has expanded from 5 to 16 physicians during the past year. She has recently developed a laboratory based program to examine biomarkers relevant to stress, depression and progression of disease among chronically ill adolescents. She publishes her research in important journals in her field. She is the editor for the Components Section of the *American Academy of Child and Adolescent Psychiatry News* and section editor for the *Child and Adolescent Psychiatry Current Psychiatry Reviews*. Dr. Benton’s teaching has been recognized with the Department of Child and Adolescent Psychiatry Teaching Award in 2001 and 2002, the Blockley-Osler Clinical Teaching Award from the School of Medicine in 2004, the Child and Adolescent Psychiatry Teaching Award in the Department of Psychiatry in 2006 and the Elizabeth B. Weller Award for Teaching at The Children’s Hospital of Philadelphia in 2008. She developed two new training programs in child and adolescent psychiatry, the Child and Adolescent Psychiatry Fellowship Program and the Post Pediatrics Portals Program (PPPP). The PPPP is an innovative program in collaboration with the American Academy of Child and Adolescent Psychiatry, CHOP and the Accreditation Council of Graduate Medical Education designed to increase the number of child psychiatrists, a specialty with a severe shortage, by providing a pathway for pediatricians to become board certified psychiatrists in three years. Dr. Benton is active in the American Academy of Child and Adolescent

Psychiatry (AACAP) and the American Association of Directors of Psychiatry Residency Training (AADPRT). She was also instrumental in the development of the first Black Child and Adolescent Psychiatry Caucus sponsored by the AACAP.

### **Robert I. Berkowitz, M.D.**

*Professor of Psychiatry at The Children's Hospital of Philadelphia and the Hospital of the University of Pennsylvania*

Dr. Berkowitz has advanced the field of obesity research, particularly in the area of the etiology and clinical management of obesity in children and adolescents. He studies the long term treatment of obesity using behavioral and pharmacological therapies and the genetics of obesity. His research has been continuously funded by federal, industry and foundation sources. He has served as Director of the Eating and Weight Disorders Research Program at CHOP since 1994. In 2010, he was named Senior Medical Director for the Center for Weight and Eating Disorders at Penn. His publications are in premier journals including *The New England Journal of Medicine*, *Annals of Internal Medicine*, and *Pediatrics*. He is on the editorial board of the *International Journal of Obesity*. He has served on a number of NIH review committees and the NIH Working Group on Future Research Directions for Prevention and Treatment of Childhood Obesity. Dr. Berkowitz is a highly regarded educator and mentor of medical students, residents and fellows. He lectures nationally and internationally. He is a member of The Obesity Society, the Society of Behavioral Medicine and the American Academy of Child and Adolescent Psychiatry. He recently held organizing roles for The Obesity Society Annual Scientific Meeting and the 24th Annual Practical Approaches to the Treatment of Obesity meeting.

### **Shawn J. Bird, M.D.**

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

Dr. Bird is a nationally recognized neuromuscular clinician whose clinical research focuses on critical illness myopathy and neuropathy and the diabetic polyneuropathies. He developed advanced electrophysiologic techniques including single-fiber electromyography for the diagnosis of myasthenia gravis, clinical autonomic studies and computer-assisted quantitative sensory testing for peripheral neuropathies. He is the Director of the Electromyography (EMG) Laboratory, the Neurodiagnostic Laboratories, and the Muscular Dystrophy Association Clinic. He has led and participated in the design and implementation of numerous multicenter clinical trials. His publications are in notable journals including *Neurology*, *Muscle and Nerve*, and the *Journal of Clinical Neuromuscular Disease*. He is a reviewer for numerous journals including *Critical Care Medicine*, *Clinical Neurophysiology*, and *Journal of Neurology, Neurosurgery and Psychiatry*. Dr. Bird is a dedicated and effective educator of medical students, residents, fellows and faculty colleagues. He directs the Clinical Neurophysiology Residency Program. He has served as an organizer and teacher at national meetings of the American Association of Electrodiagnostic Medicine and lectures nationally and internationally. He is a member of a number of professional and scientific societies.

### **Julie A. Blendy, Ph.D.**

*Professor of Pharmacology*

Dr. Blendy is an internationally prominent molecular pharmacologist whose research focuses on the molecular basis for the biochemical and behavioral changes associated with drug addiction and depression. She is also an important resource to the Penn community and externally as an expert in gene targeting, mouse genetics and behavioral analysis. She directs the Rodent Behavioral Testing Facility in the Center for Neurobiology of Behavior and co-directs the Center for Interdisciplinary Research on Nicotine Addiction. In recognition of her achievements in the field, she

received the Cutting Edge Research Recognition Lecture Award from the National Institute of Drug Abuse in 2007. Her peer-reviewed publications are in premier journals including *Proceedings of the National Academy of Sciences*, *The Journal of Neuroscience*, *Biological Psychiatry* and *The Journal of Clinical Investigation*. She is on the editorial board of *Molecular Pharmacology*. She has served on many NIH special emphasis panels and study sections. Dr. Blendy is the Vice Chair of the Graduate Group in Pharmacological Sciences and will become the Chair in 2012. In 2009, she received the Distinguished Faculty Award by the Graduate Group in Pharmacological Sciences. She has been an instructor in the Cold Spring Harbor Laboratory course on Cellular Biology. She is a member of the Society for Neuroscience, American Society for Pharmacology and Experimental Therapeutics, and the Society for Research on Nicotine and Tobacco.

### **Roy D. Bloom, MBBCh**

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

Dr. Bloom is a leader in the field of transplantation nephrology. His research focuses on the outcomes of HCV infected patients undergoing kidney transplantation, the donor and recipient outcomes after live donor transplantation, chronic kidney disease after non-renal organ transplantation and clinical trials of novel immunosuppressive drugs. He has contributed peer-reviewed publications in high impact journals including the *American Journal of Transplantation*, *Transplantation* and *The New England Journal of Medicine*. He is known as a dedicated and compassionate clinician and for leadership of the Penn Kidney Transplant Program. He is a guest editor for *Current Opinions in Hypertension and Nephrology* and an active reviewer for a number of journals including *American Journal of Transplantation*, *Transplantation*, *Journal of the American Society of Nephrology* and *The American Journal of Kidney Diseases*. He is a member of a Drug Safety Monitoring Board of a clinical trial for the National Institute of Diabetes and Digestive and Kidney Diseases. Dr. Bloom is an enthusiastic and effective educator and mentor

of medical students, residents and colleagues. He has been a member of a select group of transplant physicians and surgeons selected as faculty for the American Society of Transplantation Annual Fellows Symposium. He is an active member of the American Society of Transplantation and the American Society of Nephrology. Since 2008, he has been a member of the American Society of Transplantation's Clinical Trials Advisory Council and in 2009 he chaired the Council.

### **Benjamin M. Braslow, M.D.**

*Associate Professor of Clinical Surgery*

Dr. Braslow has distinguished himself as a clinician and educator. He is considered the "go-to" surgeon for the management of the most critical patients and is recognized as a resource for difficult trauma and emergency surgery issues. He makes key contributions as a dedicated educator of fellows, residents and medical students. In 2009, he received the Penn Pearls Award for Excellence in Clinical Teaching from the medical students. He serves as the Trauma/Emergency Surgery Outpatient Director and is also responsible for the coordination of the International Trauma Training Program which provides observational visits for physicians and surgeons from outside the United States. He is a member of the Society of Critical Care Medicine and the Eastern Association for the Surgery of Trauma.

### **Eric J. Brown, Ph.D.**

*Associate Professor of Cancer Biology*

Dr. Brown is an outstanding investigator who has made seminal contributions to the field of cancer biology and the emerging field of stem cell aging. He uses a rigorous combination of biochemistry, cell biology and genetically modified mouse models to focus on understanding the molecular aspects of DNA replication and their application to the processes of carcinogenesis, tissue homeostasis and aging. He is recognized particularly for his groundbreaking research on the ATR protein kinase and its role in DNA repair. He has been successful in securing funding for his research. His scholarly contributions are in high profile journals

including *Cell Stem Cell*, *Nature Genetics*, and the *Journal of Biological Chemistry*. He has served as an ad hoc reviewer for a number of journals. Dr. Brown developed and co-chaired a course in the Cell and Molecular Biology Graduate Group. He lectures nationally and internationally. He is a member of the International Society for Stem Cell Research and the American Association of Cancer Research.

### John M. Bruza, M.D.

*Associate Professor of Clinical Medicine*

Dr. Bruza is an expert clinician in geriatric medicine as well as a committed educator and a respected administrator. He is considered to be a “doctors’ doctor.” In his numerous administrative roles he has improved the oversight and quality of medical care in the acute care and outpatient settings, including fostering an interdisciplinary team-based approach. He is Medical Director of the inpatient geriatrics unit at Penn Presbyterian Medical Center, the Acute Care for Elders Unit, Medical Director of the Ralston-Penn Center geriatrics practice, Director of Geriatrics at Penn Medicine at Radnor and Chief of Geriatrics at Penn Presbyterian Medical Center. Dr. Bruza is an enthusiastic educator and mentor of medical students, nursing students, residents and fellows. He has developed a successful geriatric core curriculum of lectures and readings for the residents and has created a rounding structure that incorporates didactic teaching, bedside teaching, clinical management rounds and interdisciplinary rounds.

### James M. Callahan, M.D.

*Professor of Clinical Pediatrics*

Dr. Callahan excels as a clinician and teacher. He is recognized as a clinical expert in the field of pediatric emergency medicine and as a compassionate physician. He is Director of Education for the division of emergency medicine and oversees all educational activities for over 250 residents and medical students and Associate Program Director for the Residency in Pediatrics.

He has been elected to the Faculty Honor Roll at CHOP every year since 2007. He serves on multiple committees at CHOP and the Perelman School of Medicine. Nationally, he serves as a member of the PREP EM Editorial Board of the American Academy of Pediatrics, the EMS Solutions for Safely Transporting Children in Emergency Vehicles for the National Highway Traffic Safety Administration and on the Section of Pediatric Emergency Medicine for the American College of Emergency Medicine.

### Anne R. Cappola, M.D.

*Associate Professor of Medicine*

Dr. Cappola is a national leader in the endocrinology of aging. Her interdisciplinary translational investigations focus on thyroid disorders in the elderly, the role of androgens in health and disease in elderly women and the association of endocrine abnormalities in the area of frailty. She has been highly successful in garnering funding for her research. In 2009, she received the Robert Austrian Award in Patient-Oriented Research in the Department of Medicine. Her publications are in prominent journals including the *Journal of the American Medical Association*, *Journal of the American College of Cardiology*, *Journal of Clinical Endocrinology and Metabolism* and *Archives of Internal Medicine*. She is a member of the editorial boards of the *Journal of Gerontology: Medical Sciences* and the *Journal of Clinical Endocrinology and Metabolism*. She has served on several NIH special emphasis panels and participated in NIH workshops and was recently appointed to the National Institute of Diabetes, Digestive and Kidney Diseases Board of Scientific Counselors. Dr. Cappola has served as Director of Research Education for the division of endocrinology, diabetes and metabolism since 2004 and is responsible for mentoring every fellow in the division. She received the Endocrine Society Thyroid Clinical Research Mentor Award in 2010 and the Edward Rose Faculty Teaching Award in the division of endocrinology, diabetes and metabolism in 2009. She presents her work nationally and internationally including symposia of the Endocrine Society, the American Thyroid

Association and the Gerontological Society of America. In 2005 and 2010, she received the American Federation for Aging Research Dorothy Dillon Eweson Lecturer Award for Advances in Aging Research. She serves on committees for The Endocrine Society, Women in Endocrinology, Women’s Health and Aging Studies and the Gerontological Society of America.

### Dean C. Carlow, M.D., Ph.D.

*Associate Professor of Clinical Pathology and Laboratory Medicine*

Dr. Carlow makes excellent contributions as a clinical pathologist, teacher and administrator. As Medical Director of the Clinical Chemistry and Intensive Care Laboratories at CHOP, he oversees all analytical operations and provides the scientific and medical expertise in order to deliver quality results in a timely manner for patient care. He also directs the Core Laboratory at CHOP and is responsible for all aspects of timeliness, instrument selection and quality of laboratory data. He has been at the forefront of the introduction of novel mass spectrometric assays into the clinical laboratories. Dr. Carlow is a dedicated and enthusiastic teacher of residents in pathology and laboratory medicine, pediatric fellows and medical students. He is on the editorial review board of the *Journal of Pediatric Biochemistry*, serves on the Instrumentation Resource Committee of the College of American Pathologists and a board-member-at-large of the Maternal/Fetal Division of the American Association of Clinical Chemistry.

