

2016

PROMOTED FACULTY

RAYMOND AND RUTH PERELMAN
SCHOOL OF MEDICINE
AT THE UNIVERSITY OF PENNSYLVANIA

Reception

THURSDAY, OCTOBER 6, 2016
5:30 p.m. – 7:00 p.m.

HENRY A. JORDAN, M'62
MEDICAL EDUCATION CENTER



Program

PROMOTED FACULTY RECEPTION
5:30 P.M. – 7:00 P.M.

WELCOME REMARKS

J. LARRY JAMESON, MD, PhD

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

ADDRESS TO FACULTY

DAVID J. MARGOLIS, MD, PhD

Chair, Committee on Appointments and Promotions

CLOSING REMARKS

J. LARRY JAMESON, MD, PhD



Penn Medicine

NEWLY PROMOTED FACULTY 2016

RAYMOND AND RUTH PERELMAN SCHOOL OF MEDICINE
AT THE UNIVERSITY OF PENNSYLVANIA

Faten N. Aberra, MD, MSCE

Associate Professor of Medicine—Clinician-Educator

Dr. Aberra is an expert in inflammatory bowel disease (IBD). Her research complements her clinical activities and focuses on the interface of IBD with infectious diseases and the management of IBD including the role of novel biological agents in therapy. She developed and leads a joint Penn-CHOP program to ensure a seamless transition for adolescent patients to adult care. She is a member of the editorial board of *Digestive Diseases and Sciences*. She is the founding chair of the Women in GI Committee which was organized to foster academic and professional development of faculty and fellows. She is a member of the American Gastroenterological Association, the American College of Gastroenterology, and past co-chair of the Crohn's and Colitis Foundation of America Patient Education Committee.

Tomas S. Aleman, MD

Associate Professor of Ophthalmology—Clinician-Educator

Dr. Aleman excels as an academic ophthalmologist and is widely known for his expertise in retina disease, particularly hereditary retinal degenerations. He uses state-of-the-art psychophysical, electrophysiological, and imaging studies to focus on the development and use of electrophysiological methods and advanced imaging techniques to characterize retinal degenerations in animal models and in patients to assess the responsiveness of these disorders to emerging treatments. He is known for making significant contributions to high impact clinical trials. His publications are in leading journals such as *Investigative Ophthalmology and Visual Science*, *Archives of Ophthalmology*, and *Proceedings of the National Academy of Sciences*. He is a member of the Association for Research in Vision and Ophthalmology, the Cuban Society of Ophthalmology, and the American Academy of Ophthalmology.

Richard Aplenc, MD, PhD, MSCE

Professor of Pediatrics—Clinician-Educator

Dr. Aplenc is advancing the field of pediatric hematology-oncology. He studies the molecular epidemiology of pediatric leukemias, with an emphasis on the role of host polymorphisms in anticancer drug toxicities. He is acknowledged for his numerous important roles in the Children's Oncology Group including Vice Chair of the Acute Myeloid Strategy Group and principal investigator and study chair on multiple studies. He successfully merged the Pediatric Health Information Systems database with the Children's Oncology Group clinical trials information which has facilitated the ability to use large cohorts of patients with acute myeloid leukemia, acute lymphoblastic leukemia, and neuroblastoma to answer research questions with direct relevance to the clinical care of patients. He publishes in high impact journals including *Cancer*, *The New England Journal of Medicine*, *Blood*, and the *Journal of Clinical Oncology*.

Kristy B. Arbogast, PhD

Research Professor of Pediatrics

Dr. Arbogast is an international leader in the field of pediatric 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. She is also advancing research relating to pediatric sports concussion. In 2014, she received an Honorary Doctorate in Engineering from the prestigious Chalmers Institute of Technology in Goteberg, Sweden and the A.J. Mirkin Service Award from the Association for the Advancement of Automotive Medicine. Her publications are numerous and noteworthy. She is a Fellow in the Association for the Advancement of Automotive Medicine and the American Institute for Medical and Biological Engineering. She is associate editor of *Traffic Injury Prevention*.

Lily A. Arya, MD

Professor of Obstetrics and Gynecology—Clinician-Educator

Dr. Arya makes significant contributions to the field of urogynecology, particularly in the area of pelvic floor disorders. Her research focuses on the development and validation of new instruments for a patient-centered approach for the treatment of urinary incontinence and pelvic organ prolapse. She has garnered funding from federal and foundation sources. She has contributed publications in leading journals including *Obstetrics & Gynecology*, *The Journal of Urology*, and *Neurourology and Urodynamics*. She is a reviewer for the NIH Pelvic Floor Disorders Review. Dr. Arya is an outstanding teacher and mentor of medical students, residents, and fellows. She is the Program Director of the fellowship training program in female pelvic medicine and reconstructive surgery, considered one of the best fellowships in the country. She serves as a board member and a member of several of the committees of the Society of Gynecologic Surgeons.

Joshua H. Atkins, MD, PhD

Associate Professor of Anesthesiology and Critical Care—Clinician-Educator

Dr. Atkins is a nationally and internationally prominent anesthesiologist, particularly in the fields of otorhinologic anesthesia and neurosurgical anesthesia. His innovative research focuses on respiratory physiology, respiratory monitoring, and complex airway management. He was named Director of Otorhinolaryngology: Head and Neck Anesthesia at HUP in 2012. He makes substantial educational contributions. He is an oral examiner for the American Board of Anesthesiology. He is a member of the Steering Committee for Airway Management/Head and Neck Anesthesia of the Anesthesia Toolbox, an innovative online national resident training initiative. He is Co-Director of the Penn-China Anesthesia Partnership, a program that mentors visiting clinicians and researchers, develops and delivers didactic programming in China for leading institutions and organizations, and serves to identify and develop opportunities for Penn students, trainees, and faculty to engage with peer institutions in China. He is a founding member of the Society for Head and Neck Anesthesia.

Hamdee Y. Attallah, MD

Associate Professor of Clinical Medicine

Dr. Attallah is a productive endocrinologist who is recognized for his outstanding clinical expertise in diabetes mellitus, obesity, hyperparathyroidism, neuroendocrine tumors and male reproductive endocrinology. As section chief at the VA Medical Center, he implemented a number of innovations in care including establishing a state-of-the art Thyroid Biopsy Clinic, recruiting a nurse practitioner to provide intensive, comprehensive diabetes management, and leading a team to establish a systems-based program for ensuring effective education and delivery of medication and testing supplies to hospitalized diabetes patients. He is a dedicated and engaging educator of medical students, residents, and fellows. He serves as VA site director for the endocrinology fellowship training program at Penn. In 2013, he received the Special Recognition Award: Medicine Consult Management at the VA Medical Center and, in 2015, the Edward Rose Teaching Award in recognition and appreciation for outstanding teaching and mentoring of fellows in the division of endocrinology.

Sita Awasthi, PhD

Research Associate Professor of Medicine

Dr. Awasthi is recognized internationally for her independent and collaborative investigations in immunity and immune-pathology of herpes simplex virus (HSV) infection. Her research focuses on the development of an effective vaccine against HSV and includes investigating HSV immune evasion proteins. Her scholarship is published in leading journals including the *Journal of Virology* and *The Journal of Infectious Diseases*. She is a member of the editorial boards of the *Journal of Antivirals and Antiretrovirals* and the *Journal of Immunoassay and Immunochemistry*. She is an excellent mentor of undergraduate and graduate students, postdoctoral fellows, medical students, fellows, and visiting faculty in the laboratory. She is invited to lecture nationally and internationally. She is a member of the International Society of Vaccines, the American Society of Microbiology, and the Association of Women in Science. She has held organizing roles for meetings of the World Congress on Virology.

Scarlet L. Bellamy, ScD

Professor of Biostatistics in Biostatistics and Epidemiology—Clinician-Educator

Dr. Bellamy is a prominent academic biostatistician who is recognized nationally for her contributions to statistical methodological and collaborative research. Her methodological research addresses the design and analysis of cluster/group-randomized trials, with a particular focus on trials investigating health disparities. She provides substantial statistical collaborations for investigations in HIV/AIDS, cancer, lung transplantation, and behavioral economics. She has a successful history of securing funding for her research. She is an elected fellow of the American Statistical Association. Dr. Bellamy is an outstanding educator and mentor in the biostatistics and clinical epidemiology programs. She has held a number of positions within professional societies including elected member of the Council of Sections and Program Chair of the Section on Statistics in Epidemiology for the American Statistical Association and President of the Eastern North American Region (ENAR) of the International Biometric Society.

Katherine B. Bevans, PhD

Research Associate Professor of Pediatrics

Dr. Bevans is a leader in the field of pediatric health outcomes research. She uses innovative methods to develop pediatric patient reported outcome measures for use in clinical and comparative effectiveness research and clinical care and health care performance evaluations. She has been instrumental in the development of pediatric measures through the Patient Reported Outcomes Measurement Information Systems (PROMIS), a large NIH program with research centers across the United States. She was named the Associate Director for the Center for Applied Clinical Research at CHOP in 2014. She has published in leading journals including *Academic Pediatrics*, the *Journal of Pediatric Psychology*, and *Maternal and Child Health Journal*. She co-chairs the Special Interest Group in Child Quality of Life for the International Society of Quality of Life Research and the PROMIS working group in the protection of human subjects in patient-centered outcomes research.

Gil Binenbaum, MD, MSCE

Associate Professor of Ophthalmology—Clinician-Educator

Dr. Binenbaum is a nationally recognized expert in pediatric ophthalmology. His research focuses on biomarkers and clinical modeling of retinopathy of prematurity and ophthalmic effects of abusive head trauma. He has been successful in securing funding for his research. In 2012, he was inducted as a member of the Ray E. Helfer Society, an honorary society of physicians seeking to provide leadership to enhance the prevention, diagnosis, and treatment of child abuse and neglect. He is an editorial board member and eye section editor of *PEMsoft*. He is an outstanding educator and mentor of medical students, residents, and fellows in clinical, didactic, and research settings. He is invited to lecture nationally and internationally. He serves as Vice-Chair of the Research Committee for the American Association for Pediatric Ophthalmology and Strabismus.

Michael B. Blank, PhD*Professor of Psychology in Psychiatry*

Dr. Blank is an accomplished mental health services researcher, with a particular focus on HIV and mental illness. His interdisciplinary investigations include community based participatory methods and bio-behavioral outcome markers and focus on HIV risk and serious mental illness, related prevention efforts, and HIV/AIDS treatment adherence among patients with serious mental illness. His peer-reviewed publications are in leading journals such as the *American Journal of Public Health*, the *Journal of Community Psychology*, *Psychiatric Services*, and *AIDS and Behavior*. He is associate editor of the *Journal of Community Psychology*. He co-founded the NIH-funded Center for AIDS Research, Social and Behavioral Sciences Research Network and has continued to serve as a member of the executive committee. He teaches in the Perelman School of Medicine, the School of Social Policy and Practice, the Graduate School of Education, the Annenberg School for Communication, the Nursing School, and the School of Arts and Sciences.

Martin R. Bohnenkamp, MD*Associate Professor of Clinical Medicine*

Dr. Bohnenkamp makes important contributions as a clinician, educator, and administrator. He is known as a thoughtful diagnostician with an excellent fund of knowledge in internal medicine and as a great patient advocate. He is an excellent educator and mentor of medical students, residents, and fellows. He developed and directs a novel Department of Medicine Morbidity and Mortality conference series and participates on the Internal Medicine Residency Clinical Coaching Committee. In his position as the Unit-Based Physician Clinical Leadership Physician Lead for the Penn Presbyterian Medical Center Inpatient Medicine Floor, he leads quality and safety initiatives. He was appointed Associate Patient Safety Officer at PPMC in 2015, serves as chair of the Patient Safety Committee, and is a member of the CPUP Ambulatory Patient Safety Committee.

