



2017-2018 Recently Appointed Professors

Appointed since May 15th, 2017 through October 31, 2017

Faculty of Medicine reception held on December 14th, 2017



Erik K. Alexander, M.D.

Dr. Alexander is Professor of Medicine and Chief of the Thyroid Section at Brigham & Women's Hospital. His research is focused upon understanding and preventing maternal hypothyroidism during pregnancy, and separately upon the evaluation of thyroid nodules and reducing unnecessary surgery. Dr. Alexander is also a national leader in Medical Education, currently directing the BWH Undergraduate Medical Education and the Principle Clinical Experience."



Frederick G. Barker II, M.D.

Dr. Barker is Professor of Neurosurgery at Massachusetts General Hospital where he is the Neurosurgical Co-Director of the Cranial Base Center. His clinical practice focuses on benign tumors of the skull base. He has conducted clinical trials using innovative methods including targeted treatment of benign skull base tumors along with population-based studies of social determinants of neurosurgical outcomes.



David H. Bor, M.D.

Dr. Bor is Professor of Medicine at the Cambridge Health Alliance where he is the Chief Academic Officer. During nearly 25 years as Chief of Medicine, he helped develop Cambridge Health Alliance as a socially accountable health system and a highly regarded setting for clinical education, participatory research and health policy advocacy. He is recognized as an innovator in medical education with a commitment to meeting the needs of diverse communities.



Bob S Carter, M.D., Ph.D.

Dr. Carter is Professor of Neurosurgery at Massachusetts General Hospital, where he is Head of the Department of Neurosurgery and Co-Director of the Brain Tumor Center. His field of expertise is neurosurgical oncology, and the development of novel diagnostics and gene/cell based therapeutics for glioma. His characterization of exosomes in glioma has led to the development of new strategies for liquid biopsy based diagnosis and monitoring for brain tumors and other central nervous system conditions.



Laura C. Collins, M.D.

Dr. Collins is Professor of Pathology at the Beth Israel Deaconess Medical Center where she is the Vice Chair of Anatomic Pathology and Director of Breast Pathology. She is internationally recognized for her diagnostic excellence, specifically with respect to the analysis and assessment of patient specimens. Her research has focused on furthering our understanding of a variety of pathologic entities of the breast, which has influenced the care that these patients receive.



Karen H. Costenbader, M.D.

Dr. Costenbader is Professor of Medicine at Brigham and Women's Hospital where she is Director of the Lupus Program. She is a recognized leader in the epidemiology of systemic lupus erythematosus and rheumatoid arthritis. Her work has identified environmental factors that influence the risk of developing these autoimmune diseases, and has advanced the understanding of the causes of sociodemographic disparities in their incidence and outcomes.



William T. Curry Jr., M.D.

Dr. Curry is Professor of Neurosurgery at Massachusetts General Hospital where he is the Neurosurgical Director of the MGH Neuroscience Institute. He has advanced the care of patients with brain tumors both by championing the implementation of minimally invasive surgical techniques and defining immune responses against glial tumors. His pioneering work in combination immunotherapy against glioblastoma has set the stage for clinical trials in this arena.



Immaculata De Vivo, Ph.D.

Dr. De Vivo is Professor of Medicine at Brigham and Women's Hospital and Director of the Dana-Farber/Harvard Cancer Center Genotyping and Genetics for Population Sciences Facility. She is an international leader in the area of molecular and genetic epidemiology of cancer, recognized for developing a unique epidemiological approach to identify and characterize biological markers of carcinogenic mechanisms. Her research focuses on identifying and characterizing biological markers of carcinogenic mechanisms.



Matthias Eikermann, M.D.

Dr. Eikermann is Professor of Anaesthesia and Vice Chair of Faculty Affairs at the Beth Israel Deaconess Medical Center. He is a clinician-scientist who has developed a quality improvement and research database that he uses to investigate clinical pathways for optimizing perioperative treatment to eliminate respiratory complications. His research portfolio also encompasses critical care and sleep medicine, with an additional interest in drug development.



Jon I. Einarsson, M.D.

Dr. Einarsson is Professor of Obstetrics, Gynecology and Reproductive Biology at Brigham and Women's Hospital where he is Director of the Division of Minimally Invasive Gynecologic Surgery. His research is focused on gynecologic surgery outcomes as well as device innovation and development. He is also renowned for providing surgical care for patients with complex gynecologic pathology.



