



## 2019 Recently Appointed Professors

**Appointed since April 1, 2019 through October 31, 2019**

Faculty of Medicine reception held on December 9, 2019



**Elena Aikawa, MD, PhD**

Dr. Aikawa is Professor of Medicine at Brigham and Women’s Hospital, where she is Founding Director of the Heart Valve Translational Research Program and Associate Head of the Section of Cardiovascular Life Sciences. Her research focuses on developing new therapies to prevent and cure calcific aortic valve disease, which has no treatment options other than valve replacement. She has been at the forefront in the discovery of inflammation-dependent mechanisms of cardiovascular calcification, identified calcifying extracellular vesicles as a precursor of microcalcification, and pioneered a systems approach to explore novel therapeutic targets for heart valve disease.



**Stephen Bartels, MD, MS**

Dr. Bartels is Professor of Medicine at Massachusetts General Hospital, where he is the Director of the Mongan Institute. His research and mentoring activities include developing, testing, and implementing interventions focused on complex health conditions and health disparities, co-occurring physical and mental disorders, health care management, health coaching, health promotion, aging and geriatrics, and automated telehealth and mobile technology. His research has established the effectiveness of prevention and treatment interventions for complex co-occurring physical and mental health conditions and is currently focused on spreading, scaling, and sustaining these interventions through implementation research.



**Jonathan Bean, MD, MS, MPH**

Dr. Bean is Professor of Physical Medicine and Rehabilitation at Spaulding Rehabilitation Hospital and serves as the Director of the New England Geriatric Research, Education, and Clinical Center at the VA Boston Healthcare System. His clinical care and research focus on discovering risk factors, identifying screening tools, and developing new models of rehabilitative care that facilitate the prevention of functional decline among older adults. His work has led to new models of “Prehabilitative” Care among both civilian and veteran populations.



**Chinfai Chen MD, PhD**

Dr. Chinfai Chen is Professor of Neurology at Boston Children’s Hospital. Her research focuses on identifying the cellular and molecular mechanisms that regulate the development and plasticity of neuronal circuits in the brain. Her work has contributed to a transformation in our understanding of the role of the thalamus in information processing and cognition.



**Dipanjan Chowdhury, PhD**

Dr. Chowdhury is Professor of Radiation Oncology at the Dana-Farber Cancer Institute, where he is Chief of the Division of Radiation and Genome Stability. His primary research focuses on deciphering the cellular response to DNA damage and identifying novel factors that contribute to genomic stability including non-coding RNAs, proteins and RNA-binding proteins. He has also conducted translational research and has developed a platform to use circulating microRNAs as non-invasive biomarkers for various pathological conditions, including early detection of cancer.



**Simon Dove, PhD**

Dr. Dove is Professor of Pediatrics at Boston Children’s Hospital. His research is focused on understanding mechanisms of virulence gene regulation in pathogenic bacteria. His work has unveiled novel regulatory mechanisms for second messengers, small RNA species, as well as RNA-binding proteins in these organisms, while also generating broadly applicable genetic tools.



**Rose Du, MD, PhD**

Dr. Du is Professor of Neurosurgery at Brigham and Women’s Hospital and Director of Cerebrovascular Surgery. Her research focuses on the genetics and epidemiology of cerebral aneurysms, stroke, and cerebral vascular malformations. She has pioneered the use of machine learning with large-scale electronic medical records for risk stratification in cerebrovascular diseases, particularly cerebral aneurysms, and has developed methods for the analysis of next-generation sequencing data.



**Barbara Dworetzky, MD**

Dr. Dworetzky is Professor of Neurology at Brigham and Women’s Hospital and Chief of the Epilepsy Division and Director of the Edward B. Bromfield Epilepsy Program. She is a recognized leader in psychogenic nonepileptic seizures. Her research has focused on improving clinical outcomes through education around communication and treatment.