Janis K. Burkhardt, PhD*Professor of Pathology and Laboratory Medicine*

Dr. Burkhardt is an internationally recognized innovative investigator in the field of cellular immunology. Her interdisciplinary research focuses on understanding how actin cytoskeletal dynamics control complex immune cell behaviors. She publishes her work in prestigious journals including *The Journal of Clinical Investigation*, *The Journal of Cell Biology*, and *Immunity*. She is review editor of *Frontiers in T Cell Biology*. She is a member of the NIH Cell and Molecular Immunology – B Study Section and a reviewer for multiple national and international funding agencies. Dr. Burkhardt is Director of the Penn–PORT program, an NIH-sponsored program that provides an opportunity for postdoctoral trainees to develop their teaching skills and spend time teaching in partner minority-serving institutions. She is a member of the American Society of Cell Biology and serves on their Committee on the Status of Women Career Advisory Board.

Theresa M. Busch, PhD*Research Professor of Radiation Oncology*

Dr. Busch is making significant contributions to translational research in photodynamic therapy (PDT) for the treatment of solid malignancies. She investigates the tumor microenvironment, the effect of fluence rate and total fluence on oxygen consumption, and the development of rationale clinical light delivery regimens. She has a successful record of funding for her research. She has contributed peer-reviewed publications in leading journals including *Cancer Research*, *Clinical Cancer Research* and *Photochemistry and Photobiology*. She is a member of the Board of Directors of the Pan-American Photodynamic Association, a member of the Executive Council of the American Society for Photobiology, and a member of a number of other professional and scientific societies such as The International Society of Optics and Photonics, the International Photodynamic Association, and the American Association for Cancer Research.

Robin E. Canada, MD*Associate Professor of Clinical Medicine*

Dr. Canada is an accomplished and committed clinician who is recognized for her work with underserved populations. She established a cooperative care model between the University of Pennsylvania and the Philadelphia District Health Centers. She is the central clinician in the Complex Care Project, linking medically complicated, undocumented, and uninsurable individuals to specialty care at Penn. In 2014, she was named Associate Program Director for the primary care residency program and leads the development of community service and underserved care activities for the program. She is an innovative educator who created and coordinates an Indian Health Service Elective for the Internal Medicine Residents. In 2010, she and her team received a Patient Quality and Safety Award on Opioid Management in Primary Care. She is a member of Physicians for Social Responsibility and the Society of General Internal Medicine and a Fellow in the American College of Physicians.

Anne Rentoumis Cappola, MD, ScM*Professor of Medicine*

Dr. Cappola is an international leader in the endocrinology of aging. Her innovative research focuses on defining normal thyroid functions in older persons and the role of hormones in the development and treatment of the frailty syndrome. She has contributed publications in prestigious journals in her field, such as *The Journal of Clinical Endocrinology and Metabolism* and *Clinical Endocrinology*. In 2013, she received the Van Meter Award from the American Thyroid Association and was elected to the American Society of Clinical Investigation. In 2014, she was named a Fellow of The Gerontological Society of America. She is the Director of the Commercialization and Entrepreneurship Program for the Institute for Translational Medicine and Therapeutics (ITMAT), Assistant Director of ITMAT, Director of the Clinical and Translational Research Center, and Director of Clinical Research for the department of medicine. She is associate editor of the *Journal of the American Medical Association*.

Alice Chen-Plotkin, MD*Associate Professor of Neurology*

Dr. Chen-Plotkin is a nationally prominent physician-scientist who is making original, innovative, and impactful contributions to neurodegenerative research. The goal of her translational research is to advance the understanding of mechanisms underlying neurodegenerative disease in order to intervene in such disease processes as Parkinson's disease and frontotemporal dementia. Her leadership in the field of biomarkers for neurodegenerative diseases is evident from her influential roles in the NIH-National Institutes of Neurological Disorders and Stroke Parkinson's Disease Biomarker Program. She was selected as the Chair of the National Steering Committee for the NIH-NINDS Parkinson's Disease Biomarker Program. She has an impressive record of funding. She publishes in premier journals such as the *Journal of Neuroscience* and *JAMA Neurology*. Dr. Chen-Plotkin makes outstanding contributions to the teaching programs in the department of neurology.

Julio A. Chirinos, MD, PhD*Associate Professor of Medicine — Clinician-Educator*

Dr. Chirinos is a highly accomplished cardiologist with particular expertise in non-invasive cardiology and cardiac imaging. He uses novel non-invasive methodologies to investigate the role of ventricular-arterial interactions in cardiovascular health and disease and cardiovascular abnormalities associated with obstructive sleep apnea. He publishes his research in high impact general and specialty journals including *Circulation*, *the Journal of the American Heart Association*, *The New England Journal of Medicine* and *The Journal of the American Medical Association*. He serves on the editorial boards of the *World Journal of Hypertension*, *Journal of Geriatric Cardiology*, and *Pulse*. He established and coordinated the cardiac magnetic resonance training for fellows at the VA Medical Center. He serves on the Scientific Advisory Board of the International Academy of Cardiology, the Radiology and Imaging Basic Science Committee of the American Heart Association, and the Cardiovascular Committee of the American College of Radiology Imaging Network.

Michael Chorny, PhD*Research Associate Professor of Pediatrics*

Dr. Chorny is an innovative independent and collaborative investigator in the field of nanomedicine based therapeutics. His research focuses on the development and evaluation of nanocarriers for targeted delivery of drugs, gene vectors, and cells for cardiovascular disease application and cancer therapy. In 2011, he received the Certificate of Research Excellence from the American Heart Association in recognition of outstanding dedication and achievement in heart disease and stroke research. In 2013, he was named Associate Director of the Center for Targeted Therapeutics and Translational Nanomedicine of the Institute of Translational Medicine and Therapeutics. His publications are in leading journals in his field. He is a member of the Controlled Release Society, the American Society of Gene and Cell Therapy, and the American Heart Association.

Melpo Christofidou-Solomidou, PhD*Research Professor of Medicine*

Dr. Christofidou-Solomidou is an outstanding independent and collaborative investigator in the field of acute and chronic lung disease. In her role as Director of the Pulmonary Morphology Core Laboratory, she collaborates with a number of investigators within and external to Penn in establishing multiple models of lung injury and sophisticated analyses of these models using biochemical, histological, molecular, and electron microscopic techniques. Her independent translational research program focuses on the use of natural products in the treatment of oxidative lung disease. She has been successful in securing funding for her research. She is a member of the editorial board of *Pulmonary and Respiratory Medicine* and an NIH study section. In 2015, she chaired the Molecular and Clinical Oncology Session of the 20th World Congress on Advances in Oncology and the 18th International Symposium on Molecular Medicine.

John Chuo, MD, MSBI*Associate Professor of Clinical Pediatrics*

Dr. Chuo is a distinguished leader in neonatology, quality, informatics, and education. He serves as the Quality Officer for the division of neonatology and has built a quality improvement framework based on frontline engagement, effective communication, and actionable data management. In 2014, he was named Medical Director of Telemedicine at CHOP. He is a highly respected teacher and mentor of medical students, nursing students, graduate students, residents, fellows, and other health professionals and trainees. He developed and directs a quality improvement internship in neonatology. He chairs the Clinical Decision Support Taskforce and is a member of the Quality, Cost and Safety Committee of the Healthcare Information and Managements Systems Society and a member of the American Telemedicine Association.

Yale E. Cohen, PhD*Professor of Otorhinolaryngology: Head and Neck Surgery*

Dr. Cohen is an innovative leader in the fields of auditory perception and systems neurophysiology of audition in non-human primates. His work has implications for understanding primate communication and clinical implications for disorders of hearing including deafness, sound-induced and age-related hearing loss, and tinnitus. He has a history of continued grant support. He has contributed peer-reviewed publications in prestigious journals including the *Journal of Neurophysiology*, *Neuron*, and *Journal of Neuroscience*. He is the associate editor of *Frontiers in Integrative Neuroscience*. He is a Standing Member of the NIH Mechanisms of Sensory, Perceptual, and Cognitive Processes (SPC) study section. He presents his research nationally and internationally. He has served as the Chair of the University of Pennsylvania's Institutional Animal Care and Use Committee (IACUC) since 2014.

Joy L. Collins, MD*Associate Professor of Clinical Surgery*

Dr. Collins is a nationally recognized pediatric surgeon in bariatric surgery, trauma surgery, and the surgical management of intestinal failure. She serves as Surgical Director of the joint CHOP-Penn Adolescent Bariatric Program and Surgical Director of the Intestinal Rehabilitation Program. She is an outstanding surgical educator in the clinical setting, in teaching conferences, and simulation sessions for medical students, residents, and fellows. She is co-chair of the Public Education Committee and a member of the Pediatric Surgical Committee of the American Society for Metabolic and Bariatric Surgery.

Noah M. Cook, MD, MTR*Associate Professor of Clinical Pediatrics*

Dr. Cook is a highly respected and compassionate clinician in neonatology who is recognized for his expertise in neonatal neurology. He is Director of the Neonatal Follow-up Program at Pennsylvania Hospital and oversees the neurodevelopmental evaluation of infants discharged from the Neonatal Intensive Care Unit who are considered to be at risk for ongoing neurodevelopmental compromise due to premature birth or perinatal neurologic injury. He has been successful in expanding the program's caregiving team and physical space, implementing electronic medical records, and partnering with other programs and services. He chairs a Penn Institutional Review Board. He excels as an educator of medical students, residents, fellows, and physician assistant students.

Lawrence A. Copelovitch, MD, MA*Associate Professor of Clinical Pediatrics*

Dr. Copelovitch is a prominent pediatric nephrologist who has key administrative roles as Inpatient Medical Director for Nephrology and Director of the Dialysis Unit at CHOP. He is an integral member of the multidisciplinary team that provides comprehensive surgical, medical, and nutritional care for children with kidney stone disease. He is an outstanding educator and mentor of medical students, residents, and fellows. He leads the Pediatric Nephrology Fellowship Lecture Series. He is a member of the American Society of Pediatric Nephrology and a reviewer for numerous journals including *Pediatrics* and *Pediatric Nephrology*.

Nabila Dahodwala, MD, MS*Associate Professor of Neurology—Clinician-Educator*

Dr. Dahodwala is a nationally renowned specialist in the field of movement disorders. Her research focuses on the identification, understanding, and translation of research to reduce racial, gender, and socioeconomic disparities in the care of patients with Parkinson's disease. Her funding is derived from federal and foundation sources. She has contributed peer-reviewed publications in prestigious journals including *Neurology*, *Movement Disorders*, and *Lancet Neurology*. She was named director of the movement disorders fellowship in 2013. She is a member of the Movement Disorders Society, the American Academy of Neurology, and the American Neurological Association. In 2010, she was the only assistant professor invited to participate on the NINDS Advisory Panel on Health Disparities and Workforce Diversity to shape policy and funding priorities for Parkinson's disease.

Edward James Delikatny, PhD*Research Professor of Radiology*

Dr. Delikatny is an independent and collaborative researcher who is an international leader in the field of magnetic resonance spectroscopy and molecular imaging of cancer. He has made significant contributions to the understanding of lipid metabolism in cancer and in developing novel molecular imaging probes to image pathways in lipid metabolism. He has a continuous record of grant funding. In 2010, he was named Director of the Optical Bioluminescence Sub-Core of the Small Animal Imaging Facility (SAIF) and in 2014, he was named Director of the entire SAIF, both of which have flourished under his leadership and are valuable assets to the Penn community. He is a standing member of several NIH study sections. In 2014, he received the prestigious Negendank Lecture at the International Society of Magnetic Resonance in Medicine (ISMRM). In 2009, he received the ISMRM Outstanding Teacher Award.