### Pasquale Casale, M.D.

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

Dr. Casale is an outstanding pediatric urologist who has emerged as a leader and innovator in minimally invasive and robotic pediatric surgery. His clinical research focuses on the diagnosis and minimally invasive treatments of pediatric urologic diseases, such as stone disease, and he established a database that provides for the review of the surgical approaches to these diseases. He was named Director of Minimally Invasive Surgery at

CHOP in 2009 and developed the Endourology/Laparoscopic Urology Program, as well as the Robotic Surgery Program. His publications are in top journals in his field including *Pediatric Nephrology*, *Journal of Robotic Surgery*, and *Journal of Urology*. He is an editor for *UroToday*, associate section editor for the *UroToday International Journal*, section editor for *The Journal of Endourology* and co-editor for pediatric urology for the *Journal of Robotic Surgery*. Dr. Casale excels as teacher and mentor of medical students, residents and fellows. He has worked with senior leadership at CHOP to develop the first medical and surgical simulation center at a free-standing pediatric hospital completely devoted to the healthcare of children. He designed and co-chairs a three day course and hands-on workshop for pediatric urology fellows in North America that is given annually. He is a member of the Society of Robotic Surgery, Society for Pediatric Urology, Society for University Urologists and the American Urologic Association.

### Anna Rose Childress, Ph.D.

*Research Professor of Psychology in Psychiatry*

Dr. Childress is an international leader in the field of addiction research, particularly the research in the motivation for drug use and relapse. She uses neuroimaging to focus on understanding and treating the profound craving states elicited by drug cues such as cocaine, nicotine, opiates, and marijuana. She has an impressive record of funding. Her publications, many of which are in top-tier journals, are acknowledged as having advanced the field. She is an editorial board member of *American Journal on Addiction* and *Addiction*, academic editor of *PLoS ONE*, and an ad hoc reviewer for numerous journals. Dr. Childress is an excellent mentor of postdoctoral fellows and junior faculty. She presents her research nationally and internationally. She is the President of the College on Problems of Drug Dependence and serves as a member of the Board of Scientific Councilors of the National Institute on Drug Abuse.

### Cindy W. Christian, M.D.

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

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Dr. Christian is an influential leader in the multidisciplinary field of child abuse pediatrics who is recognized nationally for her substantial educational, clinical, leadership and research contributions. Her research focuses on the medical evaluation and care of maltreated children. In 2009, she was named Director, Safe Place at CHOP and in 2010, she was named by Mayor Michael Nutter as Philadelphia's first Medical Director in the Department of Human Services to oversee the development of policy and systems related to primary health care as well as developmental and mental health care and evaluation for children in the city's welfare system. She has contributed numerous publications in premier journals such as the *Journal of the American Medical Association* and *Pediatrics*. She recently co-edited the 3rd edition of *Child Abuse: Medical Diagnosis and Management*, the leading reference medical textbook in child abuse and neglect. She is a member of the editorial board of *The Quarterly Update*. Dr. Christian is an outstanding educator who has been named to the faculty honor roll at CHOP for multiple successive years by the pediatric residents and has co-directed a clinical, interdisciplinary law school class for law and masters level social policy and practice students at Penn. She was instrumental in establishing the subspecialty of child abuse pediatrics and in securing board certification as a pediatric subspecialty of the American Board of Pediatrics. She has been an active member of the Section on Child Abuse and Neglect of the American Academy of Pediatrics and is the current Chair of the Committee on Child Abuse and Neglect. She served as Chair of the Child Abuse Special Interest Group of the American Pediatrics Association from 2003-2009 and was recently elected as a member of the American Board of Pediatrics' Sub-Board of Child Abuse Pediatrics.

### Christina S. Chu, M.D.

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

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Dr. Chu is a distinguished clinician, educator and investigator. She is an outstanding gynecologic oncologist who is known for her expertise in the development of novel immunotherapies for gynecologic malignancies. She publishes her research in leading journals including *Gynecologic Oncology*, *Cancer and Clinical Cancer Research*. She serves on the editorial board of *Onco-Link* and is a reviewer for *Gynecologic Oncology and Obstetrics and Gynecology*. Dr. Chu makes extensive contributions as a teacher and mentor of medical students, residents and fellows. She chaired a work group to develop recommendations to enhance the educational value of the gynecologic oncology rotation. She established and serves as course instructor for the department's web-based learning module and is responsible for selecting the required and recommended readings for each year of residency. In 2010, she received the National Faculty Award for Excellence in Resident Education from the American College of Obstetricians and Gynecologists Council on Resident Education and the Department of Obstetrics and Gynecology faculty teaching award for excellence in resident education. She has served on the Government Relations Committee for the Society of Gynecologic Oncologists and the Phase I Committee for the Gynecologic Oncology Group.

### Debbie Cohen-Stein, MBBCh

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

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Dr. Cohen-Stein is a highly accomplished academic nephrologist who has particular expertise in complex hypertension. Her research focuses on neuroendocrine tumors, specifically pheochromocytoma and paraganglioma and non-pharmacological approaches to the treatment of hypertension. She has funding from federal and industry sources to support her research. Her publications are in prominent journals in her field including the *Journal of Clinical Hypertension*. She developed

and directs the Neuroendocrine Tumor Center, a multi-disciplinary program dedicated to specialized and clinical care, research and education. She has served as section co-editor for the *Journal of Clinical Hypertension* since 2006 and was previously a member of the editorial review board of *Endocrinology Research*. Dr. Cohen-Stein directed the renal fellows clinic at HUP from 2008 through 2010 and provided oversight of that curriculum. She lectures nationally and internationally. She serves on the Communications Committee for the American Heart Association Kidney Council and is a member of the American Heart Association Council for High Blood Pressure Research Professional Education Committee. She is also a member of the American Society of Nephrology in-training examination writing committee.

### Daniela H. Davis, M.D.

*Associate Professor of Clinical Anesthesiology  
and Critical Care*

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Dr. Davis is an excellent clinician, committed educator and respected administrator. She provides high level evidence-based care to clinically complex children. In recognition of her outstanding clinical leadership and clinical mentoring, she was appointed Associate Medical Director of the CHOP PICU in 2009. Dr. Davis makes key contributions as an educator of medical students, residents and fellows and was elected to the CHOP Faculty Honor Roll in 2009 and 2010. She chairs numerous patient safety and quality initiatives within the department and throughout CHOP. Dr. Davis co-chaired a quality improvement initiative at CHOP focusing on deep venous thrombosis and pulmonary embolism prophylaxis in children and her clinical acumen was acknowledged with receipt of the Achievement Award from the Hospital and Health System Association of Pennsylvania. She is a reviewer for *Pediatric Emergency Care*, *Journal of the American Medical Association* and *Pediatric Critical Care Medicine*.

### Cherie M. Ditre, M.D.

*Associate Professor of Clinical Dermatology*

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Dr. Ditre has achieved wide recognition for her expertise in cosmetic dermatology. She is known as a passionate and dedicated physician for patients interested in receiving treatment for facial aging, wrinkles, vascular lesions, keratoses, pigmentary defects and other problems. She is a highly respected and committed educator of residents and medical students. Dr. Ditre is frequently invited to lecture nationally. She is on the editorial advisory board of *Cosmetic Dermatology*, the editorial council of *Dermatology Times* and the editorial advisory board of the *Journal of Clinical and Aesthetic Dermatology*. She is a member of the American Academy of Dermatology, the American Society for Dermatologic Surgery, the American Society of Cosmetic Dermatology and Aesthetic Surgery and the American Society of Laser Medicine and Surgery.

### Joshua L. Dunaief, M.D., Ph.D.

*Associate Professor of Ophthalmology*

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Dr. Dunaief is an innovative and influential investigator in the vision research field whose research focuses on the pathogenesis of age-related macular degeneration. He has made major contributions to the study of iron toxicity in the retina. His accomplishments were recognized with the 2006 Cogan Award from the Association for Research in Vision and Ophthalmology, an award given to the premier vision researcher in the world under age 40. He is well funded with support from federal and foundation sources. He has contributed peer-reviewed publications in eminent journals including *Ophthalmology*, *Proceedings of the National Academy of Sciences*, and *Investigative Ophthalmology*. He is a reviewer for numerous journals including *Science*, *Nature* and *Biochemical Journal*. He has served on the NIH Biology and Diseases of the Posterior Eye Study Section since 2006. Dr. Dunaief makes impressive contributions as an educator and mentor of medical students, residents, fellows and graduate students. He presents his work nationally and internationally. He is a member of the Association for Research

in Vision and Ophthalmology, the International BioIron Society and the American Academy of Ophthalmology. He has held organizing roles in scientific meetings for the Association for Research in Vision and Ophthalmology and the International Society for Eye Research.

### Rosalie Elenitsas, M.D.

*Herman Beerman Professor of Dermatology*

Dr. Elenitsas is a prominent academic dermatopathologist and dermatologist who is an expert in the diagnosis and treatment of pigmented lesions. Her research complements her clinical activities and focuses on neoplasms in the skin and pigmented lesions. Her research has been published in prestigious journals in the field of dermatology such as *Journal of Investigative Dermatology*, *Archives of Dermatology*, and *American Journal of Dermatopathology*. She has served as associate editor for the last three editions of the textbook, *Lever's Histopathology of the Skin*, a major textbook in dermatopathology. She is editorial advisor for *Dermatology World* and a reviewer for *American Journal of Dermatopathology* and the *Journal of Cutaneous Pathology*. In 2008, Dr. Elenitsas received the Faculty Teaching Award in her department. She has directed the Dermatopathology Fellowship Program since 1998, one of the most prestigious programs in the country. She was recently selected among many highly qualified candidates to be the course director for the basic dermatopathology course at the American Academy of Dermatology. She has directed the annual Wallace H. Clark Jr. Lectureship and Symposium, a joint teaching event between the departments of Dermatology and Pathology and Laboratory Medicine since 2003. She has served on the executive board of the International Society of Dermatopathology and directed the membership committee of the American Society of Dermatopathology.

### Dawn Elliott, Ph.D.

*Professor of Orthopaedic Surgery*

Dr. Elliott is an international leader in the field of biomechanics. Her innovative research uses novel mechanical tests, mathematical modeling, and state-of-the-art magnetic resonance imaging and analysis to investigate the mechanisms for structure-function relationships in load-bearing fiber-reinforced tissues and joints and the changes that occur with development, degeneration, injury or treatment. She has been highly successful in securing funding for her research. She has contributed numerous peer-reviewed publications in leading journals including *Spine*, *Journal of Biomechanical Engineering* and the *Journal of Orthopaedic Research*. She is on the Board of Consulting Editors for the *Journal of Biomechanics* and is a reviewer for numerous additional journals. She has been an active grant reviewer for several agencies and foundations including the NIH, the Orthopaedic Research and Education Foundation, NASA, the Swiss National Science Foundation and the Alberta Heritage Foundation for Medical Research. Dr. Elliott excels as an educator and mentor of graduate students, undergraduate students, medical students and residents in the laboratory and classroom settings in the Perelman School of Medicine and the School of Engineering and Applied Science. She presents her work nationally and internationally including numerous keynote lectures at international conferences such as the 6th World Congress in Biomechanics, the Japanese Orthopaedic Research Association and the Orthopaedic Research Society. She has provided extensive service to the American Society of Mechanical Engineers, Bioengineering Division including Conference Chair for 2010 and member-at-large on the Executive Committee and the Orthopaedic Research Society where she is currently a member of the Special Projects Committee and will chair the committee in 2013.

### Can H. Ficioglu, M.D., Ph.D.

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

Dr. Ficioglu has achieved national prominence in the field of inborn errors of metabolism. His research focuses on developing algorithms for the effective short and long-term care of patients detected by newborn screening and on developing new drugs to treat lysosomal storage disorders. He has published his work in leading journals in his field including *Clinical Chemistry*, *Molecular Genetics and Metabolism* and the *Journal of Inherited Metabolic Disease*. He is a highly regarded clinician in the areas of newborn metabolic screening, general metabolic disorders and lysosomal disorders and is widely recognized for establishing the successful Newborn Screening Clinic at CHOP. He is on the editorial board of *The Journal of Medicine* and a reviewer for numerous additional journals. He has reviewed grants for The Netherlands Organization for Health Research and Development, The Netherlands Organization for Scientific Research and the Natural Sciences and Engineering Research Council of Canada. Dr. Ficioglu presents his work nationally and internationally. He is a member of a number of professional and scientific societies including The Society for the Study of Inborn Errors of Metabolism, the International Society of Newborn Screening and the Society for Inherited Metabolic Disorders. He chaired "Inborn Errors of Metabolism and The Kidney" for the annual international symposium of the Society for the Study of Inborn Errors of Metabolism in September, 2010.

### Douglas L. Fraker, M.D.

*Jonathan E. Rhoads Professor of Surgical Science*

Dr. Fraker is a national and international leader in endocrine surgery and surgical oncology. His research interests include mechanism of action of tumor necrosis factor, treatment strategy targeting tumor angiogenesis, regional gene therapy, and photodynamic therapy. He is a gifted tumor and endocrine surgeon whose practice deals primarily with surgical oncology including melanoma,

sarcoma, liver tumors and breast cancer and endocrine surgery of the thyroid, parathyroid, adrenal and pancreas. In 2006, he received the Louis Duhring Outstanding Clinical Specialist Award, a Penn Medicine Award of Excellence. In 2002, he was recognized for his achievements with membership in the highly selective American Surgical Association. He has contributed more than 150 peer-reviewed publications in prominent journals including *Annals of Surgical Oncology*, *Surgery* and *Clinical Cancer Research*. He is a member of the editorial boards of the *Journal of Clinical Oncology*, *Annals of Surgical Oncology*, *The Cancer Journal: The Journal of the Principals and Practices of Oncology*, *Oncology Journal* and *Thyroid Journal*. Dr. Fraker received the Penn Pearls Medical Student Teaching Award and the Resident Faculty Teaching Award numerous times and was selected by the medical students for membership in the Alpha Omega Alpha Medical Honor Society. He has held leadership positions in the American College of Surgeons Oncology Group, the Society of Surgical Oncology and The American Cancer Society.