Patrick T. Ellinor, M.D., Ph.D.

Dr. Ellinor is Professor of Medicine at Massachusetts General Hospital where he is Director of the Cardiac Arrhythmia Service. His research has focused on the genetics and the molecular mechanisms underlying atrial fibrillation. He has identified new pathways and potential therapeutic targets for this common arrhythmia.



A. Eden Evins, M.D.

Dr. Evins is Professor of Psychiatry at Massachusetts General Hospital and Founding Director for the MGH Center for Addiction Medicine. She has identified therapeutic targets and developed novel treatments for addictive disorders, with a focus on nicotine dependence and cannabis use disorders. Her findings of safety and efficacy of pharmacotherapeutic smoking cessation aids for those with serious mental illness have led to significant regulatory actions and clinical guidelines that have improved smoking cessation outcomes in this population.



Omid C. Farokhzad, M.D.

Dr. Farokhzad is a Professor of Anaesthesia at Brigham and Women's Hospital where he established and serves as the Director of the Center for Nanomedicine. His research is focused on developing nanoparticle technologies for medical applications. These academic innovations formed the foundation for the launch of several biotechnology companies where four nanotherapeutics are in clinical development.



Mary C. Frates, M.D.

Dr. Frates is Professor of Radiology and Assistant Director of the Ultrasound Division at Brigham and Women's Hospital. She is an internationally recognized expert on sonography of the thyroid and has been a leader in the development of clinical guidelines for the management of thyroid nodules. Her research has focused on the role of sonography in the identification of thyroid cancer and cancer recurrence.



Rajesh T. Gandhi, M.D.

Dr. Gandhi is Professor of Medicine at Massachusetts General Hospital where he is Director of HIV Clinical Services and Education. He is a recognized expert in treatment of people with HIV and has pioneered programs to improve education of clinicians in HIV medicine and infectious diseases. His research has contributed to our understanding of HIV persistence in people on antiretroviral therapy.



Randy L. Gollub, M.D., Ph.D.

Dr. Gollub is Professor of Psychiatry at Massachusetts General Hospital where she is Associate Director of Translational Research in the Neuroimaging Research Program. She is a recognized leader in the development and application of advanced neuroimaging technologies to understand the pathophysiology of neuropsychiatric disorders. She is currently working on translating these advances into clinical radiology practice to improve patient care through the use of large-scale imaging informatics approaches.



Chenghua Gu, Ph.D.

Dr. Gu is Professor of Neurobiology at HMS. Her laboratory studies the interactions between the vascular and the nervous systems, specifically how the blood-brain barrier functions and how blood supply is dynamically matched to the local energy needs of neural circuits. Her laboratory recently demonstrated that inhibition of transcytosis is a major mechanism for the brain blood barrier function, which implies that the molecular pathways inhibiting transcytosis could be targeted to open this barrier and deliver drugs to the central nervous system.



Matti S. Hämäläinen, Ph.D.

Dr. Hämäläinen is Professor of Radiology at Massachusetts General Hospital where he is Director of the Magnetoencephalography (MEG) Core at Athinoula A. Martinos Center for Biomedical Imaging. He is one of the pioneers in the application of MEG in conjunction with other non-invasive imaging methods to study human brain function. He has had a crucial role in developing whole-head MEG instrumentation, analytical methods and tools, as well as experimental protocols, which have together paved the way for MEG becoming an important basic research and clinical tool worldwide.



Robert P. Hasserjian, M.D.

Dr. Hasserjian is Professor of Pathology at Massachusetts General Hospital where he is Director of the Hematopathology Fellowship and an Associate Director of the Pathology Residency Program. He is an expert in the diagnosis of lymphomas and bone marrow disorders, particularly leukemias. His research interests are specifically focused on the pathologic risk-stratification of myelodysplastic syndromes, acute myeloid leukemia, therapy-related myeloid neoplasms, and erythroleukemias.



Nobuhiko Hata, Ph.D.