**Joseph T. Giacino, PhD**

Dr. Giacino is Professor of Physical Medicine and Rehabilitation at Spaulding Rehabilitation Hospital, where he directs Rehabilitation Neuropsychology, the Disorders of Consciousness Program, and the Spaulding-Harvard Traumatic Brain Injury Model System. His clinical and research activities center on developing and applying high-precision brain injury assessment procedures and novel treatment interventions. His ground-breaking work in standardized neurobehavioral assessment and neuromodulatory treatment interventions led to the development of a widely-used assessment measure known as the Coma Recovery Scale-Revised, the description of a new clinical syndrome called the “minimally conscious state”, the only effective treatment for traumatic disorders of consciousness, and new practice guidelines for clinical management of patients with disorders of consciousness.



**Robert P. Giugliano, MD**

Dr. Giugliano is Professor of Medicine at Brigham and Women's Hospital, where he is a Senior Investigator with the TIMI Study Group. He is a cardiovascular medicine physician and an expert in clinical trials with a focus in novel lipid therapies and antithrombotics. His most important contributions include leadership roles in clinical trials and related publications that led to the approval for clinical use and/or guideline recommendations related to evolocumab, ezetimibe, edoxaban, and epitfibatide.



**David C. Glahn, PhD**

Dr. Glahn is Professor of Psychology in the Department of Psychiatry at Boston Children’s Hospital, where he is Associate Chief for Research. He is a recognized leader in the study of genetic and environmental influences on brain structure and function in health and disease. His work has contributed to the understanding how specific genetic mutations predispose to affective and psychotic disorders in children and adults.



**Wolfram Goessling, MD, PhD**

Dr. Goessling is Professor of Medicine at Massachusetts General Hospital, where he is Chief of the Gastrointestinal Unit. He is Co-Director of the Harvard-MIT Program in Health Sciences and Technology and the Advisory Dean of the Irving M. London Society at HMS. A trained oncologist and gastroenterologist, he focuses clinically on the care of patients with hepatobiliary cancers, while, in his research, he seeks to elucidate the molecular mechanisms that regulate liver development, regeneration, and cancer formation. His work has identified novel cancer genes and important signaling pathways that enhance proliferation of stem cell populations and has led to early-phase clinical trials.



**Mai P. Hoang, MD**

Dr. Hoang is Professor of Pathology at Massachusetts General Hospital, where she is the Medical Director of the Immunohistochemistry Laboratory. Her clinical expertise is diagnostic dermatopathology and her scholarly research has been focused on the role of immunohistochemistry in improving the diagnosis of skin tumors. Her findings have affected clinical care of many patients with skin tumors around the country and abroad.



**Sun Hur, PhD**

Dr. Hur is Professor of Biological Chemistry and Molecular Pharmacology at Boston Children's Hospital. Her lab is interested in the molecular mechanisms by which the vertebrate immune system discriminates between self and non-self molecules. Her previous work revealed how the innate immune system recognizes foreign nucleic acids during microbial infection and activates antiviral signaling pathways through aggregate-like macromolecular assemblies.



**Christopher Kabrhel, MD, MPH**

Dr. Kabrhel is Professor of Emergency Medicine at Massachusetts General Hospital and Director of the Center for Vascular Emergencies. He is a recognized leader in the epidemiology, diagnosis, and treatment of acute venous thromboembolism. His work developing new multidisciplinary treatment models has advanced the standard of care for patients with life-threatening pulmonary embolism around the world.



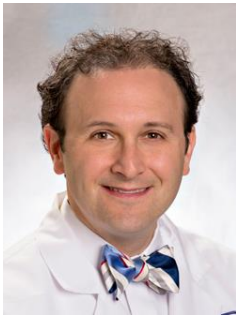
**Sanjeeva P. Kalva, MD**

Dr. Kalva is Professor of Radiology at Massachusetts General Hospital, where he is Chief of the Division of Interventional Radiology. His clinical and research interests have focused on minimally invasive therapy of liver cancer, portal hypertension, venous thromboembolic disease, and pulmonary arteriovenous malformations. His contributions have led to better understanding of the role of intraarterial therapies for the management of advanced liver cancer and the role of various inferior vena cava filters in the management of deep vein thrombosis and pulmonary embolism.