Angela M. DeMichele, MD, MSCE*Alan and Jill Miller Professor in Breast Cancer Excellence*

Dr. DeMichele is an outstanding oncologist who is recognized nationally and internationally for her clinical and translational research in the field of breast cancer. Her investigations focus on developing biomarkers, surveillance strategies, and new therapeutic approaches to prevent and treat recurrent metastatic breast cancer and on survivorship research. She has been instrumental in the design and conduct of the multi-institutional, multi-disciplinary "I-SPY" trial, an adaptive clinical study in which new therapeutic agents are tested in the neo-adjuvant breast cancer setting. She has a consistent record of funding for her research. Her influential publications are in premier journals including *The Journal of the American Medical Association*, *the Journal of Clinical Oncology*, *Lancet Oncology*, and *Clinical Cancer Research*. She was named the inaugural Alan and Jill Miller Associate Professor in Breast Cancer Excellence in 2013.

Kristoffel R. Dumon, MD*Associate Professor of Surgery—Clinician-Educator*

Dr. Dumon is a leader in the field of robotic bariatric surgery and surgical education. His research focuses on improvements in minimally invasive and bariatric surgery including the introduction of robotic techniques in the bariatric program. He is also recognized for his participation in establishing the bariatric program as a Center of Excellence by the Centers for Medicare and Medicaid Services. He has been instrumental in the development of surgical education through simulation. He is the Director of the Penn Simulation Center and Director of Research for the Simulation Center. He is a member of the Committee on Curriculum Development of the American College of Surgeons Education Institute and a member of the Society of American Gastrointestinal Endoscopic Surgeons and the American Society of Metabolic and Bariatric Surgeons.

Michal A. Elovitz, MD*Professor of Obstetrics and Gynecology*

Dr. Elovitz is an internationally prominent academic perinatologist. Her influential basic and translational studies have focused on elucidating the mechanisms leading to spontaneous preterm birth and adverse fetal/neonatal outcomes. She has been highly successful in garnering support for her research. She has an impressive record of grant funding and published scholarship. She developed and directs the Prematurity Prevention Program, an innovative clinical program for women with a history of preterm birth. She is a standing member of the Perinatology and Neonatology Study Section of the NIH, a standing member of the Gene Discovery and Translational Research Advisory Committee of the March of Dimes, and a member of the Preterm Research Priority Setting Group. She has directed the Maternal Fetal Medicine Fellowship Program since 2006, and under her leadership the program was reaccredited twice for the maximum number of years by the American Board of Obstetrics and Gynecology.

Marni J. Falk, MD*Associate Professor of Pediatrics—Clinician-Educator*

Dr. Falk has achieved international prominence in the fields of human genetics and primary mitochondrial disease. Her research focuses on understanding the genetic and metabolic basis of mitochondrial disease to improve diagnosis and treatment. She has been instrumental in establishing an effective international consortium collecting clinical and genomic data on patients with rare mitochondrial disorders to identify new disease genes. She also organized and leads the CHOP/Penn Mitochondria Research Affinity Group bringing together more than 230 multidisciplinary investigators. She has contributed peer-reviewed publications in prestigious journals. She was selected to participate in an Institute of Medicine ad hoc committee organized at the request of the Food and Drug Administration Center for Biologics Evaluation and Research. She is the Chair of the Scientific and Medical Advisory Board and an elected member of the Board of Trustees of the United Mitochondrial Disease Foundation.

Scott A. Falk, MD*Associate Professor of Clinical Anesthesiology and Critical Care*

Dr. Falk excels as a clinician, administrator, and educator. He provides outstanding clinical care with a particular focus on cardiothoracic critical care. As Medical Director of the Post-Anesthesia Care Unit, he has made significant improvements in initiatives in delivery of care and quality improvement. He served as the Director of Performance, Improvement, Quality and Safety of the department of anesthesiology and critical care from 2010 through 2014 and was responsible for providing strategic direction for improvements in care and safety. He was the recipient of the HUP Operational Award and the HUP Quality and Patient Safety Award in 2012. He has an impressive teaching record.

Michael D. Feldman, MD, PhD*Professor of Pathology and Laboratory Medicine—Clinician-Educator*

Dr. Feldman is a distinguished thought leader and innovator in the field of pathology informatics. His groundbreaking research has had major impact on the application of informatics to enhance computer technologies in pathologies and in digital pathology. He is highly collaborative and has a successful record of grant funding. He is the Director of Pathology Informatics, Assistant Dean for Information Technology, and Director of the Cancer Center Core Tissue Bank. His publications are in leading journals in his field. In 2009, he received the President's Award from the American Society for Clinical Pathology (ASCP). He is an outstanding teacher at the Perelman School of Medicine, nationally, and internationally, particularly in the areas of computational biology, informatics, and image analysis. He has received the Peter C. Nowell Teaching Award, the Kevin Salhany Award for Excellence in Clinical Teaching, and the James Wheeler Teaching Award. He presents his work nationally and internationally.

Gary M. Freedman, MD*Professor of Radiation Oncology—Clinician-Educator*

Dr. Freedman is an innovative leader in the field of breast radiation. He has been an active investigator in clinical trials which have led to improvements in the care of patients diagnosed with breast cancer, including his seminal research on shortening the treatment course for breast cancer patients through hypofractionation. In 2013, he was named to the inaugural class of The Academy of Master Clinicians, the highest clinical honor for a Penn Medicine physician. He is an editorial board member of *The Breast Journal*. Dr. Freedman is an outstanding teacher of residents and medical students. He received the Educator of the Year Award from the Association of Residents in Radiation Oncology in 2012 and 2014. He is a member of the American Board of Radiology and in 2012, he received their Volunteer Service Award.

Heather Morein French, MD, MEd*Associate Professor of Clinical Pediatrics*

Dr. French is an outstanding neonatologist who is a national expert in neonatal simulation. She is the assistant director for the Neonatal Education Simulation Training Program at CHOP. She developed an intensive boot camp for fellows which has expanded to include fellows from over 12 sites in the Mid-Atlantic region. In her role as associate director of the neonatal-perinatal fellowship program, she has updated the didactic curriculum and developed several new educational seminar courses. She was named co-chair of the American Pediatric Association Simulation-Based Medical Education Special Interest Group. In recognition of her teaching, she was elected to the CHOP Honor Roll in 2013 and 2014. She is a member of the Society for Simulation in Healthcare and the International Pediatric Simulation Society.

Joel M. Gelfand, MD, MSCE*Professor of Dermatology*

Dr. Gelfand is an internationally recognized physician-scientist in the investigation of the epidemiology and natural history of psoriasis. His influential research focuses on outcomes and comorbidities in psoriasis. He has a highly successful history of securing funding for his research. He established the Clinical Studies Unit in his department and serves as Medical Director. He was named Director of the Psoriasis and Phototherapy Treatment Center in 2015. His publications are in leading journals including the *Journal of Investigative Dermatology*, *JAMA Dermatology*, and *the British Medical Journal*. In 2013, he was elected to the American Society for Clinical Investigation and the American Dermatological Society. Dr. Gelfand received the Excellence in Teaching Epidemiology Award from the department of biostatistics and epidemiology in 2015. He was elected President of the American Society for Dermatopidemiology in 2015.

Jeffrey S. Gerdes, MD, MBA*Professor of Pediatrics—Clinician-Educator*

Dr. Gerdes is nationally and internationally recognized for his achievements as a clinician, educator, investigator, and administrator. His research has been focused on neonatal infectious disease and pulmonology, most recently on the role of non-invasive ventilation to reduce morbidity associated with neonatal lung disease. He has substantial administrative leadership roles including Associate Chief for External Affairs in the division of neonatology, Chief Medical Officer for Network Development, and Associate Chair for Finance and Network Development. He has been instrumental in developing and maintaining the group of hospitals comprising the CHOP Neonatal Network, recognized as one of the most successful neonatal health networks in the country. He excels as a teacher and mentor of medical students, residents, fellows, and junior faculty.

Eric N. Goren, MD*Associate Professor of Clinical Medicine*

Dr. Goren is recognized widely for delivering high quality, compassionate, and patient-centered care to some of the most vulnerable citizens of Philadelphia. He was instrumental in developing an important partnership between PSOM, UPHS, and the Philadelphia District Health Centers. He has served as co-clinic director and faculty advisor of the United Community Clinic (UCC) in West Philadelphia. Dr. Goren collaborates with faculty members from the Schools of Nursing and Social Policy and Practice to provide guidance to students across Penn who work in collaborative inter-professional teams to provide in-depth and multi-disciplinary care to these underserved patients. He is an innovative and inspiring teacher of trainees at all levels and in different settings. In 2012, he received the Provost's Award for teaching excellence at Penn. He has also received the Penn Medical Student Government Teaching Award, the Penn Pearls Teaching Award, the Maurice Attie Teaching Award, and the Donald B. Martin Teaching Service Award. In 2014, he received the Penn's One Health Award in recognition of his exemplary contributions to expanding interdisciplinary education and improving health care.

Gregory R. Grant, PhD*Research Associate Professor*

Dr. Grant is an innovative independent and collaborative investigator whose research involves the computational and statistical aspects of functional genomics data. His collaborative work is focused on high throughput sequencing data analysis of biological data. In 2014, he was named Director of the bioinformatics research group in the Institute for Translational Medicine and Therapeutics. He has been a valued contributor to productive projects focusing on cancer, retinitis pigmentosa, cardiovascular side-effects of nonsteroidal anti-inflammatory drugs, and developmental biology. His methodological work addresses normalization, differential expression, and data deployment steps. His scholarship is published in such publications as *Nature Methods*, *Genome Biology*, and *PLoS One*. He co-authored a widely respected textbook, *Statistical Methods in Bioinformatics: An Introduction*.

Ekaterina L. Grishchuk, PhD*Associate Professor of Physiology*

Dr. Grishchuk is a world leader in the mechanisms of chromosome segregation during cell division. She uses state-of-the-art technologies in biophysics, computational modeling, and cell biology to study the interactions between isolated kinetochore proteins and dynamic microtubules in vitro under conditions that recapitulate aspects of normal chromosome-microtubule attachment in cells. She is highly collaborative, providing a unique skill set to high impact projects. She lists peer-reviewed publications in high profile journals including *Nature Cell Biology*, *Proceedings of the National Academy of Sciences*, and *Biophysical Journal*. She is also recognized as the driving force behind publications on which she is co-corresponding author. In 2014, she received the Michael S. Brown New Investigator Research Award, a Penn Medicine Award of Excellence. She has been an ad hoc grant reviewer for the National Science Foundation and for research foundations in Germany and the UK.

Harshad G. Gurnaney, MBBS, MPH*Associate Professor of Anesthesiology and Critical Care—Clinician-Educator*

Dr. Gurnaney is a nationally prominent expert in pediatric regional anesthesia and simulation based education in pediatric anesthesia. His research focuses on regional anesthesia and other adjunctive techniques for post-operative analgesia in children, and has influenced the delivery of care. He is an outstanding teacher of residents and fellows. He is the director of the American Society of Anesthesiologists (ASA) endorsed simulation center at CHOP and co-director of the Comprehensive Pediatric Regional Anesthesia workshop. He has been the course director for the American Board of Anesthesiology (ABA) approved simulation course for ABA Maintenance of Certification in Anesthesiology Program at CHOP. He has been a faculty member for several continuing medical education meetings. He is a member of national and international societies for anesthesia and has had an organizing role in numerous scientific meetings.

Thomas J. Guzzo, MD, MPH*Associate Professor of Urology in Surgery—Clinician-Educator*

Dr. Guzzo is a leader in the field of urologic oncology who is an expert in the management of urologic malignancies including endoscopic, laparoscopic, robotic, and open surgery for the treatment of prostate, bladder, and kidney tumors. He has established a multidisciplinary tumor board and a multidisciplinary clinic for improved patient care and integration among urologic oncology care providers. His published scholarship is in premier journals in his field including *Urology*, *Cancer* and *Annals of Surgical Oncology*. Dr. Guzzo is an outstanding educator and mentor of medical students, residents, and fellows in the didactic and clinical settings. He serves as Associate Director of the urology residency program. In 2013, he received the Paul Rodin Leberman Teaching Award from the urology chief residents.