### Henry A. Glick, Ph.D.

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

Dr. Glick is an innovator and major contributor to clinical economics research and an important resource for the Perelman School of Medicine and the broader University. His independent and collaborative research is focused on applied and methodological development in the use of clinical trials for economic evaluation, the use of appropriate methods for evaluating confidence in estimates of cost-effectiveness and assessments of standardized measures of utility. He has funding from various federal and industry sources. He has contributed publications in notable journals such as *Medical Decision Making*, *Pharmacoeconomics*, *American Journal of Psychiatry*, and *New England Journal of Medicine*. He is the principal author of the textbook, *Economic Evaluation in Clinical Trials*. He is on the editorial board of *American Journal of Managed Care*. He has served on review committees for the NIH and the Centers for Disease Control. Dr. Glick makes significant

contributions to the educational programs in the Perelman School of Medicine and the Wharton School. He lectures nationally and internationally and has led continuing education courses at international meetings including the International Society for Pharmaceutical Outcomes Research. He is a member of the International Health Economics Association, the Association for Health Services Research and the Society for Medical Decision Making.

### Namni Goel, Ph.D.

*Research Associate Professor of Psychology in Psychiatry*

Dr. Goel is an accomplished investigator in the field of sleep and chronobiology. She uses a multidisciplinary approach bridging behavioral neuroscience, biological and clinical psychology and psychiatry to focus on how genetic, physiological, behavioral and environmental factors affect circadian rhythms and sleep and wakefulness and regulate mood and cognition. Her publications are in prominent journals including *Neurology*, *Journal of Biological Rhythms* and *PLoS One*. She is an academic editor of *PLoS One* and serves on the editorial boards of three leading specialty journals in her field: *Sleep*, *Chronobiology International* and the *Journal of Circadian Rhythms*. She has been a grant reviewer for a number of organizations such as the NIH, the Canadian Institutes of Health Research, The Wellcome Trust and The Royal Society. Dr. Goel is invited to present her work nationally and internationally. She is a member of the Society for Light Treatment and Biological Rhythms, the Society for Neuroscience and the Sleep Research Society. In 2008, she was elected to serve two years as President of the Society for Light Treatment and Biological Rhythms, a major international scientific organization. She has held organizing roles in scientific meetings for the Society for Light Treatment and Biological Rhythms and the Associated Professional Sleep Societies.

### Stacy Gordon, M.D.

*Professor of Clinical Pediatrics*

Dr. Gordon is an outstanding clinician, committed educator and respected administrator. She is recognized for her clinical expertise in pediatric emergency medicine and for exemplifying devotion, passion and commitment to excellence in patient care. She provides valued leadership as Director of Urgent Care Medicine and has improved the quality and efficiency of the clinical care to pediatric patients. She is a highly respected educator of medical students, residents, fellows and nurses. Her impressive contributions to education include the development of a clinical elective in pediatric urgent care for residents in pediatrics, family practice and emergency medicine. She was elected to the CHOP Teaching Honor Roll in 2008 and received Aria Health Graduate Education's Certificate of Recognition in 2009 and 2010. She is a member of the Sections on Emergency Medicine and Child Abuse of the American Academy of Pediatrics, the Section on Pediatric Emergency Medicine of the American College of Emergency Physicians and the American Academy of Urgent Care Medicine.

### Joseph H. Gorman, III, M.D.

*Professor of Surgery*

Dr. Gorman is an internationally recognized basic and translational researcher in the field of cardiovascular surgery. His research focuses on more effective and less invasive therapies for structural heart disease and includes mechanisms involved in postinfarction myocardial remodeling and mechanics, ischemic mitral regurgitation and myocardial ischemia/reperfusion injury. He has been highly successful in securing funding for his research. He has contributed over 100 peer-reviewed publications in premier journals including *Annals of Thoracic Surgery*, *American Journal of Physiology*, and *Proceedings of the National Academy of Sciences*. He is associate editor of *Cardiovascular Engineering and Technology* and has served on study sections for the NIH and American Heart Association. Dr. Gorman presents his work nationally and internationally. He is a

member of the Committee on Publications for the Society of University Surgeons. He has been a moderator for annual meetings of the American College of Surgeons, the American Heart Association and the American College of Cardiology.

### Barbara A. Haber, M.D.

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

Dr. Haber is recognized nationally for her contributions in pediatric gastroenterology, particularly pediatric hepatology. Her research focuses on biliary atresia, cholestatic liver disorders and viral hepatitis and is funded by federal, foundation, and industry sources. In 2007, she received the prestigious Physician of the Year Award from the Delaware Valley Chapter of the American Liver Foundation. Her publications are in prominent journals including the *Journal of Pediatrics* and the *Journal of Pediatric Gastroenterology and Nutrition*. She is a guest editor for *UpToDate*. She has been invited to serve on numerous study sections, special emphasis panels and committees for the NIH including the Biliary Atresia Research Consortium and the Committee for Pediatric Liver Disease Research Action. Dr. Haber excels as a teacher and mentor of medical students, residents and fellows. She is an active member of several professional and scientific societies and has held leadership positions in the North American Society for Pediatric Gastroenterology, Hepatology and Nutrition and the World Congress of Pediatric Gastroenterology Cholestasis Committee. She has held organizing roles in national scientific meetings.

### Todd E. H. Hecht, M.D.

*Associate Professor of Clinical Medicine*

Dr. Hecht is an accomplished and highly productive clinician whose expertise in the care of hospitalized patients is widely recognized. He is a key member of HUP's hospitalist program and was responsible for administering the program from 2002 through 2009. He directs the Anticoagulation Management Program at

HUP and also leads efforts to reduce the rates of nosocomial venous thromboembolism. Dr. Hecht makes significant contributions as an educator and mentor of residents and medical students. He received a Penn Pearls Teaching Award from the medical students in 2008. He is a member of the Society of Hospital Medicine.

### Ravishankar Jayadevappa, Ph.D.

*Research Associate Professor of Medicine*

Dr. Jayadevappa is a highly respected health services researcher, particularly in prostate cancer health services research. His independent research focuses on understanding and assessing the associations among systems of care and outcomes with emphasis on health disparities across race, age and income. He has also developed strong collaborative relationships throughout Penn based on his expertise in systems and economic analyses. He is a fellow in the Institute on Aging and a senior fellow in the Leonard Davis Institute of Health Economics. He has published his research in top journals including *Cancer*, *Journal of Urology*, *Medical Decision Making*, *British Journal of Urology International* and the *Journal of the American Geriatric Society*. He is a member of the editorial advisory board for *The Open Health Services and Policy Journal* and a reviewer for numerous additional journals. He serves as a grant reviewer for the National Institute of Diabetes and Digestive and Kidney Disease. Dr. Jayadevappa is a member of professional and scientific societies and serves on a number of committees for the International Society for Pharmacoeconomics and Outcomes Research and AcademyHealth. He presents his work nationally and internationally and is a frequent invited speaker at meetings of the American Public Health Association and the American Urological Association.

### Robert G. Kalb, M.D.

*Professor of Neurology*

Dr. Kalb is an accomplished academic neurologist who is making important contributions to the field of motor neuron disease. He studies the mechanisms underlying activity-dependent

plasticity in neuronal development and mechanisms of neurotrophin modulation of neuronal degeneration as it relates to human disease. His many contributions include the GluR1 subunit of glutamate receptors expressed by motor neurons as a key determinant of activity-dependent elaboration of neuronal dendrites, characterization of the role of SAP97 and its link to dendritic architecture, and the discovery that FOXO3a activation prevents motor neuron death following multiple types of death inducing insults. He has a history of sustained funding from the NIH. His publications are in high impact journals including *Journal of Neuroscience*, *Nature Neuroscience* and *Lancet Neurology*. He is associate editor of *Neuroscience Letters*, *Frontiers in Molecular Neuroscience*, and the *Journal of Neuroscience* and is a reviewer for numerous additional journals. He has served on many study sections for the NIH and is currently Chair of the Cellular and Molecular Biology of Neurodegeneration Study Section. He also reviews grants for NASA Life Sciences Developmental Biology Panel, the Association Française Contre Les Myopathies and the Agenzia Di Ricerca Per La Sclerosi Laterale Amiotrofica. Dr. Kalb is a highly effective educator and mentor of medical students, graduate students and residents. He presents his work nationally and internationally. He is a member of the Society for Neuroscience, the American Association for the Advancement of Science and the American Academy of Neurology.

### Jennifer M. Kapo, M.D.

*Associate Professor of Clinical Medicine*

Dr. Kapo excels as a physician, educator and administrator. She is an outstanding clinician with expertise in geriatrics and palliative care. As Medical Director of palliative medicine services at the PVAMC, she oversees a 10 bed inpatient hospice and palliative care unit, a palliative medicine consultation service and a palliative medicine outpatient clinic. Dr. Kapo makes extensive contributions to the education of the geriatric medicine fellows, residents, medical students, and nursing students. She was instrumental

in developing the Palliative Care Fellowship which has been accredited by the Accreditation Council for Graduate Medical Education and she currently directs the program. She serves as faculty for the Education in Palliative and End-of-Life-Care curriculum across the Department of Veterans Affairs. She is a member of the American Academy of Hospice and Palliative Medicine, the American Geriatrics Society and the Gerontological Society of America and is assistant editor of the *Journal of Hospital Medicine*.

### Jason Karlawish, M.D.

*Professor of Medicine*

Dr. Karlawish is an influential leader in the field of ethics and decision-making related to dementia. His research focuses on ethical, legal and social issues in research and care involving patients with Alzheimer's Disease and related neurodegenerative disorders. His investigations include informed consent, quality of life, decision-making in research studies and in treatment, voting rights and validating and disseminating methods to address decision-making capacity. He has a history of successfully securing funding for his research. He has contributed peer-reviewed publications in prestigious journals including *Journal of the American Medical Association*, *Neurology*, *American Journal of Psychiatry* and *Journal of the American Geriatric Society*. He is highly regarded for his expertise and delivery of care of patients with dementia and memory loss. He is the editor for Ethics, Public Policy and Medical Economics for the *Journal of the American Geriatrics Society*. He has served on numerous review groups for the NIH and private foundations. Dr. Karlawish is the Director of the Education, Recruitment and Retention Core of Penn's National Institute of Aging funded Alzheimer's Disease Core Center. He lectures nationally and internationally. He is a member of a number of professional and scientific societies and has participated on the program committee of the Alzheimer's Association International Conference meetings for the past three years.

### John H. Kempen, M.D., Ph.D., M.P.H., M.H.S.

*Associate Professor of Ophthalmology\**

Dr. Kempen is an internationally recognized physician-scientist in the field of ophthalmology whose novel research focuses on ocular inflammatory diseases and ophthalmic epidemiology. He has an impressive history of funding from federal, industry and foundation sources. He is recognized for his significant achievements in leading the Systemic Immunosuppressive Therapy for Eye Disease (SITE) study, the first multi-center clinical research study funded by the NIH that has been highly influential in formulating treatment for patients with inflammatory eye disease. He serves as international Vice-Chair of the Multicenter Uveitis Steroid Treatment (MUST) Trial. He founded an ocular inflammation service at the University of Pennsylvania that serves as a referral center for patients in the region and beyond. His scholarly contributions are in leading journals including *Archives of Internal Medicine*, *Ophthalmology*, *American Journal of Ophthalmology*, *The Journal of Infectious Diseases* and *AIDS*. He is a member of the editorial board of the *American Journal of Ophthalmology* and serves as its executive editor of ocular inflammation. He is also an editorial board member for *Ophthalmic Epidemiology* and a founding board member of the *Journal of Ophthalmic Inflammation and Infections*. He reviews grants for the NIH and the Singapore Ministry of Health. His extensive work on ocular complications of AIDS led to a prestigious Presidential appointment to the Office of AIDS Research Advisory Council from 2004 through 2008. Dr. Kempen is the primary advisor in developing the University of Botswana School of Medicine Department of Ophthalmology. He has been elected to membership in the American Uveitis Society and the International Uveitis Study Group, the most prestigious organizations in his field.

*\*Faculty appointment has been converted to tenure.*

### Ellen J. Kim, M.D.

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

Dr. Kim is a nationally prominent academic dermatologist with expertise in the diagnosis and management of patients with cutaneous T-cell lymphoma (CTCL). Her clinical research focuses on novel treatments for CTCL, particularly systemic agents for refractory patients. She has participated as site principal investigator in numerous industry sponsored multicenter clinical trials. She has contributed publications in prominent journals including *Journal of the American Academy of Dermatology*, *Archives of Dermatology* and the *Journal of Investigative Dermatology*. She is a reviewer for several journals including *Journal of the American Academy of Dermatology*, *Archives of Dermatology*, *Clinical and Experimental Dermatology* and *Journal of Dermatological Science*. Dr. Kim is an outstanding teacher and mentor of medical students, residents, and fellows. She received the Department of Dermatology Teaching Award in 2005 from the residents. She is regularly invited to speak at the American Academy of Dermatology annual meetings. In 2006, she completed the Masters in Academic Dermatology Leadership Program of the American Academy of Dermatology. She is a member of the International Society of Cutaneous Lymphomas, the American Academy of Dermatology and the Society of Investigative Dermatology. She is currently Chair of the Patient Advocacy Committee of the United States Cutaneous Lymphoma Consortium.