**John F. Kelly, PhD**

Dr. Kelly is Professor of Psychology in the Department of Psychiatry at Massachusetts General Hospital, where he is the Founder and Director of the Recovery Research Institute and Associate Director of the Center for Addiction Medicine. He is recognized for his work on substance-use-disorder treatment and recovery, understanding mechanisms of behavior change, and reducing stigma and discrimination associated with addiction. His empirical work examining the effects of language on implicit bias and stigma in addiction care has led to national changes in the terminology and conceptualization of addiction and its treatment.



**Aaron S. Kesselheim, MD, JD, MPH**

Dr. Kesselheim is Professor of Medicine at Brigham and Women's Hospital, where he is the Director of the Program on Regulation, Therapeutics, and Law (PORTAL). His research focuses on intersections among prescription drugs and medical devices, patient health outcomes and regulatory practices, and the law. His work has helped define the operation of the prescription drug market and has contributed directly to recent policy changes intended to promote the development of transformative drugs, their FDA approval, their evidence-based use, and their availability at a reasonable cost to the patients who depend on them.



**Heung Bae Kim, MD**

Dr. Kim is Professor of Surgery at Boston Children's Hospital, Director of the Pediatric Transplant Center, and Surgical Director of the Liver, Intestine, Multivisceral, and Kidney Transplant Programs. He is a surgical innovator who has developed several operations including the Serial Transverse Enteroplasty (STEP) Procedure. This procedure is used around the world to treat patients with short-bowel syndrome.



**Tobias Loddenkemper, MD**

Dr. Loddenkemper is Professor of Neurology at Boston Children’s Hospital and Director of Clinical Research for the Division of Epilepsy. He is a renowned expert in pediatric epilepsy whose work focuses on discovering a relationship between biomarkers, seizure periodicity and novel processes that set the stage for epilepsy in the developing brain. He aims to provide novel approaches to rational monitoring and treatment for patients with difficult to treat seizures and status epilepticus.



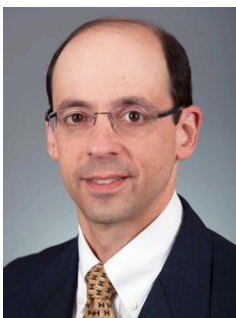
**Nilesh M. Mehta, MD**

Dr. Mehta is Professor of Anaesthesia at Boston Children’s Hospital, where he is Director of Quality and Outcomes and Director of Critical Care Nutrition in the Division of Critical Care Medicine. His research interests have focused on the metabolic aspects and nutritional requirements during critical illness. Using clinical and translational models, he has conducted studies that have described energy and protein metabolism and helped guide best practices for enteral and parenteral nutrition in the critically ill patient.



**Raul Mostoslavsky, MD, PhD**

Dr. Mostoslavsky is Professor of Medicine at the Massachusetts General Hospital. He has pioneered the understanding of the biological functions of mammalian sirtuins, in particular the histone deacetylase SIRT6, which play critical roles in glucose metabolism, DNA repair and cancer. His work provided some of the first insights into the crosstalk between metabolism and epigenetics.



**Andrew J. Powell, MD**

Dr. Powell is Professor of Pediatrics at Boston Children’s Hospital, where he is Chief of the Cardiac Imaging Division. His research has focused on magnetic resonance imaging, including the development of quantitative techniques to measure blood flow, liver and myocardial iron, and myocardial fibrosis in children. His efforts are directed toward generating high-resolution, time-resolved 3D images to simplify the examination, produce richer data, and promote further dissemination of MRI.