Matthew A. Harris, MD*Associate Professor of Pediatrics—Clinician-Educator*

Dr. Harris excels as a clinician, investigator, and educator. He is an accomplished pediatric cardiologist with expertise in cardiac magnetic resonance imaging for the evaluation of congenital heart disease. His research focuses on the evaluation of patients with Tetralogy of Fallot and the imaging of congenital coronary anomalies. In 2014, he was named the Associate Director of Cardiac MRI. He is a reviewer for a number of journals including *Pediatric Emergency Care* and *Circulation Interventions*. He is a highly respected educator and mentor of medical students, residents, and fellows. He is a member of the American Heart Association and the Society for Cardiovascular Magnetic Resonance. From 2010 through 2015, he served on the Congenital and Pediatric Heart Disease Committee and the Pediatric Myocarditis Committee for the Society for Cardiovascular Magnetic Resonance.

Todd E.H. Hecht, MD*Professor of Clinical Medicine*

Dr. Hecht is a highly accomplished and productive clinician who is an expert in the care of hospitalized patients. He directs the Anticoagulation Management Program at HUP and the Anticoagulation Management Center, overseeing the improvements in quality and safety of anticoagulation care. He is involved in numerous multidisciplinary committees including the Pharmacy and Therapeutics Committee, the Clinical Effectiveness and Quality Improvement Committee, and the Drug Use and Effects Committee. He is an outstanding educator of medical students and residents. His teaching was recognized with the Donald B. Martin Award in Teaching Excellence from the department of medicine in 2012. He is a charter member of the Society of Hospital Medicine.

Michael D. Hogarty, MD*Professor of Pediatrics—Clinician-Educator*

Dr. Hogarty is a prominent leader in the field of pediatric oncology. His research focuses on defining the cancer pathways that support neuroblastoma development and in developing novel therapeutics to target the disease. He is highly respected for his leadership positions in the Children's Oncology Group, including Chair of the Neuroblastoma Biology Program. He has contributed peer-reviewed publications in leading journals such as *Nature Genetics*, *Cancer Cell*, and *Clinical Cancer Research*. He is a grant reviewer for St. Baldrick's Foundation, Alex's Lemonade Stand Foundation, and the US Department of Defense. He is an excellent educator and mentor of undergraduate and graduate students, medical students, residents, fellows, and postdoctoral fellows. He was elected to the CHOP Faculty Honor Roll in recognition of his teaching each year from 2003 through 2015. He lectures nationally and internationally.

B. David Horn, MD*Associate Professor of Clinical Orthopaedic Surgery*

Dr. Horn is a highly sought after pediatric orthopaedic surgeon who focuses on orthopaedic trauma, neuromuscular disease, deformity, and congenital conditions with a special interest in the lower extremity. He is a dedicated and enthusiastic teacher and mentor of residents, fellows, medical students, advanced practice nurses, physician assistants, and other learners. He has contributed to multiple textbooks including serving as co-editor of a comprehensive textbook, *Current Surgical Management of Fractures and Complications in Children*. He is the chair of the American Academy of Orthopaedic Surgeons Pediatric Evaluation Committee and was responsible for the 2013 and 2016 pediatric orthopaedic self-assessment examination. He lectures nationally and internationally.

Michelle F. Hu, MD*Associate Professor of Clinical Medicine*

Dr. Hu is an accomplished clinician and educator who provides exceptional and highly collaborative, comprehensive, and integrated primary care. She is recognized for her emphasis on health promotion and disease prevention and for her commitment to systems based practice and quality improvement. She is an excellent educator and mentor of residents including supervision and individualized teaching and evaluation. She is an associate member of the American Society of Internal Medicine.

Mathew D. Hutchinson, MD*Associate Professor of Medicine—Clinician-Educator*

Dr. Hutchinson excels as an academic cardiac electrophysiologist whose independent and collaborative research focuses on the development of new techniques to treat atrial and ventricular arrhythmias, particularly using imaging to characterize arrhythmia substrate and improve procedural outcomes. In his role as Director of clinical research for the electrophysiology section, he organizes clinical trials and hypothesis-driven clinical research. He has contributed peer-reviewed publications in leading journals including *Heart Rhythm*, *the Journal of Cardiovascular Electrophysiology* and *the Journal of the American College of Cardiology*. Dr. Hutchinson is a dedicated and effective educator and mentor of medical students, residents, and fellows. In 2011, he received the Mark E. Josephson Faculty Teaching Award from the cardiovascular division. He is a Fellow of the American College of Cardiology and the Heart Rhythm Society and a member of the American Heart Association.

Rebecca N. Ichord, MD*Professor of Neurology—Clinician-Educator*

Dr. Ichord is recognized nationally and internationally for her expertise in pediatric neurology. Her research focuses on acute brain injury, risk factors for stroke recurrence, association of seizures with stroke, outcome prediction following cardiac arrest, and evaluation of the Berlin heart. In 2013, she was named section chief of the Intensive Care Unit of the Neurology Consultation Service. She has contributed peer-reviewed publications in high impact journals such as *The New England Journal of Medicine* and *Stroke*. She is a member of the NIH Stroke Progress Review Group and the Grant Oversight Advisory Committee of the Bugher Foundation with the American Heart Association. She was a founding member of the International Pediatric Stroke Study Group and currently serves as Vice Chair of the Executive Committee.

Saurabh Jha, MBBS*Associate Professor of Radiology—Clinician-Educator*

Dr. Jha is making important contributions to understanding the impact of health care policy on the practice of radiology. His influential research focuses on the use and value of imaging, the value of information, the trade-offs encountered in efforts to reduce uncertainty, and how evidence and guidelines predispose to overdiagnosis at the margins. He is the editor of the Bulletin of the Pennsylvania Radiological Society and serves on the editorial boards of *Diagnostic Imaging*, *Medscape Radiology*, and *the Journal of the American College of Radiology*. In 2015, he was guest editor of a special issue of *Academic Radiology* focusing on the impact of radiology on overdiagnosis. Dr. Jha received the Wallace T. Miller Sr. Award for excellence in teaching in 2014. He serves on committees for the Radiological Society of North America, the American College of Radiology, the American Roentgen Ray Society, and the Association of University Radiologists.

Stephen J. Kadlec, PhD*Research Associate Professor of Radiology*

Dr. Kadlec is an accomplished independent and collaborative investigator whose research involves the development and analysis of hyperpolarized gas imaging with magnetic resonance imaging (MRI), with a particular focus on lung imaging. He has contributed peer-reviewed research publications in leading journals including *Radiology*, *NMR in Biomedicine*, and *Academic Radiology*. He is a standing member of an NIH study section. He is a reviewer for a number of journals such as the *Journal of Applied Physiology* and *Magnetic Resonance in Medicine*. Dr. Kadlec is a highly effective mentor of undergraduate and graduate students and postdoctoral trainees. He is a member of the International Society for Magnetic Resonance in Medicine, the American Physical Society, the American Nuclear Society, and the American Thoracic Society.

Taku Kambayashi, MD, PhD*Associate Professor of Pathology & Laboratory Medicine*

Dr. Kambayashi is an outstanding physician-scientist who focuses on the way in which cell signaling affects the development, education, function, and homeostasis of regulatory T cells and natural killer cells through immunoreceptors. In 2012, he was elected to membership in the American Society of Clinical Investigation and received the David B. Pall Prize for Innovation Research from the American Association of Blood Banks. He serves on the NIH Allergy, Immunology and Transplantation Research Committee Study Section. In 2012, he received the Kevin Salhany Award for Excellence in Clinical Teaching and in 2015, he received The Simon Flexner Award for Graduate School and Postdoctoral Teaching and Mentoring. He is a member of the American Association of Immunologists, the American Association of Blood Banks and the American Society of Hematology.

Julia N. Kharlip, MD*Associate Professor of Clinical Medicine*

Dr. Kharlip is a prominent endocrinologist who is known for her collaborative and innovative care of adrenal and pituitary patients, particularly Cushing's disease patients, as well as those with endocrine complications of malignancies. She co-founded and serves as Associate Medical Director of the Penn Pituitary Center, a multidisciplinary program for the diagnosis and treatment of neuroendocrine diseases. She organized and directs the Penn Endocrine Dynamic Testing Unit. She is an inspiring teacher and mentor of fellows, residents, and medical students. In 2013, she received the Edward Rose Teaching Award given by the endocrinology fellows to an outstanding educator. She is a member of the Digital Content Committee of The Pituitary Society and the Adrenal Facts and Figures Working Group of The Endocrine Society.

Caroline S. Kim, MD*Associate Professor of Clinical Medicine*

Dr. Kim is an outstanding clinical endocrinologist who is an expert in managing thyroid disease, particularly thyroid nodules and thyroid cancer. She completed Certification in Neck Ultrasound from the American Association of Clinical Endocrinologists, demonstrating her expertise in thyroid ultrasound and fine needle aspiration in 2011. She is an equally outstanding educator of medical students, residents and fellows. She received the Edward Rose Teaching Award for Outstanding Teaching and Mentoring of Fellows in 2014. She has served as a preceptor for a course at The Endocrine Society workshops for a number of years. She is a member of the editorial board of *Frontiers in Thyroid Endocrinology*.

Jennifer R. Kogan, MD*Professor of Medicine—Clinician-Educator*

Dr. Kogan is a national leader in medical education. Her research focuses on assessment of trainees, impact of duty hours on medical student education, and medical student career choice. In 2015, she was named Assistant Dean for Faculty Professional Development. She is also a highly regarded clinician. She lists publications in prestigious medical education journals. She is an outstanding educator. She created and directs a course in *Frontiers in Medicine* and leads the PSOM Medical Education Journal Club. She has been named to important leadership positions in national education professional organizations. She is a member of a task force on Communications for the National Board of Medical Examiners, a member of the Steering Committee of the AAMC's Medical Education Scholarship, Research and Education section, and a member of the faculty for the Accreditation Council of Graduate Medical Education's national feedback development conferences on workplace-based assessment and feedback.

Stephen J. Kovach, III, MD*Associate Professor of Surgery—Clinician-Educator*

Dr. Kovach is an outstanding surgeon who is making important contributions to academic plastic surgery. His research focuses on complex abdominal wall reconstruction and extremity reconstruction. In 2014, he was named Director of the Penn Center for Wound Healing and Reconstruction. He publishes in leading journals in his field including *Plastic and Reconstructive Surgery*, *the Journal of Plastic, Reconstructive and Aesthetic Surgery* and *the Journal of Reconstructive Microsurgery*. In 2011, he received the Don LaRossa Annual Teaching Award. He is Subcommittee Co-Chair of the Plastic Surgery Education Network for the American Society of Plastic Surgery and a member of the Board of Directors of the Robert Ivy Society. He has held organizing roles in scientific meetings of the American Society of Reconstructive Microsurgery, the Northeastern Society of Plastic Surgeons, the World Society of Reconstructive Microsurgery, and the Ivy Society.

Jeremy D. Kukafka, MD*Associate Professor of Clinical Anesthesiology and Critical Care*

Dr. Kukafka is an accomplished cardiothoracic anesthesiologist who is widely recognized for his clinical acumen. He is a highly respected and committed educator of medical students, residents and fellows. As Clerkship Director in Anesthesiology, his responsibilities include curriculum development, organization of clinical sites, integration of feedback for continuous improvement, and recruitment of faculty and residents for educational activities. He developed and leads an elective for residents in transesophageal echocardiography. He is a member of the American Society of Anesthesiologists and the Society of Cardiovascular Anesthesiologists.

Daniel D. Langleben, MD*Professor of Psychiatry—Clinician-Educator*

Dr. Langleben is recognized internationally for his translational research in psychiatry and neuroscience. His multidisciplinary investigations focus on the use of neuroimaging techniques to investigate deception, prediction treatment outcome in opioid dependence, and the effects of public health communications. He has a successful record of research funding. He has contributed peer-reviewed publications in leading journals including *The American Journal of Psychiatry*, *The Journal of Neuroscience*, *Proceedings of the National Academy of Sciences*, and *Neuroimage*. He is a member of the editorial board of *Current Psychiatry Reviews*. He is a highly regarded educator and mentor of undergraduate students, medical students, residents, fellows, and postdoctoral fellows.