Dr. Hata is Professor of Radiology at Brigham and Women's Hospital where he is Technical Director of the Image Guided Therapy program. He is a pioneer and innovator in the field of medical robotics and oncology-related imaging. Throughout his career as a "Robot Scientist in Scrubs", he has made major contributions to the surgical navigation and robotics field with a special emphasis on the actual clinical use and subsequent dissemination of advanced engineering methods from the laboratory.



Petr Jarolim, M.D., Ph.D.

Dr. Jarolim is Professor of Pathology at Brigham and Women's Hospital where he directs Clinical Chemistry and at the Dana-Farber Cancer Institute where he directs the Clinical Laboratories. His research led to elucidation of the molecular basis of different hereditary hemolytic anemias, of the malaria-resistant Southeast Asian ovalocytosis and of numerous blood group antigens. He is currently focused on using circulating biomarkers to diagnose and monitor acute myocardial infarction and heart failure and to predict adverse cardiovascular outcomes.



Stefanos N. Kales, M.D., M.P.H.

Dr. Kales is Professor of Medicine at the Cambridge Health Alliance, where he is Chief of Occupational Medicine. His research into cardiovascular disease mortality among firefighters and police officers is temporally related to specific heart-stressing work duties, which has led to efforts to decrease recognized cardiovascular risk factors among first responders. He has also demonstrated strong associations between untreated sleep apnea and increased risk of motor vehicle crashes, mostly in commercial drivers, and has highlighted the overall importance of sleep apnea as an under recognized occupational hazard.



Carla F. Kim, Ph.D.

Dr. Kim is Professor of Genetics at Boston Children's Hospital. She has pioneered the use of stem cell biology approaches for the study of adult lung progenitor cells and lung cancer. Her work has contributed to a better understanding of stem cell biology in the lung, development of innovative approaches for examining the cellular and molecular basis of cancer and pulmonary disease, and identification of new therapeutic avenues for lung cancer.



Michael Klompas, M.D.

Dr. Klompas is Professor of Population Medicine in the HMS Department of Population Medicine and incoming Hospital Epidemiologist at Brigham and Women's Hospital. He is an expert in surveillance and prevention of hospital-acquired infections, particularly nosocomial pneumonia and sepsis. He has also created innovative new systems to enable health departments to track chronic conditions and communicable diseases using electronic health record data.



Christopher P. Landrigan, M.D., M.P.H.

Dr. Landrigan is Professor of Pediatrics at Boston Children's Hospital where he is Research Director of the Inpatient Pediatrics Service and serves as Director of the Sleep and Patient Safety Program at Brigham and Women's Hospital. He is a patient safety expert and practicing pediatric hospitalist. His work has been focused on developing reliable patient safety measurement tools; studying the relationship between resident work hours, sleep, and patient safety; and developing, studying, and disseminating I-PASS, a program to reduce handoff errors and miscommunications in hospitals.



Tal Laor, M.D.

Dr. Laor is Professor of Radiology at Boston Children's Hospital where she is the Academic Division Chief of Musculoskeletal Imaging. Her contributions to the field of pediatric radiology include seminal research and educational activities focused on magnetic resonance imaging of physiological and pathological growth of the pediatric musculoskeletal system. Her work has provided foundation for current magnetic resonance imaging evaluation of normal ossification, growth plate disorders, stress-related growth disturbances, as well as for rheumatologic and muscular diseases in children.



Bernard T. Lee, M.D., M.B.A., M.P.H.

Dr. Lee is Professor of Surgery at the Beth Israel Deaconess Medical Center where he is Chief of the Division of Plastic and Reconstructive Surgery and is also the Chair of the Executive Committee for the Harvard Plastic Surgery Residency Training Program. He is a leader in the field of microsurgery and reconstructive surgery. His research contributions focus on clinical outcomes after breast cancer reconstruction as well as novel near infrared imaging technologies to evaluate perfusion in reconstructive surgery and composite tissue allotransplantation.



Stephen D. Liberles, Ph.D.

Dr. Liberles is Professor of Cell Biology at Harvard Medical School who studies how our brain senses smells, tastes, and physiological inputs from internal organs. He identified novel families of olfactory receptors and characterized how odors and pheromones elicit innate survival behaviors in mice, such as feeding, mating, and predator escape. His lab also identified internal sensory receptors of the vagus nerve, a major body-brain connection that controls basic functions such as breathing, heart rate, and metabolism.