### Stephen E. Kimmel, M.D., M.S.C.E.

*Professor of Medicine*

Dr. Kimmel is a national and international leader in cardiovascular pharmacoepidemiology and pharmacogenomics. He applies a wide array of epidemiologic methods to focus on the adverse and beneficial cardiac effects of medications, the influence of genetic differences on outcomes, particularly warfarin, and on understanding and improving medication adherence. In recognition of his contributions to his field, he was elected

to membership in the American Society for Clinical Investigation in 2007. He has been highly successful in obtaining extramural funding for his research from federal and industry sources. He has contributed over 100 peer-reviewed publications in top-tier journals including *Circulation*, *The New England Journal of Medicine* and the *Archives of Internal Medicine*. He recently co-edited the *Textbook of Pharmacoepidemiology*, which is considered the standard textbook for graduate education in pharmacoepidemiology. He is an associate editor of *Pharmacoepidemiology and Drug Safety* and also serves as a grant reviewer for the NIH. Dr. Kimmel is active in the educational administration of the graduate programs within the Department of Biostatistics and Epidemiology and serves as deputy director of the epidemiology division within the department and deputy director of the clinical epidemiology unit within the CCEB. He received the Excellence in Teaching Epidemiology Award in 2007-2008. He is a member of the International Society of Pharmacoepidemiology, the American College of Cardiology, the American College of Epidemiology and the Society for Epidemiologic Research.

### Sara B. Kinsman, M.D., Ph.D., M.S.C.E.

*Associate Professor of Clinical Pediatrics*

Dr. Kinsman has achieved national recognition for her expertise in adolescent medicine. She focuses on the evaluation and management of adolescents with complex medical-psychiatric disorders. She has developed a specialty care practice for adolescents with complex somatic disorders and has assumed leadership for coordination of the inpatient attending service in adolescent medicine. Dr. Kinsman is an outstanding teacher and mentor of medical students, residents and fellows in the clinical and didactic settings. She is embarking on an education project to promote the healthy development of adolescents in military families. She is an active member of the Society for Adolescent Medicine, participates on the Adolescent Health Task Force for the Pennsylvania

Department of Health, and served as President of the Mid-Atlantic Division of the Society for Adolescent Medicine

### Jennifer R. Kogan, M.D.

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

Dr. Kogan is a national leader in medical education who has made substantial and influential contributions to the educational missions of the Department of Medicine and the Perelman School of Medicine. Her research focuses on developing, implementing and evaluating tools that can be used to enhance the feedback and assessment trainees receive about their clinical skills. She has developed innovative educational programs designed to enhance medical student education including interactive, clinically-based, longitudinal, faculty-facilitated education sessions, an integrative case conference series designed to integrate the basic sciences into clinical medicine, and simulation exercises to facilitate transitions to higher levels of clinical responsibility. Dr. Kogan is also a highly regarded and skilled clinician. Her publications focus primarily on her educational activities and are in prominent journals including the *Journal of the American Medical Association*, *Academic Medicine* and the *Journal of Internal Medicine*. She has received numerous awards for her teaching and research including the John Eisenberg Award for Excellence in Clinical Teaching in 2000, the Research in Medical Education Award from the Clerkship Directors in Internal Medicine (CDIM) in 2005, the Clinician-Educator Award from the Mid-Atlantic Region of the Society on General Internal Medicine in 2006, the Louis N. Pangaro Educational Innovations Award from the CDIM in 2009 and the Department of Medicine Donald B. Martin Teaching Service Award in 2010. She is President-Elect of the CDIM and will serve as President in 2011-2012. She was also appointed by the Mid-Atlantic Region of the Society of General Internal Medicine to serve as the Secretary-Treasurer Elect and Secretary-Treasurer in 2010-2011. She is recognized for her leadership of the CDIM's development of computer based core curricular

educational cases that have been developed in conjunction with pediatrics, family medicine and clerkship director organizations. She has presented her work at the important national meetings in clinical education such as the Association of American Medical Colleges, the Society of General Internal Medicine and the Clerkship Directors in Internal Medicine.

### Dennis L. Kolson, M.D., Ph.D.

*Professor of Neurology*

Dr. Kolson is a nationally and internationally eminent clinical neurologist who is acknowledged for his expertise in the neuropathogenesis of human immunodeficiency virus (HIV) infection. His research focuses on the basic science of HIV-associated neurodegeneration with a complementary clinical focus on both HIV-1 and multiple sclerosis-associated neurodegeneration. As a member of a highly productive research team, his role is recognized as unique and important. He has a history of continuous grant funding. His publications are in prestigious journals including *American Journal of Pathology*, *AIDS*, *Neurology*, *Journal of Neuroscience and Virology*. He is on the editorial board of the *Journal of Neurovirology*. He serves regularly on NIH study sections, steering committees and special emphasis panels. Dr. Kolson has an exemplary record as a teacher and mentor of medical students, graduate students, residents and postdoctoral fellows. He is a member of the Cell and Molecular Biology and the Neurosciences graduate groups and the MD/PhD advisory committee. He presents his work nationally. He is a member of a number of professional and scientific societies including the American Academy of Neurology, the American Association for the Advancement of Science and the American Society of Virology.

### Ian D. Krantz, M.D.

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

Dr. Krantz is an outstanding human molecular geneticist whose innovative research focuses on the molecular controls of human developmental

disorders. His many research contributions include being part of the team that identified Jagged 1 as the Alagille syndrome disease gene; identification of the first gene to cause Cornelia de Lange syndrome (CdLS) and implicating the cohesion pathway for the first time in a human developmental disorder; and identification of additional genes in the cohesion pathway that also cause CdLS. He has established a number of clinics at CHOP to address specific genetic disorders such as Alagille syndrome, Cornelia de Lange syndrome and hearing loss and is recognized as an expert in the diagnosis, care and management of children with those conditions. His scholarly contributions are in leading journals including *Nature Genetics*, *American Journal of Human Genetics*, *American Journal of Medical Genetics*, *PLoS Biology* and *PLoS One*. He has co-edited one of the premier textbooks in human genetics, *Gorlin's Syndrome of the Head and Neck*. He is an editorial board member of the *American Journal of Medical Genetics* and a reviewer for numerous additional journals. He is a regular member of the Developmental Biology Subcommittee of the National Institute of Child Health and Human Development and has served on many review committees for the NIH and international grant review organizations and foundations. Dr. Krantz received the Dean's Award for Excellence in Basic Science Teaching in 2005. He is the residency/fellowship director for the CHOP Clinical Genetics Program and has served as Medical Director for the Genetic Counseling Program at Arcadia University since 2009. He is invited to lecture nationally and internationally. He is a member of the Scientific Advisory Committees of the Cornelia de Lange Syndrome international and national foundations and the Scientific Advisory Committee of the Alagille Syndrome Alliance.

### Sriram Krishnaswamy, Ph.D.

*Professor of Pediatrics*

Dr. Krishnaswamy is a highly respected enzymologist in the field of blood coagulation. His research focuses on the enzymology and physical biochemistry of the serine proteases and enzyme complexes of blood coagulation. He has had

continuous funding for his research since 1987. He has contributed peer-reviewed publications in high impact journals including the *Journal of Biological Chemistry*, *Blood* and *Proceedings of the National Academy of Sciences*. He is associate editor of *Thrombosis Research* and serves on the editorial boards of the *Journal of Biological Chemistry* and the *Journal of Thrombosis and Haemostasis*. He frequently serves on grant review committees for the American Society for Hematology, the American Heart Association and the NIH. Dr. Krishnaswamy makes important contributions as an educator and mentor of graduate students, undergraduate students and postdoctoral fellows. He lectures nationally and internationally including Gordon Conferences and Federation of American Societies for Experimental Biology (FASEB) conferences. He has been designated the 7th biennial Stuart Stone Lecturer for the 2011 FASEB Conference on Proteases in Hemostasis and Vascular Biology. He was elected as Chair for the 2010 Gordon Research Conference on Hemostasis. He is a member of a number of professional and scientific societies.

### Daqing Li, M.D.

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

Dr. Li is an accomplished physician-scientist whose basic and translational research focuses on therapeutic strategies in head and neck cancer. In his role as Director of the Gene and Molecular Therapy Laboratory, he studies gene therapy related to hearing loss and head and neck cancer treatment. He is an excellent clinician who directs the departmental residents clinic. He has a strong history of securing research funding. His peer-reviewed publications are in prominent journals including *Laryngoscope*, *Otolaryngology – Head and Neck Surgery*, *Archives of Otolaryngology* and the *Journal of Clinical Investigation*. He is co-editor of *The International Journal for Oto-Rhino-Laryngology and Its Related Specialties*, a member of the editorial boards of *Ear, Nose and*

*Throat Journal*, *Journal of Clinical Otolaryngology – Head and Neck Surgery*, *China* and *Journal of Chinese Otolaryngology – Head and Neck Surgery*. He has served on grant review committees for the NIH. Dr. Li is the Director of the Temporal Bone and Skull Base Surgery Training Laboratory and provides critical training in ear and skull base surgery. He founded and organized the Penn Temporal Bone Surgical Dissection Course for residents at Penn as well as Temple and Jefferson. He also serves as Director of the International Visiting Physician Program. He is an elected fellow of the American Academy of Otolaryngology – Head and Neck Surgery and a member of the American Society of Gene Therapy, the American Association of Cancer Research, the Association for Research in Otolaryngology and the American Association for the Advancement of Science.

### Harold I. Litt, M.D., Ph.D.

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

Dr. Litt is a nationally prominent academic radiologist with expertise in non-invasive cardiovascular imaging. His collaborative research focuses on the development, clinical application, and evaluation of new magnetic resonance imaging (MRI) and computed tomography (CT) cardiovascular imaging techniques and includes the application of coronary CT imaging in the emergency department, MR imaging of patients with implanted devices, and non-linear mathematical modeling of cardiac motion. He is the Director of the Center for Advanced Computed Tomography Imaging Sciences and he has been successful in building a nationally recognized cardiovascular imaging section. He has contributed publications in notable journals including *American Journal of Cardiology*, *Academic Emergency Medicine* and *Radiology*. He is associate editor of *Academic Radiology*. In 2009, he was awarded the Editors' Recognition Award for Distinction. Dr. Litt is the Fellowship Director for the Cardiovascular Imaging Fellowship. He lectures nationally and internationally. He is active in the North American Society for Cardiovascular Imaging, participating in the scientific and

educational programs at the annual meetings and serving as the program Co-Chair in 2009 through 2011. He is a member of the Cardiovascular Radiology and Interventions Council Program Committee and Early Career and Mentoring Committee for the American Heart Association and is a member of the Cardiovascular Scientific Committee of the American College of Radiology Imaging Network.

### Leslie A. Litzky, M.D.

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

Dr. Litzky has made major contributions to the field of pulmonary pathology in the areas of malignant mesothelioma, lung cancer and non-neoplastic lung disease. She provides critical clinical and administrative service in her roles as Director of the Section of Medical Pathology and Subspecialty Director of Thoracic Pathology in the Section of Surgical Pathology. She is widely acknowledged as the “go-to” diagnostician for lung pathology. She is highly regarded for her contributions to the literature that refine clinical, radiographic and pathological understanding of mesothelioma. She is Section Editor of Pulmonary Pathology for the *Archives of Pathology and Laboratory Medicine* and is a reviewer for *Modern Pathology* and the *Journal of Thoracic Oncology*. Dr. Litzky is an outstanding teacher who has had a substantial impact on the education of medical students, residents, and fellows. Among her many awards are The James E. Wheeler, M.D. Award for Excellence in Anatomic Pathology Resident Teaching in 2005, Basic Science Teaching Award for best pathology instructor from the School of Medicine Class of 2010 in 2007, The Peter C. Nowell Teaching Award of the Department of Pathology and Laboratory Medicine in 2007 and the Basic Science Teaching Award for best lecturer in the pulmonary course from the School of Medicine Class of 2012. She lectures nationally including presentations at the Pulmonary Pathology Society Biennial Meetings in 2007 and 2009 and the 15th Annual Perspectives in Thoracic Oncology Meeting in 2010. She is a member of

the American Society of Clinical Pathologists, the United States/Canadian Academy of Pathology, the American Thoracic Society and the Pulmonary Pathology Society.