Gwo-Chin Lee, MD

Associate Professor of Orthopaedic Surgery—Clinician-Educator

Dr. Lee is an accomplished academic orthopaedic surgeon with expertise in arthroplasty and revision arthroplasty. His research focuses on outcomes in hip and knee arthroplasty, revision replacements, deep prosthetic infections, fractures and tissue engineering, and developmental biology. He recently completed two extensive studies resulting in two new prediction tools aimed at identifying total hip and knee replacement patients who are at-risk of developing serious complications after injury. In 2013, he was elected to membership in the Knee Society, the preeminent international organization for the management of knee disorders. In 2014, he received the American Association of Hip and Knee Surgeons James A. Rand Young Investigator Award. He was named Fellowship Director for the Adult Reconstruction Fellowship in 2011.

Julia I-Ju Leu, PhD

Research Associate Professor of Genetics

Dr. Leu is an accomplished independent and collaborative investigator whose research incorporates a range of methods and strategies to focus on the role of the p53 tumor suppressor protein and its genetic variants. Her collaborative research is considered to have fundamentally changed the understanding of critical aspects of tumor biology. She has been successful in securing funding for her research. A number of her peer-reviewed publications have been highly cited. She is a reviewer for *Cell Reports* and *Cancer Research*. She has reviewed research proposals for the Swiss National Science Foundation and the Israel Science Foundation. She is a member of the American Association for Cancer Research. She provides technical training to graduate students and postdoctoral research fellows.

Michael Z. Levy, PhD

Associate Professor of Epidemiology in Biostatistics and Epidemiology

Dr. Levy is a world leader in infectious disease epidemiology. He uses epidemiology and mathematical modeling to focus on understanding and controlling vector-borne zoonotic diseases. He is an expert in Chagas disease. Recently, he has expanded his research program to include the emergence and vectorial capacity of bed bugs. His research has been published in premier specialized journals, such as *PLoS: Neglected Tropical Diseases*, *Environmental Microbiology*, and *Molecular Ecology*. In 2013, he was named Director of the University of Pennsylvania/Universidad Peruana Cayetano Heredia Zoonotic Disease Research Center in Arequipa, Peru. The center currently employs 34 full-time staff including biologists, epidemiologists, veterinarians, health communicators, insecticide applicators, nurses, and data managers who work collaboratively with the Peruvian Ministry of Health. The center is an invaluable educational and research resource for Penn and academic institutions in Peru. In 2014, he was named Senior Medical Advisor to the National Seasonal Influenza Program and the VA's "Infection: Don't Pass It On" campaign in the Clinical Public Health division of the Veteran's Administration Central Office.

Richard J. Lin, MD

Associate Professor of Clinical Anesthesiology and Critical Care

Dr. Lin makes important contributions as a clinician, educator and administrator. He provides outstanding care in the clinical management and maintenance of continuity of care of chronically critically ill and technology-dependent infants and children. He is the Medical Director of the Progressive Care Unit at CHOP and Medical Director of Respiratory Care Services. He has been actively involved in numerous information systems initiatives at CHOP including serving as physician clinical champion for the implementation of EPIC. He is a highly regarded educator and mentor of medical students, residents, fellows and other learners. He is a reviewer for *Pediatrics*, *Respiratory Care*, and *Pediatric Emergency Care*.

Darren R. Linkin, MD, MSCE

Associate Professor of Medicine—Clinician-Educator

Dr. Linkin is a leader in the assessment of the impact of multi-drug-resistant organisms (MDROs) and their control. He makes substantial contributions in his administrative roles at the VAMC and at HUP in the important area of preparedness for outbreaks of infectious diseases and potential emerging threats. He has a history of funding for his research, primarily from federal sources. He lists peer-reviewed publications in specialty infectious disease/epidemiology journals such as *Infection Control & Hospital Epidemiology* and *Clinical Infectious Diseases*. He is a reviewer for *Infection Control & Hospital Epidemiology* and the *Annals of Internal Medicine*. Dr. Linkin is a dedicated teacher and mentor of medical students and trainees. In 2012, he received the Outstanding Faculty Teaching Award for the infectious disease division.

Janet Liroy, MD

Professor of Clinical Pediatrics

Dr. Liroy is a distinguished leader in neonatology, education and community outreach. She is the go-to-physician for referrals relating to neonatal airway disorders and craniofacial birth defects. She directs the Neonatal Outreach Program at CHOP, a program which is instrumental in maintaining constant communication with all referring neonatologists. She is also the medical director of the Neonatal Airway Program and a member of the Neonatal Craniofacial Program. She excels as an educator and mentor of medical students, residents, fellows, and other learners. She received the CHOP Joanne Decker Memorial Work/Family Mentoring Award and the CHOP Master Clinician Award. She recently edited *Disorders of the Neonatal Airway: Fundamentals for Practice*, a comprehensive text and major contribution to the field. For the American Academy of Pediatrics, she is a member of the Perinatal Section and representative to the Board of Medical Advisors for the American Association of Respiratory Care.

Judith A. Long, MD*Sol Katz Professor of Medicine*

Dr. Long excels as a clinician, investigator, educator, and administrator. She is a prominent health services researcher who focuses on health disparities in medical care, an area of immense social significance. In 2015, she was named chief of the division of internal medicine and Sol Katz Associate Professor of Medicine. She has contributed peer-reviewed publications in leading journals including *Annals of Internal Medicine*, *The American Journal of Public Health*, and the *Journal of General Internal Medicine*. Dr. Long is co-director of the Robert Wood Foundation Clinical Scholars Program and core faculty of the Philadelphia VA Center for Health Promotion and Research. She served as director of the Master of Science in Health Policy Research from 2009 through 2015. She has provided extensive service to the Society for General Internal Medicine including numerous organizing roles in SGIM scientific meetings.

Scott Manaker, MD, PhD*Professor of Medicine—Clinician-Educator*

Dr. Manaker is an outstanding physician, administrator, and educator who is a leader in the economics of health care delivery. He is a nationally recognized expert in billing, compliance, and regulatory practices that impact the delivery of healthcare. He has made important contributions in the areas of the complex regulatory, clinical, and risk management challenges faced by healthcare providers, academic medical centers, and other healthcare delivery systems. In 2011, he received the Distinguished Service Award from *CHEST*, in recognition of his contributions to the field of pulmonary critical care medicine through his work on coding and reimbursement. In 2013, he received the Alfred Soffer Award for Editorial Excellence. He is section editor of *UpToDate in Pulmonary and Critical Care Medicine* and associate editor of *CHEST*. Dr. Manaker excels as a teacher and mentor of medical students, residents, fellows, and junior faculty. He is frequently invited to deliver seminars, grand rounds, and workshops throughout the country.

Edna Mancilla, MD*Associate Professor of Clinical Pediatrics*

Dr. Mancilla is an accomplished pediatric endocrinologist who is an expert in the area of bone metabolism and growth. She has a critical role in the care of the patients in the Center for Bone Health and the Multidisciplinary Single Ventricle Survivorship Clinic at CHOP. She is an excellent teacher of medical students, residents, and fellows in multiple venues. She developed an innovative bone curriculum for the fellows. She is a member of a number of professional and scientific societies including The Endocrine Society, the Pediatric Endocrine Society, and the American Society of Bone and Mineral Research.

David S. Mandell, ScD*Professor of Mental Health Services Research in Psychiatry*

Dr. Mandell is a world leader in children's health services research on autism spectrum disorders. He investigates effective interventions at the individual, provider, and systems levels to reduce the age at which children with autism enter into effective treatment to improve outcomes. He has received many awards for his contributions, including the Association for Behavioral and Cognitive Therapies Autism Spectrum and Developmental Disorders Special Interest Group Transformative Contribution Award in 2014 and the International Society for Autism Research Appreciation Award in 2015. He is a member of the United States Department of Health and Human Services, Interagency Coordinating Committee and serves as co-chair of the Services Research and Policy Subcommittee. He served as Vice-President of the International Society for Autism Research from 2013 through 2015 and is a member of scientific advisory boards of the Autism Science Foundation, the Carolina Institute for Developmental Disabilities, and the John Hopkins University Bloomberg School of Public Health Wendy Klag Center on Autism and Developmental Disabilities.

Kathryn Maschhoff, MD, PhD*Associate Professor of Clinical Pediatrics*

Dr. Maschhoff is an outstanding neonatologist with a particular focus on infants with congenital heart disease, other congenital malformations requiring surgical intervention, and former premature infants with chronic lung disease and pulmonary hypertension. She participated in establishing the Chronic Lung Disease Program at CHOP, a multidisciplinary program with a goal of improving clinical care and follow-up for infants with chronic lung disease. She is a highly regarded teacher and mentor of medical students, residents and fellows. She directs the CHOP Neonatology Clinical Consensus Lecture Series. She is a member of the Clinical and Scientific Advisory Committee and the Executive Board of the Philadelphia Pediatric Medical Device Consortium.

Giacomina Massaro-Giordano, MD*Professor of Clinical Ophthalmology*

Dr. Massaro-Giordano is a prominent ophthalmologist with particular expertise in dry eye and ocular surface diseases. She is at the forefront of promoting newer treatments for dry eyes. She co-founded and serves as Co-Director of the Penn Dry Eye and Ocular Surface Center, the only dry eye center in the tri-state area. She is a respected educator of medical students and residents. She lectures nationally and internationally including courses for the American Academy of Ophthalmology. She is a member of numerous professional and scientific societies including the Association for Research in Vision and Ophthalmology, Women in Ophthalmology, and the American Society of Cataract and Refractive Surgery.

Robert L. Mauck, PhD

Mary Black Ralston Professor for Education and Research in Orthopaedic Surgery

Dr. Mauck is a nationally and internationally renowned bioengineer whose innovative independent and collaborative research focuses on musculoskeletal tissue engineering, with a particular interest in restoring articular cartilage, the knee meniscus, and the intervertebral disc. He is the Director of the McKay Laboratory for Orthopaedic Surgery Research, Director of the Program in Musculoskeletal Regenerative Medicine in the Institute for Regenerative Medicine, and the Scientific Director of the Translational Musculoskeletal Research Center at the VA Medical Center. He has an impressive record of funding. His numerous publications are in leading journals including the *Journal of Orthopaedic Research*, *Journal of Biomechanical Engineering*, and *Proceedings of the National Academy of Sciences*. In 2014, he received the Igawa Masuda Award from the Biomedical Engineering Society Cell and Molecular Bioengineering Special Interest Group and was elected to the College of Fellows of the American Institute for Medical and Biological Engineering.

John D. McGreevey, III, MD

Associate Professor of Clinical Medicine

Dr. McGreevey is an eminent hospitalist who is widely recognized as a leader in hospital informatics development and implementation. In his roles as Associate Chief Medical Information Officer and physician advisor for clinical informatics within the Penn Health System, he leads projects for expansion, integration and optimization of the electronic health record and provides clinical guidance for computerized decision support. He is an excellent educator and mentor of medical students, graduate students, residents and fellows. He is a member of the Society of Hospital Medicine, the Public Policy Committee of the American Medical Informatics Association, and the Partnership for Health IT Patient Safety of the ECRI Institute.

Samir Mehta, MD

Associate Professor of Orthopaedic Surgery—Clinician-Educator

Dr. Mehta is a highly accomplished leader in academic orthopaedic surgery. His impactful investigations include the management of fractures, infection prevention, and education research. He has contributed peer-reviewed publications in premier journals in his field including *The Journal of Bone and Joint Surgery*, *the Journal of Orthopaedic Research*, and *the Journal of Orthopaedic Trauma*. He makes significant contributions as a teacher and mentor within Penn and nationally. He was named Associate Residency Director in 2012. He is a faculty member of the American Academy of Orthopaedic Surgeons Annual Course for Orthopaedic Educators. He chairs the Education Committee of the American Orthopaedic Association. In 2010 and 2013, he received the Howard Rosen Teacher of the Year Award from the AO North American Trauma Association and in 2010 and 2012, he received the Jesse T. Nicholson Award in the department of orthopaedic surgery.