Feroze-Ud-Din Mahmood, M.B.B.S.

Dr. Mahmood is Professor of Anaesthesia at the Beth Israel Deaconess Medical Center where he is Chief of the Division of Cardiac and Vascular Anesthesia. He is among the pioneers using intraoperative three-dimensional imaging for cardiac surgery and has also been at the forefront of using 3D printing technology for cardiac surgical planning and developing haptic task training models. He has developed a dedicated transesophageal echocardiography and point of care ultrasound simulation laboratory to educate others.



William W. Mayo-Smith, M.D.

Dr. Mayo-Smith is Professor of Radiology at Brigham and Women's Hospital where he is Vice Chair for Radiology Education. His clinical and research efforts have focused on using advanced imaging techniques including CT and MRI to diagnose and guide minimally invasive treatments for renal, adrenal and lung cancer. His work has also led to the development of clinical guidelines for appropriate treatment of incidental findings discovered during advanced imaging examinations.



David F. McDermott, M.D.

Dr. McDermott is Professor of Medicine at Beth Israel Deaconess Medical Center and Leader of the Kidney Cancer Program at the Dana-Farber/Harvard Cancer Center. His clinical and research interests focus on cancer immunotherapy, kidney cancer and melanoma. He has contributed to the development of immune check point inhibitors that are improving outcomes for patients with a growing list of cancer diagnoses.



J. Michael McWilliams Jr., M.D., Ph.D.

Dr. McWilliams is Professor of Health Care Policy at Harvard Medical School. He is a nationally recognized leader in the study of health care payment and delivery systems. His research has contributed regularly to policies that support value and equity in health care.



David Mischoulon, M.D., Ph.D.

Dr. Mischoulon is Professor of Psychiatry at Massachusetts General Hospital where he is Director of the Depression Clinical and Research Program (DCRP). His clinical and research activities focus on depressive disorders, with a particular interest in the role of complementary and alternative medicine (CAM). He has contributed to the understanding of the antidepressant efficacy and safety of various CAM therapies and has clarified their potential underlying mechanisms of action.



Jennifer Moyer, Ph.D.

Dr. Moyer is Professor of Psychology in the Department of Psychiatry at the VA Boston Healthcare System where she is the Associate Director of Education and Evaluation at the VA New England Geriatric Research Education and Clinical Center. She is a psychologist with expertise in decision making capacity and behavioral healthcare for older adults. Her work has focused on translating capacity research into clinical and legal resources in the form of templates, guidelines, and practice handbooks.



Janet M. Mullington, Ph.D.

Dr. Mullington is Professor of Neurology at the Beth Israel Deaconess Medical Center where she is Program Director of the Clinical Research Center. Her research has focused on the role of sleep in human host defense mechanisms and has pioneered studies in inflammatory, metabolic and autonomic system involvement. She is currently translating these findings through a clinical trial on behavioral interventions to treat hypertension.



Shawn N. Murphy, M.D., Ph.D.

Dr. Murphy is Professor of Neurology at Massachusetts General Hospital where he is Associate Director for the Laboratory of Computer Science and also serves as Chief Research Information Officer at Partners HealthCare. His research interests include the creation of query methods for healthcare data that enable them to be directly used by scientists. He has created open source projects that focus on integrating highly diverse phenotypic, imaging, and genomic data such that new discoveries can be visualized and produced from secondary use of routinely collected healthcare data.



Sareh Parangi, M.D.

Dr. Parangi is Professor of Surgery at Massachusetts General Hospital. She is an endocrine surgeon focusing on personalized surgical care of patients with thyroid, parathyroid and adrenal disorders. She investigates the molecular mechanisms of thyroid cancers including elucidating the role of certain key genes underlying these cancers and developing relevant mouse models for translational research.



Antonio R. Perez-Atayde, M.D.

Dr. Perez-Atayde is Professor of Pathology at Boston Children's Hospital where he is Director of Diagnostic Surgical Pathology and Director of Special Techniques. His focus is on identifying histopathological, immunohistochemical and ultrastructural diagnostic and prognostic markers of pediatric diseases and has provided insights into the pathogenesis of pediatric tumors. He is involved in International Outreach Programs serving underdeveloped countries as a consultant in the pathologic diagnosis of challenging pediatric tumors.