### David W. Low, M.D.

*Professor of Surgery at the  
Hospital of the University of Pennsylvania  
and The Children's Hospital of Philadelphia*

Dr. Low is an expert in adult and pediatric plastic and reconstructive surgery. He is recognized particularly for his clinical acumen in the management of some of the most challenging reconstructive cases involving cleft lip and palate, vascular malformations and complex microsurgery. He received the Best Microsurgical Save of 2008 award from the American Society of Reconstructive Microsurgery, the premier microsurgical society. His research focus complements his clinical practice. In addition to publications in leading specialty journals including *Plastic and Reconstructive Surgery*, *American Journal of Surgery* and *Annals of Thoracic Surgery*, he also makes substantial academic contributions as a medical illustrator. He has provided illustrations for greater than 90 publications and has illustrated seven books, including one in which he served as the art editor. He is a reviewer for the *Journal of Colon and Rectal Surgery*, *Cleft Palate-Craniofacial Journal* and *Annals of Thoracic Surgery*. Dr. Low has served as the Director of the Pediatric Plastic Surgery Fellowship at CHOP since 2009. He has received multiple teaching awards including the Division of Plastic Surgery's Inaugural Don LaRossa Teaching Award in 2007. He was instrumental in reestablishing a biannual plastic surgery teaching symposium for medical students in the Philadelphia area who may be considering a career in plastic surgery. He presents his work nationally including presentations at the American Society for Reconstructive Microsurgery and the Northeastern Society of Plastic Surgeons meetings. He is a member of the American Society of Plastic Surgery, the Association of Medical Illustrators and the American Association of Plastic Surgeons.

## David R. Lynch, M.D., Ph.D.

*Professor of Neurology*

Dr. Lynch is an internationally prominent basic and translational researcher who has made a significant impact in two areas. His neuroscience investigations focus on the structure, pharmacology and regulation of NMDA-type glutamate receptors and have potential therapeutic applications for diseases such as Huntington's and Alzheimer's. His clinical research focuses on neurogenetics with a particular emphasis on Friedreich ataxia (FA), a rare inherited disease characterized by degeneration of nerve fibers in the spinal cord. In 2008, he received the Friedreich Ataxia Research Alliance Service Award. Dr. Lynch has a highly successful record of securing funding for his research. His peer-reviewed publications are in high impact journals including *Journal of Biological Chemistry*, *The Lancet*, *Neurology*, and the *Journal of Neuroscience*. He is a member of the editorial board of the *Journal of Neurogenetics* and associate editor for the *Journal of Neuroscience*. He is a reviewer for the NIH and also for the Australian Medical Research Council, the French Government Scientific Review and the Government, Czech Republic. Dr. Lynch lectures nationally and internationally. He serves on the scientific advisory boards of the Friedreich Ataxia Research Alliance and the National Ataxia Foundation. He is a member of the American Academy of Neurology and the Neurogenetic Topic Working Group. He has held organizing roles in meetings of the Society for Neuroscience and the American Academy of Neurology.

## Kevin G. Lynch, Ph.D.

*Associate Professor of Biostatistics in Psychiatry at the Veteran's Affairs Medical Center, the Hospital of the University of Pennsylvania, and The Children's Hospital of Philadelphia*

Dr. Lynch is a highly accomplished independent and collaborative biostatistician in psychiatric research, particularly in clinical studies of addiction. His methodological research focuses on the use of causal inference methods in the context of adaptive

treatment designs and mediation analyses. He is a valued collaborator who has been central in the planning, design and analysis of clinical trials and provides the quantitative skills necessary for the conduct of research. He is the Director of the Biostatistics and Informatics Core in the Center for Studies of Addiction. His research is funded by federal sources. His peer-reviewed publications are in notable journals including *Archives of Internal Medicine*, *Journal of the American Medical Association*, *Journal of the American Statistical Association* and *Statistics in Medicine*. He is a consulting editor for statistics for the *Journal of Bipolar Disorders and Psychology of Addictive Behaviors*. He has reviewed grants for several NIH study sections. In 2009, Dr. Lynch received the Center for Clinical Epidemiology and Biostatistics Graduate Program in Biostatistics Teaching Award. He is a member of the American Statistical Association and the Biometric Society.

## Domenic A. Marchiano, M.D.

*Associate Professor of Clinical Obstetrics and Gynecology*

Dr. Marchiano has distinguished himself as an outstanding clinician. He is widely known as a leader in the delivery of quality care in high risk obstetrical patients with maternal and/or fetal complications and for his expertise in fetal heart monitoring. He was instrumental in developing the laborist program and in working with hospital and nursing leadership to implement day-to-day operational strategies that ensure patient safety and care. He makes key contributions as a dedicated educator of medical students and residents. He has received several teaching awards including the Clarence Briscoe Award for Excellence in Teaching in Practice at Pennsylvania Hospital in 2004 and 2009 and the Association of Professors of Gynecology and Obstetrics Excellence in Teaching Award at Pennsylvania Hospital in 2005. He assumed the role of Program Director of the Residency Program in 2009 and has completely redesigned the curriculum. He is a Fellow in the American College of Obstetricians and Gynecologists and a member of the Society of Maternal-Fetal Medicine and the American Institute of Ultrasound in Medicine.

## Thornton B. A. Mason, II, M.D., Ph.D.

*Associate Professor of Clinical Neurology*

Dr. Mason is an outstanding pediatric neurologist with particular expertise in the assessment and treatment of sleep disorders in children and adolescents. He is an integral member of the multidisciplinary Sleep Center at CHOP. He is an enthusiastic and respected teacher of medical students, nursing students, residents and fellows. He directs the pediatric sleep medicine fellowship training program at CHOP and serves on the Fellowship Committee in the division of sleep medicine at Penn. Dr. Mason is a member of the Child Neurology Society, the American Academy of Neurology and the Sleep Research Society. He is a reviewer for *Sleep* and the *European Journal of Pediatric Neurology*.

## Robert L. Mauck, Ph.D.

*Associate Professor of Orthopaedic Surgery*

Dr. Mauck is advancing the field of orthopaedic bioengineering through his innovative independent and collaborative research on musculoskeletal tissue engineering. He uses mechanical and molecular analyses to characterize native tissue structure and function, using this information to engineer improved functional properties of stem cell, culture, cell scaffolding based tissue replacements. He received the highly competitive 2009 Y.C. Fung Award from the American Society of Mechanical Engineering, awarded to the most promising bioengineer in the country under the age of 36. He has extensive research funding. His peer-reviewed publications are in prestigious journals including the *Journal of Orthopaedic Research*, *Journal of Biomechanical Engineering* and *Nature Materials*. In 2008, he was awarded the best engineering paper in *Spine* from the International Society for the Study of Lumbar Spine. He is on the editorial boards of *Stem Cell Review Letters* and *Tissue Engineering (Parts A, B, and C)*. He has been an active grant reviewer for many organizations including the NIH, Biotechnology and Biosciences Research Council, Austrian Science Fund, and the US-Israel Binational Science Foundation. In 2010, he was elected Chair of the Tissue Engineering

Review Session for the Department of Veterans Affairs and in 2009, he was named as a consultant and panel member for the Food and Drug Administration, Orthopaedic and Rehabilitation Panel. Dr. Mauck is an excellent teacher and mentor of undergraduate and graduate students and orthopaedic residents. He is a member of the International Cartilage Repair Society and Tissue Engineering and Regenerative Medicine International Society and serves on the Solid Biomechanics Committee and Tissue Engineering Committee of the American Society of Mechanical Engineers. He presents his work nationally and internationally and has held organizing roles in scientific meetings such as Symposium Chair for the 6th World Congress on Biomechanics, Track Chair for the 56th Annual Meeting of the Orthopaedic Research Society and Session Chair for the Materials Research Society.

## David S. Metzger, Ph.D.

*Research Professor of Social Policy in Psychiatry*

Dr. Metzger is a nationally and internationally recognized independent and collaborative investigator in the field of HIV infection. His investigations focus on the behavioral aspects of HIV, particularly assessing the role that different types of drug treatment programs have on HIV prevention. In 2007, he received the Excellence in International Leadership Award from the National Institute on Drug Abuse, International Program. This award celebrates outstanding contributions to international cooperation in drug abuse research and training. In 2002, he was named Director of the Behavioral and Social Sciences Core of the Penn Center for AIDS Research (CFAR). He has an impressive history of research funding. His numerous peer-reviewed publications are in leading journals in his field including *The Journal of Acquired Immune Deficiency Syndrome*, *The American Journal of Psychiatry*, *Drug and Alcohol Dependence* and the *American Journal of Public Health*. He served on the NIH Acquired Immune Deficiency Syndrome Study as an ad hoc member from 1999-2009 and has served on an advisory group for the Department of Veterans Affairs and as a consultant for the Global Aids Program for the

Centers for Disease Control. Dr. Metzger is invited to present his work nationally and internationally. He is a member of the American Public Health Association, the Society of Behavioral Medicine and the American Psychological Association.

### Michael E. Ming, M.D., M.S.C.E.

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

Dr. Ming is an expert in the field of pigmented lesions and dermatoepidemiology. His research focuses on risk factors associated with melanoma outcomes such as melanoma-related death, metastasis and the development of additional independent melanomas and the role of dermatopathologic interpretation in melanoma management and diagnosis. His studies have resulted in a significant alteration in national management standards for melanoma patients. He is the Director of the Pigmented Lesion Clinic at HUP, a multi-disciplinary model of care and one of the nation's leading programs dedicated to the prevention, diagnosis, and treatment of malignant melanoma. His scholarly contributions are in important journals in the field including the *Journal of the American Academy of Dermatology* and *Archives of Dermatology*. He was the section editor for Off-Center Fold of the *Archives of Dermatology* from 1999 – 2009 and served as guest editor for a special issue on pigmented lesions for *Seminars in Cutaneous Medicine and Surgery*. Dr. Ming designed and directs an educational conference series for teaching melanoma to dermatology residents, dermatopathology fellows and medical students. He is a member of the Scientific Assembly Committee of the American Academy of Dermatology, which determines the educational content of the annual meeting. He has had additional positions in the American Academy of Dermatology including his current position as Chair of the Needs Assessment Task Force and as a member of the Melanoma/Skin Cancer Committee and the Organizational Structure Committee. He is the President of the American Dermatoepidemiology Network.

### Nandita Mitra, Ph.D.

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

Dr. Mitra is a highly accomplished independent and collaborative biostatistician who has had a significant impact in the design and analysis of a large number of research studies in cancer genetics and human genetics. She has also made contributions in methodological research focusing on the development of methods for the analysis of observational data and the development of methods for genetic association studies. She has key roles in federal and foundation grants. Her publications are in prominent journals including *Nature Genetics*, *Journal of the American Medical Association* and *Cancer*. She is statistical editor of *Gastroenterology* and a reviewer for numerous additional journals. She has reviewed grants for the NIH, the Economic and Social Research Council in Great Britain and The Netherlands Organization for Health Research and Development. Dr. Mitra serves as Director of Statistics for the Masters of Science in Health Policy Research Program and the Robert Wood Johnson Clinical Scholars Program and has been instrumental in developing a curriculum, directing the course in regression modeling and overseeing the statistical mentorship of over 30 fellows. She has presented her work nationally. She serves on the board of the Eastern North American Region (ENAR) of the International Biometric Society.

### Emile R. Mohler, III, M.D.

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

Dr. Mohler is recognized nationally and internationally for his expertise in vascular medicine. His clinical and translational research focuses on cardiovascular calcification and the molecular mechanisms underlying atherosclerotic peripheral artery disease and novel approaches to its treatment. In 2009, he was named Director, Vascular Medicine, Penn Heart and Vascular

Center and Co-Director, Non-Invasive Vascular Imaging Laboratory at the Perelman Center for Advanced Medicine. He has a history of continuous funding for his research. He has contributed numerous publications in prominent journals including *Journal of the American College of Cardiology*, *Nature Medicine*, *Circulation* and *The Lancet*. He is a member of the editorial boards of *Atherosclerosis*, *Thrombosis and Vascular Biology*, *Thrombosis Research*, *Endovascular Today*, *Vascular Medicine* and editor of *Vascular Medicine Section*, *UpToDate in Medicine* and *Heartinfo.com*. Dr. Mohler makes substantial contributions to teaching, including serving as director of the NIH-sponsored fellowship program in vascular medicine, one of the leading programs in the United States. He is a member of the Research Committee of the American Society of Echocardiography and a member of the Board of Directors for the Intersocietal Commission for Accreditation of Vascular Laboratories. He has served as Chair of the Peripheral Arterial Disease Committee of the American College of Cardiology since 1995. He is also a Board Member of the Cardiovascular Certification and Recertification Program for the American Board of Internal Medicine. He has held numerous organizing roles for scientific meetings for the American College of Cardiology, the American Heart Association, the American Society of Echocardiography and the Society for Vascular Medicine and Biology.

### Kathleen T. Montone, M.D.

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

Dr. Montone is an outstanding diagnostic surgical pathologist and a highly collaborative translational researcher. Her investigations are focused on tissue based infectious disease detection and rapid diagnosis and collaborative otorhinolaryngology and endocrine studies, particularly sinonasal fungal disease. Her numerous scholarly contributions are in leading journals including *Diagnostic Molecular Pathology*, *American Journal of Clinical Pathology* and *Head and Neck*. In 2008, she was elected to the prestigious Arthur Purdy Stout Society of Surgical Pathologists which recognizes significant

career achievements by surgical pathologists whose research publications, whether clinical or basic, have had a major impact on diagnostic pathology. She is on the editorial board of *Diagnostic Molecular Pathology* and is a reviewer for numerous additional journals. She has been a member of the International Advisory Board of *Pathology International* since 2001. In 2007, the residents selected Dr. Montone for the Department of Pathology and Laboratory Medicine Kevin E. Salhany Memorial Award for Excellence in Clinical Teaching. As Director of gynecologic pathology, she has developed the gynecologic pathology curriculum of the anatomic pathology didactic lecture series. In 2010, she was elected to the Infectious Disease Clinical Practice Committee of the Association for Molecular Pathology. She has held organizing roles in scientific meetings of the American Society of Clinical Pathology, the United States and Canadian Academy of Pathology and the Pathology Society of Philadelphia.