Christopher J. Miller, MD

Associate Professor of Dermatology—Clinician-Educator

Dr. Miller is recognized nationally and internationally for his expertise in Mohs and procedural dermatology, particularly as an expert practitioner of Mohs micrographic surgery for the treatment of malignant melanoma. His research focuses primarily on clinical methodology, practice improvements, and outcomes for dermatologic surgery. He is the Director of dermatologic surgery, the Director of the Mohs Laboratory, and the Director of the fellowship in procedural dermatology. He received a Penn Medicine Patient Advocacy Award in 2012. Dr. Miller makes substantial contributions to education inside and outside of the Perelman School of Medicine. In 2009, he received the Burnett L. Johnson Attending Teaching Award from the residents. He started the ACGME-approved procedural dermatology fellowship in 2010. He is a member of the Journal of the American Academy of Dermatology Continuing Medical Education Council.

Victoria A. Miller, PhD

Associate Professor of Pediatrics—Clinician-Educator

Dr. Miller has achieved national prominence in pediatric health related decision making. Her research focuses on illness management and informed consent and assent in pediatric research. She has developed two measurement tools to assess the decision making process. The Decision Making Involvement Scale (DMIS) measures children's involvement in decisions about chronic illness management and the Decision Making Control Instrument (DCIS) assesses the voluntariness of parents making decisions for their seriously ill children. She has consistently received funding for her research. Her publications are in leading journals in her field. In 2014, she received the Marjorie A. Bowman New Investigator Research Award, a Penn Medicine Award of Excellence. She is a member of the American Psychological Association, the Society for Research in Child Development, and the Society for Adolescent Health and Medicine.

Nandita Mitra, PhD

Professor of Biostatistics in Biostatistics and Epidemiology—Clinician-Educator

Dr. Mitra is a highly accomplished academic biostatistician who has made substantial contributions to numerous genetic association studies and health services research in cancer, genetics, radiation oncology, and general internal medicine. Her methodological research includes cost-effectiveness research, causal inference in observational studies, and statistical genetics. Her peer-reviewed publications are in high impact journals including *Cancer Research*, *The Journal of the American Medical Association*, *Lancet*, *Annals of Applied Statistics*, and *Statistics in Medicine*. Dr. Mitra is an outstanding educator and mentor in the biostatistics and epidemiology graduate programs and is associate director of the graduate program in biostatistics and Director of Statistics in the Masters in Health Policy program. She was recently awarded the inaugural Master of Science in Health Policy Research Excellence in Teaching Award. She is a member of The International Biometric Society, the International Indian Statistical Association, and the American Statistical Association.

Yael P. Mosse, MD*Associate Professor of Pediatrics*

Dr. Mosse is an outstanding physician-scientist in the field of pediatric oncology whose research focuses on neuroblastoma genomics and developmental therapeutics. Her investigations have been instrumental in the discovery of activating anaplastic lymphoma kinase (ALK) mutation in familial neuroblastoma. Following this discovery, her ongoing studies have focused on the specific therapeutic targeting of ALK. She has a successful record of grant funding. She is recognized for her leadership in national clinical trials through the Children's Oncology Group (COG) and has served as Vice Chair of the COG Pediatric Phase I Consortium. Her publications are in high impact journals including *Science Translational Medicine*, *Nature*, *The Lancet Oncology*, and *Cancer Cell*. She was elected to the American Society for Clinical Investigation in 2013. She is on the editorial board of *Cancer Research Breaking Advances* and is a reviewer for a number of additional journals.

John Isaac Murray, PhD*Associate Professor of Genetics*

Dr. Murray is an accomplished and productive investigator whose research focuses on defining the developmental mechanisms that control expression patterns and robust cell fate specification at single cell resolution during embryogenesis. He develops and applies novel tools combining sophisticated single cell imaging and gene expression analysis with rigorous computational approaches to investigate the regulation of gene expression during development in a powerful model organism, *C. elegans*, with implications for extending these observations into mammalian and human systems. His peer-reviewed research publications are in prestigious journals. Dr. Murray makes outstanding teaching and mentoring contributions to graduate education. He participated in the generation of a new course in experimental genomics, and this course was among the first courses to be adapted for Coursera. He is a member of the Genetics Society of America and the Society for Developmental Biology. He served as session chair for the 19th International *C. elegans* Meeting.

Dan Negoianu, MD*Associate Professor of Clinical Medicine*

Dr. Negoianu excels as a clinician, educator, and administrator. He is an insightful physician with an outstanding fund of knowledge in nephrology. As Director of Critical Care Nephrology, he serves as a liaison between nephrology and the critical care services at HUP. He is Medical Director of Inpatient Dialysis at HUP and serves as the Co-Director of the Delaware Valley Home Dialysis Training Program, an intercity educational program for renal fellows in the Philadelphia area. He is a dedicated and enthusiastic educator and mentor of medical students, residents, and fellows. He has received the Second Year Renal Module Teaching Award twice, the J. Russell Elkinton Faculty Teaching Award of the Renal, Electrolyte and Hypertension Section, and the Penn Pearls Teaching Award. He is invited to lecture nationally.

Nina Ross O'Connor, MD*Associate Professor of Clinical Medicine*

Dr. O'Connor is a leader in palliative care. She is an exceptionally compassionate clinician in interactions with patients and families clarifying goals of care, navigating complex end-of-life situations, and providing expert pain and symptom management. She serves as the Director of Palliative Care at HUP and under her guidance, the program has thrived. She oversees the provider group for Penn Wissahickon Hospice, working to enhance collaboration between palliative care and hospice. She is currently working on launching a new palliative care program at Penn Presbyterian Medical Center. She is an outstanding educator of medical students, nursing students, residents and fellows, and other learners. As Program Director of the Hospice and Palliative Medicine Fellowship, she has established an innovative curriculum and increased the number of fellows. She is a member of the American Academy of Hospital and Palliative Medicine and the National Hospice and Palliative Care Organization.

Michele E. Paessler, DO*Associate Professor of Clinical Pathology and Laboratory Medicine*

Dr. Paessler is a highly accomplished and productive pathologist who provides expert hematopathologic and immunologic clinical testing and interpretation. She has developed a particular expertise in bone marrow failure disorders. She established and leads the Clinical Immunology Laboratory at CHOP and under her leadership, procedures have been revised and improved, test methods have been updated, and new tests have been developed. In 2014, she was appointed Chief of the newly formed Division of Hematopathology, Immunology and Hematology at CHOP. She is the hematopathology fellowship director. She excels as an educator of medical students and residents and fellows in other departments. She is frequently invited to present at national meetings of professional societies including the American Society of Clinical Pathology and the United States and Canadian Academy of Pathology.

Jose L. Pascual-Lopez, MD, PhD*Associate Professor of Surgery—Clinician-Educator*

Dr. Pascual-Lopez is a nationally prominent surgical intensivist who is having an impact on the fields of general surgery, trauma and critical care. He has made significant contributions to basic and clinical research in the areas of traumatic brain injury and shock, critical care education and simulation, and patient safety in surgery. He has served as Patient Safety Officer since 2012 and Co-Medical Director of the surgical intensive care unit at HUP since 2015. In 2015, he received the Presidential Citation for Extraordinary Commitment to the Society of Critical Care Medicine in recognition of his contributions in advancing knowledge and education in his field. In 2014, Dr. Pascual-Lopez received the Intensive Care Fellows Award for Excellence in Clinical Care Teaching. He chairs the Graduate Education Committee of the Society of Critical Care Medicine.

David M. Raizen, MD, PhD*Associate Professor of Neurology*

Dr. Raizen is an influential leader in sleep research and *C. elegans* neurobiology. His pioneering research uses the nematode *C. elegans* as a model to study sleep and sleep disease and the impact of disrupted sleep on metabolic, neurodegenerative, and cardiovascular disease. His research has been published in high profile journals including *Nature*, *Nature Communications*, *Journal of Neuroscience* and *Current Biology*. A study published in *Nature* in 2008 is considered seminal. Dr. Raizen has been the course director of Neurobiology of Sleep and Circadian Rhythms since 2010. He presents his research at national and international venues. He is a member of the American Academy of Neurology, the Genetics Society of America, the Society for Neuroscience, and the Sleep Research Society.

Sarah Jane Ratcliffe, PhD*Professor of Biostatistics in Biostatistics and Epidemiology—Clinician-Educator*

Dr. Ratcliffe is a highly productive collaborative researcher and statistical methodologist. She makes important contributions to investigations across several disciplines including reproductive and women's health, HIV/AIDS, and critical care medicine. Her methodological research focuses on the development of new techniques in functional data analysis and joint modeling of longitudinal and time to event data. Her numerous and noteworthy publications are in leading journals in her field. Dr. Ratcliffe is a highly valued educator and mentor in the graduate and doctoral programs in the department of biostatistics and epidemiology and the public health and health policy programs in the Perelman School of Medicine and the School of Nursing. She served as Program Chair for the 2013 Spring Meeting of the Eastern North American Region (ENAR) of the International Biometric Society, the major professional meeting for biostatisticians in North America.

Rudolf R. Roth, MD*Professor of Clinical Dermatology*

Dr. Roth has been referred to as a “physician’s physician,” known for his depth of knowledge in a broad range of diseases in medical dermatology and as a highly skilled dermatologic surgeon. He serves as Medical Director of Dermatology at Penn Medicine at Radnor. He plays a key role in the dermatology teaching programs. He has been involved in multiple global and community health initiatives, including volunteer work in the Puentes de Salud clinic. He established an innovative teaching program involving faculty and residents in a leading academic dermatology group in Guatemala, involving joint delivery of care with their residents and Penn residents in underserved areas. He organizes visits to the Penn Program for the faculty and residents from Guatemala. He has travelled to Costa Rica to work with Health Volunteers Overseas and to Botswana to work with the American Academy of Dermatology Residents International Grant recipients. In 2011, he received the Presidential Citation to recognize his efforts in teledermatology and in 2014, he received the Members Making a Difference Award for efforts in global dermatology from the American Academy of Dermatology.

Matthew J. Ryan, MD*Associate Professor of Clinical Pediatrics*

Dr. Ryan excels as a pediatric gastroenterologist whose practice includes a broad range of gastrointestinal disorders from simple reflux disease to complicated second opinions. His leadership in the aero-digestive disease has led to his being named Director of Aerodigestive Disorders. This program is a collaborative effort among otolaryngology, pulmonology, speech therapy, and gastroenterology. In recognition of his teaching, he was named to the GI Fellows’ Faculty Honor Roll in 2015. He is a member of The American Gastroenterology Association and the American Association for the Study of Liver Diseases. He currently serves on the Ethics Committee of the North American Society of Pediatric Gastroenterology, Hepatology and Nutrition.

Sandra W. Ryeom, PhD*Associate Professor of Cancer Biology*

Dr. Ryeom is an influential leader in the field of cancer biology. Her research focuses on physiologic and pathologic angiogenesis, endothelial cell activation, and tumor vasculature. Her highly cited 2009 *Nature* publication is a seminal study and the first to demonstrate that elevated expression of the calcineurin inhibitor *Dscr1* explains in part the reduced rate of cancer in individuals with Down syndrome. She has an impressive record of grant funding. Her research is published in premier journals such as *Nature*, *Cancer Cell*, *Blood*, and the *Journal of Clinical Investigation*. Dr. Ryeom is an outstanding teacher and mentor. She was selected by Dr. Jonathan Epstein, Executive Vice Dean and Chief Scientific Officer, to be one of the faculty leaders of the Richards Society which has been established to contribute to a supportive and collaborative environment at PSOM for tenure track assistant professors.