Wanda Phipatanakul, M.D.

Dr. Phipatanakul is Professor of Pediatrics at Boston Children's Hospital where she is the Director of the Asthma Clinical Research Center. She is a recognized international leader investigating the role of modifiable environmental risk factors and health disparities in inner-city children with asthma and developing effective strategies to reduce and prevent asthma and allergic diseases. Her work has contributed to the comprehensive understanding of school-specific environmental factors that contribute to health disparities.



Eric A. Pierce, M.D., Ph.D.

Dr. Pierce is Professor of Ophthalmology at Massachusetts Eye and Ear where he is Director of the Ocular Genomics Institute. His research is focused on defining the genetic causality of inherited retinal degenerations (IRDs), deciphering underlying disease pathogenesis, and developing therapeutic interventions for these disorders. He is currently focused on developing gene and genetic therapies for IRDs, and translating these treatments into clinical care via a combination of laboratory-based and clinical research.



Jennifer E. Potter, M.D.

Dr. Potter is Professor of Medicine at the Beth Israel Deaconess Medical Center and is the Advisory Dean and Director of the Castle Society at Harvard Medical School. Her work focuses on improving care for LGBTQ populations via clinical innovation, educational leadership, and quality improvement research. Dr. Potter is a founding member of the Association of American Medical Colleges' Advisory Committee on Sexual Orientation, Gender Identity and Sex Development for which she has co-authored its groundbreaking medical education guideline.



Vijaya Ramesh, Ph.D.

Dr. Ramesh is Professor of Neurology at Massachusetts General Hospital. Her research is focused on understanding the molecular mechanism of tumor suppressor syndromes, Neurofibromatosis 2 (NF2) and Tuberous Sclerosis Complex using patient-derived cells, to identify novel drug targets. Her lab work on NF2 has directly translated to clinical trials for NF2.



Gregory W. Randolph, M.D.

Dr. Randolph is Professor of Otolaryngology at Massachusetts Eye and Ear where he is Director of the Division of General Otolaryngology and the Division of Thyroid and Parathyroid Endocrine Surgery. His research is focused on recurrent laryngeal nerve monitoring during thyroid cancer surgery. He has also led thyroid surgical missions to Russia, China, Kenya, India and in the Chernobyl region of the Ukraine.



Eric S. Rosenberg, M.D.

Dr. Rosenberg is Professor of Pathology at Massachusetts General Hospital where he serves as the Director of the Clinical Microbiology Laboratory and is the Editor of the Case Records of the Massachusetts General Hospital of the *New England Journal of Medicine*. He is a recognized leader in the immunopathogenesis of acute HIV-1 infection and HIV diagnostics. His work has contributed to our understanding of how the diagnosis and treatment of individuals with acute HIV infection results in preservation of HIV-specific immune responses which may ultimately be important in the immunologic control of virus.



Adrian Salic, Ph.D.

Dr. Salic is Professor of Cell Biology at Harvard Medical School. His research focuses on dissecting signal transduction in primary cilia, and on developing chemical methods for microscopy. His findings contributed to elucidating critical molecular mechanisms of the Hedgehog and polycystic kidney disease signaling pathways, and introduced novel probes for imaging nucleic acids, proteins and lipids.



Marc L. Schermerhorn, M.D.

Dr. Schermerhorn is Professor of Surgery at the Beth Israel Deaconess Medical Center where he is Chief of the Division of Vascular and Endovascular Surgery. He is renowned for endovascular and open surgery for complex aortic aneurysms and dissection. His research focuses on comparative effectiveness of open and endovascular repair of aortic aneurysms and other vascular pathology.



Ralph Scully, Ph.D., M.B.B.S.

Dr. Scully is Professor of Medicine at the Beth Israel Deaconess Medical Center. He is a pioneer in elucidating the relationships between defective DNA repair, genomic instability and hereditary breast and ovarian cancer. His research has revealed fundamental insights into the mechanisms that govern these relationships and has identified new pathways for therapy of breast and ovarian cancer.



Alice T. Shaw, M.D., Ph.D.