### Jennifer S. Myers, M.D.

*Associate Professor of Clinical Medicine*

Dr. Myers is a distinguished clinical leader in patient care and in organizing new patient safety and quality programs. As a hospitalist, she is recognized for her diagnostic acumen and compassionate patient care. She has led or has been an active contributor to numerous quality improvement initiatives at HUP including improving chest pain triage and reducing length of stay, teaching quality discharge summary skills to interns, developing a rapid response team and improving hospital discharge transitions. As HUP's Patient Safety Officer, she provides clinical oversight and leadership for the incident reporting system and medical error review process. In 2008, Dr. Myers was the recipient of the Andrew I. Schafer Award for Outstanding Service in the Department of Medicine. Dr. Myers is an enthusiastic and innovative educator of medical students and residents and serves as the Assistant Program Director for the Internal Medicine Residency Program. She created a medical student curriculum on patient safety and is developing an institutional curriculum for quality and safety at the graduate

medical education level. She was recently named the Director of Training Programs for the newly created Center for Healthcare Improvement and Patient Safety.

### **Nirmala Nirinjini Naidoo, Ph.D.** *Research Associate Professor of Medicine*

Dr. Naidoo is an innovative independent and collaborative researcher who uses both mouse and *Drosophila* models to focus on the molecular mechanisms of sleep deprivation. One of her major contributions is the demonstration that the unfolded protein response and expression of the chaperone BiP are upregulated with prolonged wakefulness and that BiP plays a role in sleep homeostasis. In addition, Dr. Naidoo is studying age-related changes in cellular protective pathways in response to sleep deprivation. She has been successful in obtaining funding to support her research. Her peer-reviewed publications are in top tier journals such as *Sleep*, *Sleep Medicine*, *Journal of Neuroscience* and *Neuron*. She is a review editor for *Frontiers in Chronobiology and Sleep Medicine* and a reviewer for numerous additional journals. She is a member of an NIH special emphasis panel. Dr. Naidoo presents her work nationally and internationally. She is a member of the American Chemical Society, the American Academy of Sleep Medicine, the Society for Neuroscience and the Sleep Research Society.

### **Cory F. Newman, Ph.D.** *Professor of Psychology in Psychiatry at the Hospital of the University of Pennsylvania*

Dr. Newman is a highly accomplished and internationally recognized expert in cognitive behavioral therapy. He is the Director of the Center for Cognitive Therapy, known for outstanding clinical service, training and research. He is a leading clinical trial therapist and participates as a cognitive therapist and supervisor in studies on treatment for chronic depression, generalized anxiety disorder, panic disorder,

borderline personality disorder, avoidant and obsessive-compulsive personality disorder, bipolar disorder and depression in young mothers who have given birth prematurely. His publications are in prominent journals in his field including *Journal of Consulting and Clinical Psychology*, the *Journal of Clinical Psychiatry* and *Psychotherapy: Theory, Research, Practice, Training*. He is a reviewer for numerous journals including *Journal of Clinical Psychology*, *Cognitive Therapy and Research* and *Behavioural and Cognitive Psychotherapy*. Dr. Newman received the Earl Bond Award for distinguished teaching and supervision of psychiatry residents in 2004 and, in 2006, he received the 5th Annual Penn Psychotherapy Professorship Award. He lectures nationally and internationally and is regularly invited to conduct training and provide workshops for organizations such as the Association for Behavioral and Cognitive Therapies and the World Congress of Behavioral and Cognitive Therapy. He is a member of the International Association of Cognitive Psychotherapy, the Association for Behavioral and Cognitive Therapy and the American Psychological Association.

### **David E. Nicklin, M.D.** *Associate Professor of Clinical Family Medicine and Community Health*

Dr. Nicklin is an outstanding clinician and educator. He is widely acknowledged for his tireless devotion to his patients and for his valuable contributions to the Penn-Botswana Program. Dr. Nicklin is also a highly effective teacher and mentor of medical students and residents. He is the Associate Residency Director and is considered a role model for many generations of family medicine trainees. The residents have awarded him the departmental patient care award in five of the eight years since its inception. In 2009, he received the Award for Exemplary Teaching from the Pennsylvania Academy of Family Physicians. He is a member of the American Academy of Family Physicians and the Society of Teachers of Family Medicine.

### **Una O'Doherty, M.D., Ph.D.** *Associate Professor of Pathology and Laboratory Medicine at the Hospital of the University of Pennsylvania*

Dr. O'Doherty is a distinguished academic pathologist who is a national leader in academic transfusion medicine, apheresis and blood banking. Her research focuses on the viral and cellular mechanisms that enable HIV to establish latent infection and she was the first to show that HIV integrates directly into resting CD4+ T cells. She has also developed clinical and translational research focusing on the development of tools to measure HIV integration for patients as a surrogate marker of HIV reservoir size for use in diagnostics and clinical trials. She serves as Director of the Stem Cell Laboratory. She has an impressive funding history. Her publications are in premier journals including the *Journal of Virology*, two of which have been cited more than 100 times, and the *Journal of Experimental Medicine*. She is a reviewer for several journals including the *Journal of Immunology and Virology*. She has served on NIH study sections and grant review committees for the National Blood Foundation and the American Foundation for AIDS Research. Dr. O'Doherty is a member of a number of professional and scientific societies including the International Society of Cellular Therapy, the American Association of Blood Banks, the American Society of Hematology and the American Society of Apheresis where she serves as a member of the Public Affairs Committee. She presents her work nationally and internationally.

### **Bruce R. Pawel, M.D.** *Associate Professor of Pathology and Laboratory Medicine at The Children's Hospital of Philadelphia*

Dr. Pawel is a nationally prominent pediatric pathologist whose clinical and translational research focuses on the pathology of pediatric tumors, particularly sarcomas and neuroblastomas. He has served as the pathology reviewer for the Children's Oncology Group study of Ewing sarcoma since 2005. He has contributed

publications in notable journals including *Pediatric and Developmental Pathology*, *Cancer Research*, and *Clinical Cancer Research*. He is on the editorial board of the *International Journal of Clinical and Experimental Pathology* and is a reviewer for *Pediatric Blood and Cancer* and *Pediatric and Developmental Pathology*. Dr. Pawel's primary teaching responsibility is in graduate medical education where he teaches pediatric pathology fellows at CHOP. He serves as a mentor in the Children's Oncology Group Young Investigator Program and is involved in continuing medical education. He was asked to present an accredited workshop on the pathology of neuroblastoma at the Spring Society for Pediatric Pathology national meeting. In 2009, he was invited to serve on the American Board of Pathology Test Development and Advisory Committee for Pediatric Pathology. He has been an active member of the North American Society for Pediatric Pathology, serving on multiple committees and co-organizing the 2009 Fall Meeting jointly held with the European Pediatric Pathology Society.

### **Taine T. V. Pechet, M.D.** *Associate Professor of Clinical Surgery*

Dr. Pechet makes substantial contributions as a physician, educator and administrator. He is a gifted diagnostician and an accomplished thoracic surgeon who promotes multidisciplinary care. In recognition of his patient-focused care, he received the Patient Advocacy Award at Penn Presbyterian Medical Center in 2009. Dr. Pechet is also recognized as a dedicated and highly regarded educator of medical students and residents. He serves as Vice-Chair of Surgery and President of the Medical Staff at Penn Presbyterian Medical Center. He is an examination consultant for The American Board of Surgery and a reviewer for the *Journal of Thoracic and Cardiovascular Surgery*, *Chest*, and *Annals of Surgical Oncology*.

### Sarah J. Ratcliffe, Ph.D.

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

Dr. Ratcliffe is an accomplished statistical methodologist and collaborative researcher who has had a significant impact on the design and analysis of translational research in reproductive and women's health and AIDS research. Her methodological research focuses on the development of new techniques in longitudinal data analysis with informative drop-outs and in functional data analysis. She serves as the biostatistician on numerous grants and as core co-director of the NIH funded Center for AIDS Research (CFAR) grant. She has contributed peer-reviewed publications in notable journals. She is an associate editor for *The American Statistician* and a reviewer for numerous additional journals. Dr. Ratcliffe makes impressive contributions as an educator and mentor in the graduate and doctoral programs in biostatistics and epidemiology within the Perelman School of Medicine and the School of Nursing. She received the University of Pennsylvania Graduate Program in Biostatistics Teaching Award for the 2007-2008 academic year. She is a member of the International Biometrics Society and the American Statistical Association. She presents her work nationally.

### Emily Schapiro, M.D.

*Professor of Clinical Pediatrics*

Dr. Schapiro is a highly regarded pediatric emergency medicine clinician who is acknowledged for her clinical acumen and compassion in providing emergency care. In recognition of her clinical administrative leadership, she was named Director of the Emergency Department Extended Care Unit at CHOP in 2006. Dr. Schapiro is an enthusiastic and committed educator and mentor of medical students, residents and fellows. In 2009, she was elected to the Faculty Teaching Honor Roll by the pediatric residents at CHOP. She is a member of the American Academy of Pediatrics,

the Society for Academic Emergency Medicine and the American College of Emergency Medicine.

### Samir S. Shah, M.D.

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

In a short period of time, Dr. Shah has emerged as a national leader in both pediatric infectious diseases and hospital medicine. His research focuses on the comparative effectiveness of strategies to diagnose and treat serious childhood infections such as pneumonia and meningitis and on improving systems of hospital care with an emphasis on measures of quality. He has an impressive funding record. His publications are in prestigious journals including *Pediatrics*, *Journal of the American Medical Association* and *Clinical Infectious Diseases*. He has been recognized for his accomplishments by election to the Society for Pediatric Research in 2007, receipt of the Excellence in Research Award from the Society of Hospital Medicine in 2009 and receipt of the Burtis Burr Breese Award of the Pediatric Infectious Diseases Society. He is a member of the editorial boards of *Archives of Pediatrics and Adolescent Medicine* and *Infection Control and Hospital Epidemiology* and serves as assistant editor for *Journal of Hospital Medicine*. Dr. Shah has been named to the Faculty Teaching Honor Roll at CHOP every year since joining the faculty. In 2006, he was named Director of Resident Education for the division of infectious diseases. As Research Director for Global Health at CHOP, he was instrumental in creating one of the first global health fellowship programs in the country. He has been an invited speaker at major national meetings such as annual meetings of the Society of Hospital Medicine and Pediatric Hospital Medicine.

### Emer M. Smyth, Ph.D.

*Research Associate Professor of Pharmacology*

Dr. Smyth's research contributions in prostanoid biology and signaling have achieved national and international recognition. Her independent and collaborative research focuses on the complex

role of prostanoids, particularly prostacyclin and thromboxane. She has expanded her investigations into the role of Cox and prostanoids in breast cancer. She has been successful in garnering extramural support for her research. Her peer-reviewed publications are in prominent journals including the *Journal of Biological Chemistry*, *Science* and *Proceedings of the National Academy of Sciences*. She participated in the preparation of chapters for the premier pharmacology textbook, *Goodman and Gilman's The Pharmacological Basis of Therapeutics*. She is associate editor of *Frontiers in Pharmacology of Inflammation* and a reviewer for numerous additional journals. She has reviewed grants for the NIH, the Wellcome Trust and the Irish Health Research Board. Dr. Smyth is an outstanding mentor of postdoctoral fellows and graduate students. She is invited to present her work nationally and internationally. She is a member of the American Society for Biochemistry and Molecular Biology and the American Heart Association where she is currently a member of the Women's Leadership Committee for the Arteriosclerosis, Thrombosis and Vascular Biology Council.

### Lisa J. States, M.D.

*Associate Professor of Clinical Radiology*

Dr. States is an outstanding and productive pediatric radiologist. She is widely recognized for her clinical expertise in general multimodality imaging of children, and also in her subspecialty focus of pediatric nuclear medicine. She is a highly sought after imaging consultant to clinicians and is a liaison to the Oncology Solid Tumor Group at CHOP. She serves as Director of Satellite Outpatient Imaging and under her leadership the volume of satellite imaging has increased significantly. She has championed the renovation of services at the King of Prussia Satellite and played a significant role in the development of a second satellite facility. Dr. States is a committed and skilled educator of medical students, residents, fellows and colleagues. She instituted a highly successful annual symposium for education of the community pediatrician. She is regularly invited to speak at the Society for Nuclear Medicine and the Society for Pediatric Radiology. She is an active

member of the Society for Pediatric Radiology and the Society for Nuclear Medicine and currently serves as board member of the Pediatric Council of the Society of Nuclear Medicine.