Wudbhav N. Sankar, MD*Associate Professor of Orthopaedic Surgery—Clinician-Educator*

Dr. Sankar is a national and international leader in pediatric orthopaedic surgery with particular expertise in complex hip disorders, spinal deformities, and pediatric orthopaedic trauma. He founded and leads the young adult hip preservation program at CHOP. He received the Young Investigator Award from the American Academy of Orthopaedic Surgeons/Orthopaedic Research Society in 2012. He has contributed peer-reviewed publications in leading journals in his field such as the *Journal of Pediatric Orthopaedics*, *Clinical Orthopaedics and Related Research*, and *The Journal of Bone and Joint Surgery*. Dr. Sankar is the Director of Education for the Division of Orthopaedics at CHOP and co-directs the pediatric orthopaedic fellowship program. He is an active member of the Pediatric Orthopaedic Society of North America and currently chairs the fellowship committee and was elected to the Board of Directors.

Mariarita Santi, MD, PhD

Professor of Pathology and Laboratory Medicine—Clinician-Educator

Dr. Santi is a leader in the field pediatric neuropathology, focusing particularly on the neuropathology of pediatric brain tumors. She studies the correlation of pediatric brain tumor morphology with molecular and genetic features using high-resolution single nucleotide polymorphism arrays and next generation DNA sequencing methodologies. Her scholarship is published in prestigious journals including *Nature Genetics*, *The American Journal of Surgical Pathology*, and *Brain Pathology*. She serves on the editorial boards of *Pediatric and Developmental Pathology* and the *Journal of Neuropathology and Experimental Neurology*. She is a member of a number of professional and scientific societies including the US and Canadian Academy of Pathology and the Society for Pediatric Pathology. She serves on the Professional Affairs Committee of the American Association of Neuropathologists.

Marilyn M. Schapira, MD, MPH

Professor of Medicine—Clinician-Educator

Dr. Schapira is a nationally prominent clinical investigator in the field of medical decision-making. Her multidisciplinary research focuses on health literacy including health numeracy and patient-clinician information, informed decision making in cancer treatment and survivorship, and communication of uncertainty at the patient, physician and policy maker level. She has an impressive record of funding. She is associate editor of the *Journal of Medical Decision Making*. Dr. Schapira is the Associate Director of the Robert Wood Johnson Clinical Scholars Program, Director of the Health Policy Research Track of the Masters in Science in Health Policy Program, and the Director of the General Internal Medicine Fellowship Program. She has been appointed to and elected to leadership roles in several academic societies and national organizations.

Rolf A. Schlichter, MD

Associate Professor of Clinical Anesthesiology and Critical Care

Dr. Schlichter is an accomplished clinician who is widely recognized for providing excellent care for patients undergoing advanced intracranial procedures and for his specialized expertise in awake craniotomy and neurophysiologic monitoring techniques. He also provides excellent care for obstetrical anesthesia. In 2014, he was named Block Chief for Neuroanesthesia at HUP and in 2015, Block Chief for Interventional Radiology. He is an active and enthusiastic educator and mentor of medical students and residents. In 2010, he received the Teacher of the Year Award, elected by residents in the department. He is a member of the American Society of Anesthesiologists, the Society for Neuroscience in Anesthesiology, and the Society for Obstetric Anesthesia and Perinatology.

Stephen J. Schuster, MD

Professor of Medicine—Clinician-Educator

Dr. Schuster is a nationally prominent medical oncologist whose research focuses on the development of novel immune therapy for patients with lymphoma. He has served as Director of Lymphoma Translational Research in the Abramson Cancer Center since 2008. He has advanced the knowledge in the research and treatment of chronic lymphocytic leukemia (CLL) and non-Hodgkin lymphoma (NHL). He has contributed numerous peer-reviewed publications in leading journals such as *The New England Journal of Medicine*, *the Journal of Clinical Oncology*, *The Journal of Immunology*, and *Blood*. He is a reviewer for a number of journals including *Cancer Research*, *Leukemia and Lymphoma*, and *Proceedings of the National Academy of Sciences*. Dr. Schuster is an outstanding educator and mentor of medical students, residents, and fellows. He is a member of the American Society of Hematology, the American Society of Clinical Oncology, and the Leukemia and Lymphoma Society.

Patrick Seale, PhD

Associate Professor of Cell and Developmental Biology

Dr. Seale has made seminal contributions to the field of obesity research. His investigations focus on understanding the regulatory pathways that control the development, differentiation, and function of adipose (fat) cells and has important implications in the treatment of obesity and metabolic disease. He has an excellent record of grant funding. His publications are in leading journals such as *Nature*, *Cell*, *Cell Metabolism*, and the *Journal of Clinical Investigation*. Dr. Seale teaches in a number of graduate courses. He is a frequently invited speaker at national and international venues including the International Congress on Endocrinology, the American Diabetes Association Annual Meeting, and The Obesity Society Annual Meeting.

Pamela A. Shaw, PhD

Associate Professor of Biostatistics in Biostatistics and Epidemiology—Clinician-Educator

Dr. Shaw is a nationally recognized researcher and biostatistician who makes substantial contributions to applied and methodologic research areas. In a short period of time, she has established highly productive collaborations with Penn Medicine investigators in translational research focused on immunotherapy for cancer and HIV, on the design and analysis of randomized controlled trials in immunotherapy and behavioral economics, and interventional and biomarkers studies in physical and nutritional epidemiology. Her methodological research involves statistical methodology to address covariate measurement error. She publishes her research in high impact statistical and clinical journals including *The New England Journal of Medicine*, *Blood*, *AIDS*, and *Statistics in Medicine*. She is a member of the Transplantation Data and Safety Monitoring Board for the NIAID. In 2014, she received the Sandy Norman Award for Teaching Excellence.

Charles B. Simone, II, MD*Associate Professor of Radiation Oncology—Clinician-Educator*

Dr. Simone is a national leader in academic radiation oncology, particularly in thoracic oncology. His research complements his clinical responsibilities and focuses on the use of radiation therapy and photodynamic therapy as definitive therapy and as part of multi-modality therapy for non-small cell lung cancer, small cell lung cancer, and mesothelioma and on proton therapy and other methods to mitigate normal tissue toxicity from radiotherapy. He has developed standardized clinical treatment approaches to thoracic malignancies that have been implemented throughout the University of Pennsylvania Health System and satellite affiliates. He is editor-in-chief of *Annals of Palliative Medicine*. Dr. Simone is an outstanding educator and mentor. In 2013, he received the Educator of the Year Award from the Association of Residents in Radiation Oncology.

Sunil Singhal, MD*Associate Professor of Surgery*

Dr. Singhal is an outstanding physician-scientist who has made groundbreaking contributions to research in immunotherapy for thoracic malignancies and intraoperative imaging for cancer surgery. His research focuses on optimizing surgical treatment of tumors and leveraging the immune system to prevent both local and systemic recurrences shortly after surgery. His group developed the first robust system in the world to image intraoperatively tumors including breast and lung cancer, melanoma, thymic carcinomas, and sarcomas. He is the chief of the section of thoracic surgery at the Veterans Affairs Medical Center and Director of the Thoracic Surgery Research Laboratory. In 2015, he was named Surgical Director of the Penn Pleural Center and Director of the Center for Precision Surgery of the Abramson Cancer Center. He has an exceptional record of funding and publishes his research in premier journals. Dr. Singhal's teaching contributions are equally impressive. He presents his work nationally and internationally.

Raman R. Sreedharan, MBBS*Associate Professor of Clinical Pediatrics*

Dr. Sreedharan makes important contributions as a clinician, educator, and administrator. He is recognized nationally for his expertise in the complex diagnosis of pancreatic disorders. He is board certified in Clinical Informatics and has been instrumental in implementing and improving the functionality of the electronic health record (EHR) into everyday practice. He participates on numerous CHOP committees including the EHR Governance Committee, the Specialists with Advanced Technical Training (SWATT) Committee, and the Clinical Documentation Standards Committee. He is also the co-director of the SWATT committee for Specialty Care for CHOP. He is a respected teacher of medical students, residents and fellows in the inpatient and ambulatory care settings and provides training to clinician colleagues and other healthcare providers on the efficient use of the EHR. He is a member of the Technology Committee of the North American Society for Pediatric Gastroenterology, Hepatology and Nutrition.

Jason Z. Stoller, MD*Associate Professor of Clinical Pediatrics*

Dr. Stoller is an outstanding neonatologist who is recognized for his participation and leadership in clinical, programmatic and quality improvement efforts. He co-chairs the Neonatology Clinician Performed Ultrasound Program to promote ultrasound skills among various caregivers for procedures, emergency evaluations and to follow hour-by-hour physiologic changes in neonates. He played a key role in the development of The Chronic Lung Disease Program in the Neonatal Intensive Care Unit and in clinical pathway development. He is a clinical champion who has been a leader in the implementation and continuous optimization of the electronic health record. He also focuses on genomics integration and coordination of efforts to integrate pharmacogenomic and genetic information into the electronic health record to enhance research initiatives. He is co-chair of the Communications Committee for the Society for Pediatric Research and a Fellow of the American Academy of Pediatrics.

Paul A. Stricker, MD*Associate Professor of Anesthesiology and Critical Care—Clinician-Educator*

Dr. Stricker is a national leader in pediatric airway management, anesthesia for craniofacial surgery, pediatric transfusion management, and quality improvement. He has established an international Pediatric Craniofacial Collaborative Group and a multicenter craniofacial registry which are considered to be having a major impact on clinical practice. He is an accomplished clinical trialist and has published his results in leading subspecialty journals. He received the Teacher of the Year Award from his department in 2011 and 2012. He has taught in a regional course, 13 national courses, and four international programs since 2012. He is an oral board examiner with the American Board of Anesthesiology. He is a member of the American Society of Anesthesiologists, the International Anesthesia Research Society, and the Difficult Airway Data Task Force Subcommittee of the Special Interest Group in Biomedical Informatics and Technology of the Society for Pediatric Anesthesia.

Wilson Y. Szeto, MD*Professor of Surgery—Clinician-Educator*

Dr. Szeto is an internationally recognized academic surgeon in the field of cardiovascular surgery. His research complements his clinical activities and focuses on aortic surgery and catheter-based therapy for valvular disease. He leads and participates in numerous key clinical trials investigating new technologies and methods. In 2015, he was named Chief of Cardiovascular Surgery at Penn Presbyterian Medical Center. He has contributed peer-reviewed publications in leading journals. He is on the editorial board for The Cardiothoracic Surgery Network: Endovascular Portal. He is a member of a number of professional and scientific societies. He serves on many committees for the Society of Thoracic Surgeons including the Workforce on New Technology and the Taskforce on Access and Publications and has chaired clinical guidelines committees for the American Association of Thoracic Surgery.

Patricia A. Takach, MD*Associate Professor of Clinical Medicine*

Dr. Takach has been referred to as a “go-to physician,” known for her thorough and compassionate care and for being a consummate patient advocate. She sees patients with disorders that include common and rare allergic and immunologic diseases with a special interest in sinusitis and asthma. She is an innovative educator who has developed a curriculum and practicum for rhinoscopy for fellow education and developed a curriculum for residents in Otolaryngology-Head and Neck Surgery. She was awarded the Burton Zweiman Teaching Award in the department of medicine in 2013. She contributed to *The Intensive Care Unit Manual, 2nd edition* in 2014. She is a member of the Anaphylaxis Committee and the Rhinitis, Rhinosinusitis and Ocular Allergy Committee of the American Academy of Allergy, Asthma and Immunology.

David T. Teachey, MD*Associate Professor of Pediatrics—Clinician-Educator*

Dr. Teachey is making significant contributions to the field of pediatric hematology-oncology. His translational research focuses on the pathogenesis and targeted treatment of pediatric acute lymphoblastic leukemia (ALL) and autoimmune lymphoproliferative syndrome (ALPS). He has been successful in garnering support for his research. He is recognized for his membership and effective leadership in the Children’s Oncology Group, the leading clinical trials group for childhood cancer and currently serves as Study Chair. He received The Lady Barbara Colyton Autoimmune Research Award, a Penn Medicine Award of Excellence, and The 2013 Golan and Christie Advancement Award for Saving Lives Through Rediscovery Research, Cures Within Research. He serves as a reviewer for an NIH Study Section and reviews grants for the Leukemia and Lymphoma Society and the St. Baldrick’s Foundation. Dr. Teachey is an excellent educator and mentor of medical students, residents, and fellows in the clinical, didactic, and research settings.