**Benjamin A. Raby, MDCM, MPH**

Dr. Raby is Professor of Pediatrics at Boston Children’s Hospital and Chief of the Division of Pulmonary Medicine. He is recognized as an expert on the genetics and genomics of asthma and as a leader in the integration of genetic diagnostics in the clinical practice of pulmonary medicine. His work has led to the identification of several asthma susceptibility genes and novel pathways underlying poor asthma control.



**Dorene M. Rentz, PsyD**

Dr. Rentz is Professor of Neurology at Brigham and Women’s Hospital and Clinical Co-Lead of the Harvard Aging Brain Study. Her clinical and research interests have focused on early detection of cognitive changes related to preclinical Alzheimer’s disease. She is recognized for the development of cognitive outcome measures for secondary prevention trials and demonstrating the feasibility of mobile technology for assessing cognition in the home environment.



**Natalia S. Rost, MD, MPH**

Dr. Rost is Professor of Neurology at Massachusetts General Hospital and Chief of the Stroke Division. She is a clinician-scientist and an internationally recognized expert on neuroimaging markers of cerebrovascular disease, stroke genetics, and outcome prediction in patients with acute stroke. Her clinical research has had a major impact in the field of stroke and may lead to interventions that will improve the health outcomes for patients suffering from this devastating disease.



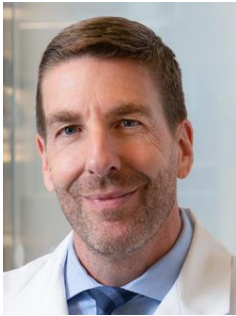
**Tamara D. Rozental, MD**

Dr. Rozental is Professor of Orthopedic Surgery at the Beth Israel Deaconess Medical Center, where she is Chief of the Division of Hand and Upper Extremity Surgery. She is a recognized leader in the study of fragility fractures of the upper extremity. Her work has contributed to the understanding and treatment of skeletal fragility in fractures of the distal radius with an emphasis on preventing future fractures.



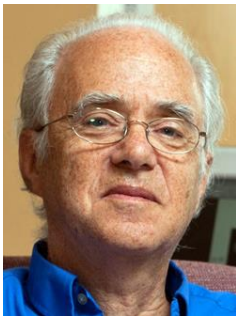
**Frank A. J. L. Scheer, PhD**

Dr. Scheer is Professor of Medicine at Brigham and Women’s Hospital and Director of the Medical Chronobiology Program. His research is focused on understanding the impact of the endogenous circadian system as well as its misalignment with the sleep/wake and fasting/feeding cycle—as occurs in shift work and jet lag—on glucose control, energy balance, the immune system, and cardiopulmonary function in humans. This work has contributed to understanding of the contribution of this biological clock to diurnal rhythms in disease severity, such as morning heart attacks, evening impaired glucose tolerance, and nocturnal asthma, as well as of the adverse consequences of circadian misalignment on cardiometabolic health and—importantly—its countermeasure development.



**Clemens Scherzer, MD**

Dr. Scherzer is Professor of Neurology at Brigham and Women’s Hospital, where he is the Founding Director of the American Parkinson’s Disease Association Advanced Center for Parkinson’s Disease Research and the Precision Neurology Program. He is a pioneer in precision neurology, applying massive data streams from genomes, transcriptomes, and longitudinal cohorts to develop predictive and preventive health care for Parkinson’s disease. His research has led to the discovery of genetic drivers, biomarkers, and therapeutic targets for Parkinson’s and is inspiring clinical trials.



**Robert Stickgold, PhD**

Dr. Stickgold is Professor of Psychiatry at the Beth Israel Deaconess Medical Center. He studies the roles of sleep and dreaming in the off-line processing of memory and emotions. His research has played a seminal role in discovering the role of sleep-dependent memory evolution in the strengthening, consolidation and integration of new memories, as well as the factors that determine both which memories receive such processing and the form such processing takes, while his work on neurocognitive function advances our understanding of this phenomenon.