### Suleman Surti, Ph.D.

*Research Associate Professor of Physics and Instrumentation in Radiology*

Dr. Surti is recognized internationally for his expertise in nuclear medicine physics, particularly in position emission tomography (PET), an important medical imaging modality. His investigations focus on the physical limitations of the PET systems and on the development and measurements on completed PET scanners to validate the physical models and to optimize the imaging performance. He has recently expanded his research to include the development of application-specific PET devices that provide the flexibility to achieve optimal performance based upon the specific clinical or research needs. He has been successful in securing extramural funding. His publications are in premier journals in his field including *Journal of Nuclear Medicine*, *IEEE Transactions on Medical Imaging*, and *Physics in Medicine and Biology*. Dr. Surti is invited to lecture nationally and internationally. In 2006, he received the prestigious IEEE-NPSS-NMISC Young Investigator Medical Imaging Science Award. He is a member of the American Physical Society, the IEEE, and the Society of Nuclear Medicine. In January 2010, he was elected Vice-Chair of the Nuclear Medical and Imaging Sciences Council of the IEEE Nuclear and Plasma Sciences Society and in 2012 he will begin a two year term as Chair of the Committee.

### Wilson Y. Szeto, M.D.

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

Dr. Szeto is an outstanding academic cardiac surgeon who has had an impact on his field in a short period of time. He focuses on the development of percutaneous and endovascular

approaches to the thoracic aorta, as well as aortic valve and mitral valve repair and has been a leading innovator in this area. He serves as Surgical Director of Transcatheter Cardio-Aortic Therapies at Penn. He leads and participates in numerous clinical trials which focus on the development of new techniques and technologies. He has contributed numerous peer-reviewed publications, many of which are highly cited, and are in top subspecialty journals such as *Annals of Thoracic Surgery*, *The Journal of Vascular Surgery*, *The Journal of Thoracic and Cardiovascular Surgery* and *The Journal of Cardiac Surgery*. He is a reviewer for a number of cardiovascular and thoracic surgery journals. Dr. Szeto is a highly respected teacher and mentor of medical students and cardiac surgery and general surgery residents. He directs the didactic teaching program for the division of cardiovascular surgery. He has given nearly fifty invited talks in the United States since 2007. He is a member of the American Heart Association, the Society of Thoracic Surgeons, The American College of Surgeons and The International Society for Minimally Invasive Cardiothoracic Surgery.

### Pablo Tebas, M.D.

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

Dr. Tebas is an influential leader in HIV-related research and therapy whose translational research has made extensive contributions to the field of HIV infection. He focuses on the pathogenesis of viral infections and the development of HIV therapeutics. He is also an accomplished clinician whose expertise is often sought in the management of complicated cases. He directs the developmental core of the University of Pennsylvania Center for AIDS Research, one of the outstanding national centers in this field, and has key roles in federal and foundation grants and clinical trials. His publications are in high impact journals including *The New England Journal of Medicine*, *The Journal of the American Medical Association*, *Journal of Infectious Diseases*, and *AIDS*. He is editor for *AIDS Reviews* and editor of the *Complications*

*Section, Current HIV Reports*. He has served on NIH study sections and on national committees for the AIDS Clinical Trials Group. Dr. Tebas received the Infectious Disease Teaching Award in 2005 and was elected to membership in the Alpha Omega Alpha Medical Honors Society in 2007. He lectures nationally and internationally including presentations at prestigious meetings of the International Congress of Antimicrobial Agents and Chemotherapy and the Infectious Disease Society of America. He has held organizing roles in the last five years for the International Workshop on Adverse Drug Reactions and Lipodystrophy in HIV.

### Zelig A. Tochner, M.D.

*Professor of Radiation Oncology at the Hospital of the University of Pennsylvania*

Dr. Tochner is a distinguished contributor to the field of radiation oncology who is highly regarded for his expertise in radiotherapy and for his key role in the development of the Roberts Proton Therapy Center at Penn, the world's largest proton therapy center associated with an academic medical center and one of only six such centers in the country. He is the Vice-Chair and Clinical Director of the Proton Therapy Center and has been involved in every stage of the development of this advanced and comprehensive facility including design, construction and implementation. He has authored and implemented many of the departmental and clinical protocols for patients being treated with protons, establishing the framework to compare proton therapy with conventional radiation therapy. His publications are in prestigious journals including *Cancer*, *International Journal of Radiation Oncology*, *Biology and Physics* and the *Archives of Internal Medicine*. He reviews grants for the American Institute of Biological Sciences Scientific Peer Advisory and Review Services. Dr. Tochner has been a sought after lecturer nationally and internationally on the clinical applications of proton therapy. He is a member of a number of national and international professional and scientific societies. Since 2006, he has been a permanent member of the international steering

committee of the Particle Therapy Co-operative Group, the leading scientific organization for proton therapy and is chair of the 2011 organizing committee for their annual meeting.

### Drew A. Torigian, M.D., MA.

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

Dr. Torigian is an accomplished academic radiologist in body and musculoskeletal imaging, molecular and hybrid imaging and imaging clinical trials. His research focuses on the novel use of structural-functional image approaches to qualitatively evaluate disease processes. He received the ACRIN Network Chairs Institutional Award on behalf of the University of Pennsylvania for excellence in the conduct of clinical trials in 2006 and 2009. He has also received federal funding for his research. He is a highly respected clinician whose clinical practice covers a wide array of specialties and includes chest imaging, cardiovascular imaging, body CT, body MRI, and musculoskeletal radiology. He has contributed publications in high-profile journals in his field including *Radiology*, *Academic Radiology*, and *Molecular Imaging and Biology*. He is a reviewer for *Academic Radiology* and a guest editor for *Seminars in Nuclear Medicine* and *PET Clin*. Dr. Torigian is actively engaged in teaching inside and outside of Penn. He has presented at national and international meetings and is an important contributor to the imaging curriculum of the Society of Nuclear Medicine. He is a member of the Society of Thoracic Radiology, the Radiologic Society of North America, the American Roentgen Ray Society and the North American Society of Cardiac Imaging.

### Andrea B. Troxel, Sc.D.

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

Dr. Troxel has made substantial and innovative contributions to methodological and collaborative research. Her methodological research focuses on the development and use of statistical methods for

analysis of longitudinal data, nonignorable missing data, and quality of life (QoL) data. She is also a highly collaborative and influential contributor to the study design and protocol development and the conduct and analysis of clinical trials in oncology and behavioral research. She serves as Associate Director of the Biostatistics Resource for the Abramson Comprehensive Cancer Center, Director of Biostatistics in the Integrated Health Science Facility Core of the Center of Excellence in Environmental Toxicology and Director of Biostatistical Analysis in the Center for Health Incentives at the Leonard Davis Institute. Her numerous publications are in important biostatistical and biomedical journals including *The New England Journal of Medicine*, the *Journal of the American Medical Association*, the *Journal of Clinical Oncology* and *Statistics in Medicine*. She is an associate editor for *Statistics in Medicine*. She has served on multiple NIH review panels, external advisory committees, and study sections. She is a permanent member of the FDA's Blood Products Advisory Committee. She presents her work nationally and internationally. She is a member of the American Statistical Association and the International Biometrics Society where she serves on the Education Advisory Committee for the Eastern North American Region (ENAR).

### Nicholas Tsarouhas, M.D.

*Professor of Clinical Pediatrics*

Dr. Tsarouhas excels as a physician, educator and administrator. He is Director of Emergency Transport Services at CHOP and Associate Medical Director of the Emergency Department. Under his leadership, the Transport Service has improved its delivery of care to patients and the quality and quantity of resident teaching. His clinical expertise in transport medicine has been recognized nationally, as he led a workshop, "The Essentials of Building and Perfecting a Pediatric-Neonatal Transport Program" at the 2008 Pediatric Academic Societies Annual Joint Meeting. He is an outstanding teacher of residents and medical students. In recognition of his contributions to teaching, he has received numerous awards including the Blockley-Osler Award for Excellence

in Clinical Teaching in 2009 and election to the Faculty Teaching Honor Roll at CHOP every year from 2001 through 2010. He is associate editor for a new journal, *Pediatric Case Reviews*. He serves on the Executive Committee of the Section on Transport Medicine for the American Academy of Pediatrics.

### Ragini Verma, Ph.D.

*Associate Professor of Radiology*

Dr. Verma is an innovative investigator of diffusion image analysis who uses diverse imaging modalities and protocols and genetic data and clinical evaluations to obtain a comprehensive insight into the disease process and for constructing diagnostic tools. Her current research is focused on diffusion imaging, multi-modality magnetic resonance imaging-based tissue characterization and non-verbal emotion analysis. She has an excellent funding record. She publishes her work in high-profile journals including *Medical Image Analysis*, *IEEE Transactions in Medical Imaging* and *International Journal of Imaging Systems and Technology*. She has served on study sections and special emphasis panels for the NIH and as a reviewer for numerous journals. Dr. Verma presents her research nationally and internationally. She organized tutorials during the past three Medical Imaging Computing and Computer Assisted Intervention conferences, the premier international conference in medical imaging analysis and computing. She is a member of the IEEE and the International Society for Magnetic Resonance in Medicine Computer Assisted Surgical Society and has held organizing roles for scientific meetings of the IEEE.

### Kevin G.M. Volpp, M.D., Ph.D.

*Professor of Medicine*

Dr. Volpp is having a major impact on health care policy and research. His cutting-edge research focuses on the ways in which regulatory and financial policies affect health care outcomes, the effect of work hour regulations on physicians in training

and patient safety, and the effectiveness of financial incentives in changing patient behaviors. In 2008, he became founding director of a new research program at Penn, the Center for Health Incentives at The Leonard Davis Institute, the first such center in the United States. He has been highly successful in securing support for his research. His peer-reviewed publications are in prominent journals including the *Journal of the American Medical Association*, *The New England Journal of Medicine*, and *Health Services Research*. He is an editorial board member of *Medical Care Research and Review* and *Annals of Internal Medicine*. His work has been recognized in *Time Magazine's* Most Significant Advances in Health A – Z (2009). In 2010, his study on smoking cessation won the Society of General Internal Medicine Outstanding Paper of the Year Award and was recognized with a British Medical Journal Group Award for “Translating Research into Practice.” This work led to the implementation of a smoking cessation incentive program for 152,000 employees of General Electric in 2010. That same year, he was the recipient of the Samuel Martin Health Evaluation Sciences Research Award, a Penn Medicine Award of Excellence. He lectures nationally and internationally and is a member of professional and scientific societies. He serves on panels and committees for a number of these societies and has held organizing roles in their meetings.

### Mitchell J. Weiss, M.D., Ph.D.

*Professor of Pediatrics*

Dr. Weiss is an outstanding physician-scientist whose has made seminal contributions to the field of hemoglobin molecular biology. His research focuses on the role of the transcription factor, GATA-1, in erythroid and megakaryocytic development and the role of AHSP (alpha hemoglobin stabilizing protein), a critical protein which he discovered and which stabilizes human alpha globin chains as they interact with other subunits in the formation of normal human hemoglobin. He has an impressive funding history. He has contributed numerous peer-reviewed publications in notable journals including *Blood*, *Molecular and Cellular Biology* and *The Journal*

*of Biological Chemistry*. He is a member of the editorial board of *Blood*, the board of consulting editors of the *Journal of Clinical Investigation*, editor of the Hematology and Oncology Section of the *Current Opinion in Pediatrics* and ad hoc editor for *PLoS Genetics* and *Proceedings of the National Academy of Sciences*. He is a member of the medical advisory boards for the Cooley's Anemia Foundation and the Daniella Maria Aruti Foundation. Dr. Weiss has served as Associate Director and Steering Committee member of the Combined Degree and Physician Scholar Program in the Perelman School of Medicine since 2001. In 2007, he was named Director of the Pediatric Physician-Scientist Development Program at CHOP. He is frequently invited to speak nationally and internationally and has held organizing roles in major scientific meetings including Gordon Research Conferences and the American Society of Hematology annual meetings. He has been recognized with a Career Development Award from the Leukemia and Lymphoma Society and election to the Society for Pediatric Research.

### Lawrence Wells, M.D.

*Associate Professor of Orthopaedic Surgery at The Children's Hospital of Philadelphia*

Dr. Wells is a nationally prominent pediatric orthopaedic surgeon who was recruited to participate in the development of a multidisciplinary pediatric sports medicine program and to help address the increased need for trauma care. His research complements his clinical work and focuses on pediatric sports medicine, trauma, pain control and management of osteonecrosis. He lists publications in leading subspecialty journals including the *Journal of Pediatric Orthopaedics*, *Orthopaedics* and *Journal of Children's Orthopaedics*. He served as co-editor of the Pediatric Orthopaedic Section for the fourth edition of the *American Academy of Orthopaedic Surgeons Essentials of Musculoskeletal Care* textbook. He is a reviewer for multiple journals including *Journal of Bone and Joint Surgery*, *Journal of Pediatric Orthopaedics*, and *Journal of Children's Orthopaedics*. Dr. Wells lectures nationally including providing instructional courses at the

annual meetings of the Pediatric Orthopaedic Society, the Orthopaedic Trauma Association and the American Academy of Orthopaedic Surgeons annual meetings. He chaired and organized the 2010 Pediatric Orthopaedic Society of North America Specialty Day, a major educational effort at the annual meeting of the American Academy of Orthopaedic Surgeons. He is an active member of a number of professional and scientific societies such as the Pediatric Orthopaedic Section of the National Medical Association, the Section on Orthopaedics of the American Academy of Pediatrics and the Pediatric Orthopaedic Society of North America.