Dr. Shaw is Professor of Medicine at Massachusetts General Hospital where she is Director of the Center for Thoracic Cancers. She is an internationally renowned leader in the field of molecularly targeted therapies and drug resistance. Her clinical and translational research has helped to establish new treatment paradigms for patients with lung cancer and have led to FDA approval of multiple new cancer therapies.



Lewis B. Silverman, M.D.

Dr. Silverman is Professor of Pediatrics at the Dana-Farber Cancer Institute where he is Director of the Dana-Farber and Boston Children's Hospital Pediatric Hematologic Malignancy Program. He is a recognized leader in childhood leukemia, and has led several clinical trials to improve outcomes for children and adolescents with acute lymphoblastic leukemia. His research has focused on identifying prognostically distinctive patient subsets via genomics and more sensitive measures of early treatment response.



Barbara L. Smith, M.D., Ph.D.

Dr. Smith is Professor of Surgery at Massachusetts General Hospital where she is Director of the Breast Program. She has used microanatomy approaches to develop novel surgical techniques including nipple sparing mastectomy techniques that have improved surgical outcomes for women who require mastectomy for cancer or risk reduction. She is currently evaluating a cathepsin-activatable fluorescent contrast agent and detection device for rapid identification of residual tumor during breast lumpectomy surgery.



Scott B. Snapper, M.D., Ph.D.

Dr. Snapper is Professor of Medicine at Brigham and Women's Hospital where he is Director of the Inflammatory Bowel Disease Center and at Boston Children's Hospital. His research is focused on understanding the molecular mechanisms regulating both the adaptive and innate immune system in modulating mucosal homeostasis and intestinal inflammation. His work has led to the identification of novel genes and pathways regulating inflammatory bowel disease and the development of targeted therapeutic approaches for these diseases.



Mary-Ellen Taplin, M.D.

Dr. Taplin is Professor of Medicine at the Dana-Farber Cancer Institute where she is Director of Clinical Research for the Lank Center for Genitourinary Oncology and a Chair of the Executive Committee of Clinical Research. She has been a leader in prostate cancer clinical trials and translational science. Her work has increased the understanding of mechanisms of prostate cancer response and resistance to androgen deprivation and remains integral in application of next generation hormone therapy in prostate cancer.



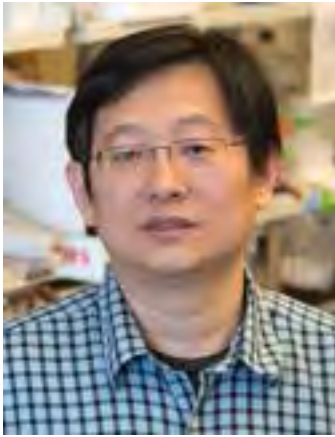
Susan E. Waisbren, Ph.D.

Dr. Waisbren is Professor of Pediatrics at Boston Children's Hospital, where she serves as the psychologist for the Metabolic and Genetics Clinics and Director of the New England Consortium of Metabolic Programs. Her clinical and research efforts focus on neuropsychological outcomes in metabolic and other genetic disorders and development of patient support programs to enhance adherence to medical recommendations. Her work has been incorporated in international treatment guidelines and has led to the identification of neuropsychological outcome variables for clinical trials.



Da-Zhi Wang, Ph.D.

Dr. Wang is Professor of Pediatrics at Boston Children's Hospital. He is a recognized leader in the study of heart development, cardiac function and cardiovascular disease. His work has contributed to the understanding of the molecular mechanisms by which non-coding RNAs regulate gene expression and function in the cardiovascular system and skeletal muscle.



Wenyi Wei, Ph.D.

Dr. Wei is Professor of Pathology at the Beth Israel Deaconess Medical Center. His research is focused on illustrating how misregulated phosphorylation and ubiquitination events lead to aberrant cell cycle and tumorigenesis. He is further exploring therapeutic intervention strategies to combat cancer and other human diseases.



Carl-Fredrik Westin, Ph.D.

Dr. Westin is Professor Radiology at Brigham and Women's Hospital where he is the Director of the Laboratory of Mathematics in Imaging. His research is focused on the application of mathematical theory and modeling to medical imaging applications with a focus on neuroimaging. Most recently he has been developing novel Magnetic Resonance Imaging techniques that will enable increased sensitivity and specificity for the study of the *in vivo* human brain's cellular microstructure.