Oana Tomescu Langum, MD, PhD*Associate Professor of Clinical Medicine*

Dr. Tomescu Langum makes substantial contributions as a clinician and educator. She is acknowledged for her dedicated care for adolescents and young adults with chronic complex medical and psychological illness and in transitioning care from the pediatrics environment at CHOP to adult medicine at HUP. She is an inspiring and innovative educator and mentor of medical students, residents and fellows. She has received numerous teaching awards including the Penn Pearls Teaching Award, election to the CHOP Faculty Honor roll, the Joanne Decker Memorial Work/Family Mentoring Award from CHOP, and the John M. Eisenberg Teaching Award from the division of general internal medicine. She is associate program director for the joint medicine and pediatrics residency program and has developed a novel curriculum for residents in physician wellness and mental health that has become an important recruiting tool for the residency program. She is a member of the Society of Adolescent Medicine, the Society of General Internal Medicine, and the Association of Program Directors in Internal Medicine.

Alexis A. Topjian, MD, MSCE*Associate Professor of Anesthesiology and Critical Care—Clinician-Educator*

Dr. Topjian is a leader in academic pediatric critical care medicine, particularly in the field of resuscitation science and neurocritical care. Her impactful research has been translated into clinical care and focuses on assessment and prevention of neurologic injury following pediatric resuscitation. She was named Medical Director of Neurocritical Care in the Pediatric Intensive Care Unit at CHOP in 2014. She has been successful in garnering support for her research and has published her work in leading journals. She is a Fellow in the American College of Critical Care Medicine and the American Heart Association. Dr. Topjian is an active and dedicated educator and mentor of medical students, residents, and fellows. She has served as the associate director of the fellowship program for critical care medicine since 2010. She is a member of the Society of Critical Care and has served on many committees for the American Heart Association.

Kha M. Tran, MD*Associate Professor of Clinical Anesthesiology and Critical Care*

Dr. Tran is a highly respected pediatric and obstetrics anesthesiologist who is recognized for his expertise in the delivery of complex anesthesia care to pregnant patients. He serves as Director of the Fetal Anesthesia Team and Medical Director of CHOP’s Chalfont Ambulatory Surgery Center. He makes substantial contributions as an educator and mentor of a variety of learners including medical students, residents, fellows, undergraduate students, and nurse anesthesia students. He received the Teacher of the Year Award from the department numerous times. He is a question writer for the In Training Examination and the Advanced Examination of the American Board of Anesthesiology. He is a member of a number of professional and scientific societies including the International Fetal Medical and Surgical Society, the Society for Pediatric Anesthesia, and the Society for Obstetric Anesthesia and Perinatology. He is a founding member of the Fetal Anesthesia Database.

Craig A. Umscheid, MD, MSCE*Associate Professor of Medicine—Clinician-Educator*

Dr. Umscheid is a nationally prominent leader in clinical epidemiology, clinical effectiveness, evidence-based medicine, health technology assessment, computerized clinical decision support (CDS), and hospital medicine. He focuses on the synthesis of medical evidence for clinical decision making, the dissemination of evidence into practice, and the use of practical study designs to measure the impact of evidence-based quality improvement with the overall goal of improving the safety and quality of care for hospitalized patients. He collaborates with the Centers for Disease Control (CDC) to assist with guideline development. He is the Director of the Penn Medicine Evidence-based Practice Center and Medical Director of Clinical Decision Support for Penn Medicine. He has an excellent record of funding and scholarship. He has participated in a national teaching program (TEACH) where he has taught multidisciplinary groups of clinical leaders the basics of evidence-based decision making at the health system level.

William J. Vernick, MD

Associate Professor of Clinical Anesthesiology and Critical Care

Dr. Vernick is recognized nationally for his expertise in cardiac anesthesiology. He is Chief of the Section of Cardiovascular Anesthesia at Penn Presbyterian Medical Center and serves on numerous committees including the New Technology Committee, the Perioperative Executive Committee, and the Operating Room Unit Based Clinical Leadership Committee. He co-developed and co-leads the Penn Lung Rescue Program, a unique program for patients with acute respiratory failure that provides mobile extracorporeal membrane oxygenation to transport unstable patients. He is an excellent educator and mentor of residents and fellows. He is a member of the American Society of Anesthesiologists and serves on the Economics and Governmental Affairs Committee of the Society of Cardiovascular Anesthesiologists.

Arastoo Vossough, MD, PhD

Associate Professor of Radiology—Clinician-Educator

Dr. Vossough is an influential leader in pediatric neuroradiology. His research focuses on cerebrovascular disease in children, advanced imaging techniques in brain tumors, imaging of the temporal bone, and craniofacial syndromes. He received the American Society of Pediatric Neuroradiology Annual Award in Pediatric Neuroradiology Research in 2010. In 2015, he was named Director of the Neuroradiology Medical Image Analysis Lab at CHOP. He publishes his studies in leading subspecialty journals. He is a member of the editorial boards of the *American Journal of Neuroradiology* and *Neurovascular Imaging*. He is a member of the Radiographics Neuroradiology Review Panel for the Radiological Society of North America, a member of the Education Committee of the American Society of Head and Neck Radiology, the American Society of Neuroradiology, and the American Society of Pediatric Neuroradiology.

Daniel Weintraub, MD

Professor of Psychiatry—Clinician-Educator

Dr. Weintraub is recognized internationally for his investigations in the field of neuropsychiatric and cognitive complications in Parkinson's disease (PD) and other neurodegenerative disorders. His research interests include the epidemiology of neuropsychiatric symptoms and cognitive impairment in PD, the impact of PD treatments on non-motor symptoms, the neurobiology of neuropsychiatric symptoms in PD, the development and validation of assessment tools and diagnostic criteria for non-motor symptoms in PD, and the management of psychiatric disorders and cognitive impairment in PD and Alzheimer's disease. He has a history of sustained funding for his research. He lists peer-reviewed publications in premier journals. He is associate editor of *Movement Disorders*. Dr. Weintraub chairs the Cognitive/Behavioral Working Group of the Michael J. Fox Foundation for Parkinson's Research.

Pamela F. Weiss, MD, MSCE

Associate Professor of Pediatrics—Clinician-Educator

Dr. Weiss has achieved national prominence in the field of pediatric juvenile arthritis, particularly juvenile spondyloarthritis (JSpA). Her research focuses on the pharmacology and outcomes of pediatric juvenile idiopathic arthritis (JIA) and JSpA to improve diagnosis and develop treatment strategies. She has also advanced the use of ultrasound driven injections for children with JIA. In 2014, she received the prestigious Spondylitis Association of America-Bruckel Young Investigator Award. She has a successful record of research funding. Dr. Weiss received the Arthritis Foundation Professional Educator Award in 2012. She served as a member of the Core Expert Panel for Development of Clinical Practice Guidelines for Axial Spondyloarthritis for the American College of Rheumatology. She is Vice-Chair of the JIA Research Committee and co-chair of the Spondyloarthritis research group for the Childhood Arthritis and Rheumatology Research Alliance.

Rachel M. Werner, MD, PhD

Professor of Medicine

Dr. Werner is a leading health economist who combines her expertise as a primary care physician to make important contributions that inform the delivery of health care in the United States. Her research focuses on the role of quality improvement incentives on provider behavior, the organization of health care, racial disparities, and overall health care quality. She has a successful record of funding and has contributed peer-reviewed publications in high impact journals. Among a number of her professional distinctions are election to the American Society of Clinical Investigation in 2012, the Outstanding Investigator Award from the American Federation for Medical Research in 2013, and the Samuel Martin Health Evaluation Services Research, a Penn Medicine Award of Excellence in 2014. She is a standing member of the NIH Health Services Organization and Delivery Study Section, serves as a technical expert on panels for AHRQ and the Centers for Medicare and Medicaid Services, and is a member of an advisory panel for the National Quality Forum.

Dawei Xie, PhD

Associate Professor of Biostatistics in Biostatistics and Epidemiology—Clinician-Educator

Dr. Xie is a highly productive, nationally recognized collaborative researcher and statistical methodologist. Her collaborative research focuses on renal disease and on disability. Her methodological investigations focus on small area estimation and analytical strategies for large-scale longitudinal studies. Among her many funding sources is her leadership of the biostatistical team for the Chronic Renal Insufficiency Cohort Study, a multi-center cohort study funded by NIH. Her publications are in prestigious journals. Dr. Xie is an outstanding mentor of graduate students in biostatistics and epidemiology. In 2015, she organized an invited session for the Eastern North American Region of the International Biometric Society spring meeting.

Sharon Xiangwen Xie, PhD

Professor of Biostatistics in Biostatistics and Epidemiology

Dr. Xie is a nationally and internationally recognized academic biostatistician. Her collaborative investigations focus on the clinical, biochemical, pathological, and genetic features of Alzheimer's disease, Parkinson's disease, frontotemporal lobar degeneration, amyotrophic lateral sclerosis, and other diseases characterized by neurodegeneration and the development of therapeutic interventions to prevent and cure these diseases. Her methodologic contributions include the development of methods for measurement error problems and survival analysis. Her publications are in leading journals including *Neurology*, *Biometrics*, and *Movement Disorders*. She is a standing member of the National Alzheimer's Coordinating Center Scientific Review Committee for the National Institute of Aging.

Xiaowei (George) Xu, MD, PhD

Professor of Pathology and Laboratory Medicine—Clinician-Educator

Dr. Xu is a highly accomplished pathologist, dermatopathologist, and oncologic pathologist who is a nationally prominent academic leader in his field. His translational research focuses on melanoma and skin stem cells. He has contributed peer-reviewed publications in leading 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*, *Pathology and Laboratory Medicine International*, *Dermatology Research and Practice*, and *World Journal of Stem Cells*. He serves on several NIH study sections. He lectures nationally and internationally. He is a member of a number of professional and scientific societies including the International Society of Stem Cell Research and the American Cancer Society.

Hongming Zhuang, MD, PhD

Professor of Radiology—Clinician-Educator

Dr. Zhuang is an accomplished and highly productive academic radiologist, specializing in nuclear medicine. His research has evolved from focusing on adult nuclear medicine to pediatric nuclear medicine, applying Position Emission Tomography/Computed Tomography (CT) and Single Photon Emission Computed Tomography/CT on pediatric disorders such as lymphoma and neuroblastoma. Since 2005, he has served as Chief of the Division of Nuclear Medicine at CHOP. He has contributed peer-reviewed publications in leading journals such as the *Journal of Nuclear Medicine*, and the *European Journal of Nuclear Medicine*. He is deputy editor of *Clinical Nuclear Medicine*, associate editor of *Current Molecular Imaging*. In 2015 and he was named a Fellow of the American College of Nuclear Medicine.

Hongtao Zhang, PhD

Research Associate Professor of Pathology and Laboratory Medicine

Dr. Zhang is a productive, independent and collaborative investigator whose research focuses on the use of the immune system to treat and monitor malignancy. His contributions include the development of a highly sensitive assay for the detection of rare proteins from serum and an innovative approach to reduce serum interference for biomarker detection. He lists peer-reviewed publications in leading journals including *Cancer Research*, *Proceedings of the National Academy of Sciences*, and *The Journal of Biological Chemistry*. He is editor of *Current Signal Transduction Therapy*. Dr. Zhang participates as a scientific advisor in the Vagelos Life Science and Management Program at The Wharton School and participates in mentoring trainees and visitors who rotate through the laboratory. He presents his work nationally and internationally. He is a member of The Antibody Society.



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