### Rebecca G. Wells, M.D.

*Associate Professor of Medicine*

Dr. Wells has made seminal contributions to hepatology. Her innovative basic and translational research focuses on the cellular and molecular mechanisms of liver fibrosis and biliary atresia. Her accomplishments have been recognized with the 2009 Sir William Osler Young Investigator Award by the Interurban Clinical Club, the Excellence in Faculty Research Award from the division of gastroenterology in 2009, election to the American Society of Clinical Investigation in 2008, and the American Liver Foundation, Delaware Valley Chapter Researcher of the Year in 2006. Dr. Wells has been successful in garnering support for her research. Her publications are in premier journals including *Journal of Biological Chemistry*, *Hepatology* and *Molecular Biology of the Cell*. She is associate editor of *Gastroenterology* and a member of the editorial boards of *Clinical and Translational Science* and *Bone and Tissue Regeneration Insights*. She served as a standing member of the NIH Hepatobiliary Pathophysiology Study Section from 2005 through 2009, an unusual position for an assistant professor, and has served as a reviewer for additional NIH study sections, the National Science Foundation, the Veterans Administration and the United States-Israel Binational Science Foundation. Dr. Wells is a member of the American Gastroenterological Association, the American Society for Cell Biology and the American Society for Biochemistry and Molecular

Biology. She has been active in the American Association for the Study of Liver Diseases, serving as Chair of the Liver Fibrosis Special Interest Group, directing a basic research symposium for the annual meeting in 2010 and moderating scientific sessions at annual meetings. She has lectured nationally and internationally including meetings of the Federation of American Societies for Experimental Biology (FASEB) conference on liver biology and the European Association of the Study of the Liver.

### Rachel M. Werner, M.D., Ph.D.

*Associate Professor of Medicine*

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Dr. Werner is a national leader in the field of health services and health policy research. Her research areas include the role of incentives to improve health care, the measurement and role of quality improvement initiatives, racial disparities, and overall health care quality. Her work was among the first to recognize that public reporting of quality information may worsen racial disparities. She has a highly successful funding record. She has contributed peer-reviewed publications in prestigious clinical, health policy and health services journals. She has reviewed grants for the National Institute on Aging, the Robert Wood Johnson Foundation and the Diabetes Research and Training Center at the University of Chicago. She is currently a reviewer for the Health Services Organization and Delivery Study Section of the NIH. Dr. Werner has been recognized for her accomplishments by her colleagues locally and by major national academic organizations. She received the Austrian Award for Junior Faculty Research in the department of medicine (2006); the T. Franklin Williams Award in Geriatrics from the Society of General Internal Medicine/Association of Chiefs of General Internal Medicine/Association of Specialty Professors (2007); the John D. Thompson Prize for Young Investigators from the Association of University Programs in Health Administration (2008); and the AcademyHealth Alice S. Hersh New Investigator Award (2009). In 2010, she

was presented with the Presidential Early Career Award for Scientists and Engineers, the highest honor bestowed by the United States government to outstanding scientists and engineers beginning their independent careers. This award recognizes the recipient's "exceptional potential to shape the future through intellectual and inspired leadership." In 2010, she also received the Outstanding Junior Investigator Award from the Society of General Internal Medicine.

### Alexander C. Wright, Ph.D.

*Research Associate Professor of Radiology*

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Dr. Wright is an innovative collaborative investigator in micro-Magnetic Resonance Imaging (MRI) and micro-CT (Computed Tomography) methods for the imaging of tissue microstructure. His research focuses on the development of customized hardware, data acquisition methodology and image processing techniques to achieve the highest possible image resolution and contrast. He is the Deputy Director of the Laboratory for Structural NMR Imaging, Technical Director of Micro-CT Scanner and Associate Director of Imaging Core, Penn Center for Musculoskeletal Disorders. His research is supported by federal funding. His publications are in notable journals including *Journal of Bone and Mineral Research*, *Journal of Magnetic Resonance* and *Proceedings of the National Academy of Sciences*. He has served as a reviewer for numerous journals including *Magnetic Resonance in Medicine*, *NMR in Biomedicine* and *Medical Physics*. Dr. Wright is a member of the American Physical Society, the Materials Research Society, the American Association of Physicists in Medicine, the International Society for Magnetic Resonance in Medicine and the American Society for Bone and Mineral Research.

### Sharon X. Xie, Ph.D.

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

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Dr. Xie is an accomplished independent and collaborative biostatistician who has had a significant impact on a large number of clinical and translational research studies primarily in the research of neurodegenerative diseases including Alzheimer's Disease, Parkinson's Disease, Frontotemporal Lobar Degeneration, and Amyotrophic Lateral Sclerosis. She has also made significant contributions in her methodological research in the field of measurement errors and biomarkers. She has a substantial research funding portfolio. Her peer-reviewed publications are in leading journals of neurology and aging such as *Annals of Neurology*, *Neuropsychology*, *Journal of Neurology* and in other prestigious journals such as *Proceedings of the National Academy of Sciences* and *Journal of the American Medical Association*. She is senior editor of *Alzheimer's and Dementia* and a reviewer for several additional journals. She was elected as a member of the National Institute of Aging Alzheimer's Disease Center Data Core Steering Committee among all biostatistics and data core leaders from over thirty Alzheimer's Disease Centers in 2007 and served as chair of that committee in 2008 and 2009. She has participated in NIH special emphasis panels and scientific review groups. Dr. Xie received the University of Pennsylvania Graduate Program in Biostatistics Teaching Award in 2005. She has presented her work nationally and internationally including the 6th International Conference on Frontotemporal Dementias in 2008. She is a member of the International Biometric Society and the American Statistical Association.

### Xiaowei (George) Xu, M.D., Ph.D.

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

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Dr. Xu is a nationally prominent pathologist, dermatopathologist, and oncologic pathologist whose research focuses on the role of hypoxia during melanoma progression and metastasis

and neural crest derived cells in the skin. He has funding from several federal sources. His publications are in top tier journals including *Proceedings of the National Academy of Sciences*, *American Journal of Pathology*, *Cancer Research* and *Journal of Clinical Oncology*. He is a member of the editorial boards of the *International Journal of Clinical and Experimental Pathology*, *Current Signal Transduction Therapy*, *Human Pathology*, *Pathology and Laboratory Medicine International*, and *Dermatology Research and Practice*. He has served as a reviewer for several NIH and VA study sections. Dr. Xu directs a half-day course annually at the meeting of the United States and Canadian Academy of Pathology. He lectures nationally and internationally. He is a member of the International Society of Stem Cell Research, the American Cancer Society, the American Society of Investigative Pathology and is a founding member of the Melanoma Research Society.

### Xiaolu Yang, Ph.D.

*Professor of Cancer Biology*

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Dr. Yang is an innovative investigator whose significant contributions are advancing the cell death field. His research focuses on caspases and their regulatory proteins, the role of p53 family members in regulating cellular metabolism and cell death, and the molecular function of promyelocytic leukemia protein nuclear bodies (PML-NBs). He has an excellent funding record. He has contributed peer-reviewed publications in high impact journals including *Nature Cell Biology*, *Journal of Clinical Investigation* and *Molecular Cell*. He is an ad hoc reviewer for many journals including *Proceedings of the National Academy of Sciences*, *Molecular and Cellular Biology*, *Journal of Biological Chemistry*, and *Cancer Research*. He is a member of the NIH Cancer and Molecular Pathobiology Study Section and a reviewer for Cancer Research UK and the National Natural Science Foundation of China. Dr. Yang presents his work nationally and internationally. He is a member of the American Association for the Advancement of Science, the Federation of American Societies for Experimental Biology and the American Gastroenterology Association.

### Lin Zhang, M.D.

*Research Associate Professor  
of Obstetrics and Gynecology*

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Dr. Zhang is a productive investigator in ovarian cancer research, particularly in cancer genomics. His basic and translational research focuses on the genetic and genomic bases of initiation and progression of ovarian cancer, the role and function of microRNAs in both breast and ovarian cancer and the development of novel microRNA-based therapeutic strategies. He has a successful record of grant funding. His publications are in prominent journals such as *The New England Journal of Medicine*, *Proceedings of the National Academy of Sciences*, *Cancer Research*, *Clinical Cancer Research* and *The Journal of Biological Chemistry*. His research has been recognized with several awards including a translational research award from the Mary Kay Ash Charitable Foundation in 2007, the Liz Tilberis Scholar award from the Ovarian Cancer Research Fund in 2007 and 2010, the Exceptional Project Award from the Breast Cancer Alliance in 2008 and, in 2010, he received the Idea Award from the Department of Defense, Breast Cancer Research Program. He has reviewed grants for a number of national and international foundations such as the Austrian Science Fund, Cancer Research, United Kingdom, The Melanoma Research Foundation and The Mary Kay Ash Charitable Foundation. Dr. Zhang is a member of the American Association of Cancer Research, American Society of Investigative Pathology, American Society of Human Genetics and the American Society of Gene Therapy.

### Paul J.L. Zhang, M.D.

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

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Dr. Zhang excels as a diagnostic pathologist, educator, researcher and administrator. He is recognized for his expertise in the applications of immunohistochemical markers for the diagnosis and prognosis of difficult to diagnose tumors, particularly soft tissue sarcomas. He uses immunohistochemistry and in-situ

hybridization to investigate molecular marker expression and fluorescence in situ hybridization (FISH) for chromosomal abnormalities in cancer. He serves as Director of the Immunohistochemistry Laboratory at HUP. He has numerous publications in leading journals in his field. He is a member of the editorial board of *Applied Immunohistochemistry and Molecular Morphology* and editor-in-chief of *Pathology and Laboratory Medicine International*, an online journal that he founded and that is designed to forge a connection between pathologists in the industrial world and those in developing countries. In recognition of his teaching excellence, Dr. Zhang was given the James E. Wheeler Award for Excellence in Anatomic Pathology Resident Training in 2007. He is a member of a number of professional and scientific societies and a founding member of the International Society of Bone and Tissue Pathology. He is the Chair of the Academic Committee for the Chinese American Pathologist Association.

### X. Long Zheng, M.D., Ph.D.

*Associate Professor of  
Pathology and Laboratory Medicine*

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Dr. Zheng is a leader in the field of hemostasis and thrombosis whose innovative research focuses on the molecular biology and biochemistry of the plasma metalloprotease ADATMS-13 and its role in the pathogenesis of thrombotic thrombocytopenic purpura (TTP). He is the "go-to" physician for TTP and has modernized the testing performed in the Coagulation Laboratory. He is the Director of the Hematology Laboratory at CHOP. In addition to other funding, he is principal investigator of a grant from the American Heart Association, a highly competitive Established Investigator Award. His publications are in prominent journals such as *Blood*, *Journal of Thrombosis and Hemostasis*, *Proceedings of the National Academy of Sciences* and *Transfusion*. He has been a member of several NIH study sections and is a regular member of the review committee for the National Blood Foundation. Dr. Zheng presents his research at national and international conferences including the International Society of Thrombosis and Hemostasis, International Congress on Hemophilia, von Willebrand Disease and

TTP and the Federation of American Societies for Experimental Biology (FASEB) Research Meetings. He is a member of the American Society of Biochemistry and Molecular Biology, the American Society of Hematology, the American Society of Cell Biology and the International Society of Thrombosis and Hemostasis.

### Timothy C. Zhu, Ph.D.

*Professor of Radiation Oncology at the  
Hospital of the University of Pennsylvania*

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Dr. Zhu is widely known for his expertise in photodynamic therapy dosimetry (PDT) and PDT treatment delivery. His independent and collaborative research focuses on PDT, dose calculation, in-vivo radiation dosimetry and headscatter. He developed the PennMU system, which is used for emergency radiation dosing. He has a successful record of funding for his research. In recognition of his contributions to medical physics, he was named a Fellow of the American Association of Physicists in Medicine (AAPM). He is associate editor of *BMC Medical Physics*, guest associate editor of the *Journal of Medical Physics* and a reviewer for several additional journals. He has served on NIH special emphasis panels and has reviewed grants for the National Institute for Health Research of the United Kingdom, The National Sciences and Engineering Research Council of Canada and the Israel Science Foundation. Dr. Zhu is an active member of task groups of the AAPM. He is a member of The International Society of Optical Engineering, the International Photodynamic Association, the Optical Society of America and the American Society of Therapeutic Radiation Oncology.

### Athena F. Zuppa, M.D., M.S.C.E.

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

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Dr. Zuppa is an accomplished clinician, teacher and investigator who is having a significant impact on the emerging field of pediatric clinical pharmacology. Her research interests complement

her clinical interests and focus on the impact of critical illness on drug disposition. She has been successful in securing funding for her research. In addition to her peer-reviewed publications, she has contributed a number of chapters in the leading textbooks for pediatric critical care medicine and pharmacology. She is a voting member of the Advisory Committee for the Division of Antiviral Products and was a voting member of the Anesthesia and Life Support Medications Subcommittee from 2007 through 2010 of the Food and Drug Administration. She is a member of the Child Health Oversight Committee of the NIH. Dr. Zuppa has served as the Associate Director for Research of the Pediatric Critical Care Medicine fellowship since 2003. She is a member of a number of professional and scientific societies such as the Society of Critical Care Medicine, the American College of Clinical Pharmacology and the American Society of Clinical Pharmacology and Therapeutics.

