Prin Amorapanth, MD, PhD is a physician-scientist at Rusk Rehabilitation, NYU-Langone Medical Center. As an undergrad, he worked with noted emotion researcher Joseph LeDoux at NYU characterizing the neural circuits underlying conditioned fear, resulting in several publications, the most notable of which was a double dissociation of reflexive and active responses that was published Nature Neuroscience. As a combined MD/PhD student in the lab of cognitive neurologist Anjan Chatterjee at the University of Pennsylvania, he pursued training in the methodology of cognitive neuroscience, including functional imaging, neuropsychological testing, and lesion-symptom mapping, which he brought to bear on the question of how the brain represents visuospatial relationships and concepts. As a resident in physical medicine and rehabilitation at the Rehabilitation Institute of Chicago, he was exposed first hand to crucial clinical issues faced by patients with brain injury. This experience prompted him to further develop his expertise in the clinical diagnosis and management of TBI by returning to NYU to pursue a fellowship in brain injury medicine, where he has stayed on as faculty. His current research interests include identifying markers of visuospatial impairment following acquired brain injury as well as the use of non-invasive brain stimulation as both a therapeutic and investigational tool for maximizing rehabilitation and better understanding mechanisms of recovery following brain injury.

David (Dave) Arnold, MD, completed his medical degree at the University of Louisville and his PM&R residency training at the University of Louisville and Frazier Rehabilitation Institute. He subsequently completed fellowship training in neuromuscular medicine at the Ohio State University and was one of the first physiatrists in the country with accredited subspecialty training and board-certification in neuromuscular medicine. From 2009 to 2022, Dr. Arnold was faculty at The Ohio State University (OSU) where he was a tenured full professor and founded and directed the Center for Neurobiology of Healthy Aging and Resiliency. Dr. Arnold’s research program is primarily focused on translational neuromuscular physiology in health, aging, and disease. As part of a multidisciplinary team at the Ohio State University and Nationwide Children’s Hospital, he was involved in the preclinical development and then the first-in-human gene therapy study for spinal muscular atrophy. He has published more than 100 articles since 2010 that have been cited nearly 5,000 times. He has received multiple grants as PI/MPI from NIH, Department of Defense, and other funding sources. In the fall of 2022, Dr. Arnold accepted a position at the University of Missouri to direct their NextGen Precision Health Initiative which represents the single largest research investment in the history of University of Missouri. Prior to his involvement in the RMSTP program, Dr. Arnold had limited exposure to research, and, in fact, it wasn’t until his second year as clinical faculty that he published his first paper (as a middle author). He credits much of his success in transitioning as a physician-turned-physician-scientist and to research independence to the RMSTP and the RMSTP mentors.
Scott Barbuto, MD, PhD is an Assistant Professor in the Department of Physical Medicine and Rehabilitation at Columbia Medical Center. He has a KL2 Career Development Award where he is studying the impact of balance and aerobic training on individuals with degenerative cerebellar disease.

Joline E. Brandenburg, MD is an Assistant Professor of Physical Medicine and Rehabilitation in the area of Pediatric Physiatry, Mayo Clinic. She is an honored member of the PM&R faculty, having received recognition most recently from the American Academy of Cerebral Palsy and Developmental Medicine, the American Academy of Physical Medicine and Rehabilitation, and the Association of Academic Physiatrists.

Robynne Braun, MD, PhD is an Assistant Professor at the University of Maryland. Her research focuses on rehabilitation of the upper extremity after stroke, and uses neurophysiologic (TMS, EMG), behavioral (kinematic) and neuroanatomic measures (MRI/tractography) to define detailed phenotypes of stroke recovery as they align with genetic and genomic biomarkers.
Anthony Burns, MD, MSc, graduated from the Yale University School of Medicine in 1994, and afterwards completed combined residency training in Internal Medicine and Physical Medicine & Rehabilitation at the Johns Hopkins University, followed by a SCI fellowship at the University of Alabama at Birmingham. He is a past participant in the Rehabilitation Medicine Scientist Training Program, sponsored by the Association of Academic Physiatrists (AAP) and funded by the U.S. National Institutes of Health. From 2000 through 2007, he was Assistant Professor, Department of Rehabilitation Medicine, Thomas Jefferson University, Philadelphia PA; Assistant Director of the Regional SCI Center of the Delaware Valley; and adjunct Assistant Professor, Department of Neurobiology and Anatomy, Drexel University College of Medicine, Philadelphia PA. In 2007, Dr. Burns joined the University Health Network - Toronto Rehabilitation Institute Spinal Cord Rehabilitation Program, the largest program of its kind in Canada, and was the Medical Director from 2007 – 2012. Currently he is an Associate Professor in the Division of Physiatry, Department of Medicine, University of Toronto, and Affiliate Scientist, Neural Engineering and Therapeutics (NET) Team of the KITE (Knowledge Innovation Talent Everywhere) Research Institute. His clinical and research interests focus on the determination and measurement of outcomes following SCI, as well as the clinical management of spinal cord injuries and related secondary complications.

Alejandra Camacho-Soto, MD received her medical degree from the University of Pittsburgh where she completed a T32 pre-doctoral research fellowship under the mentorship of Dr. Sowa, investigating autonomic nervous system dysfunction in chronic low back pain in older adults. She completed her residency training in Physical Medicine and Rehabilitation at Northwestern McGaw Medical Center/Rehabilitation Institute of Chicago where she served as chief resident from 2014-2015 and was awarded the Rehabilitation Medicine Scientist Training Program (RMSTP) K12 Award. She began the RMSTP at Washington University School of Medicine (WUSM) in the Department of Neurology, Division of Neurorehabilitation in July of 2015. She completed a Master of Population Health Sciences (MPHS) degree in 2018 at WUSM with a focus on health services and epidemiology of neurodegenerative diseases using large population-based administrative data. Her research focuses on using Medicare claims data to explore the risk of trauma in elderly populations with neurodegenerative diseases such as Parkinson’s disease and to identify critical predictors that may be used as future treatment targets.
Ellen Casey, MD is an Associate Attending Physiatrist in the Department of Physiatry and the Women's Sports Medicine Center at the Hospital for Special Surgery. She is also an Associate Professor of Clinical Rehabilitation Medicine at Weill Cornell Medical College. Her clinical practice focuses on the conservative treatment of acute sports medicine injuries and spine disorders. Dr. Casey has been awarded numerous grants to support her research, including K12 and RO1 grants from the National Institutes of Health and foundation awards from the American Academy of Physical Medicine and Rehabilitation.

Pablo Celnik, MD, PhD, is the Lawrence Cardinal Shehan Professor and Director of the Physical Medicine and Rehabilitation Department at Johns Hopkins Medicine, and the Physiatrist-in-Chief in the Johns Hopkins Hospital. He is also the Co-Director of the Sheikh Khalifa Stroke Institute, the Director of the Human Brain Physiology and Stimulation Laboratory, and leads the Noninvasive Brain Stimulation (NIBS) Program at the Johns Hopkins Department of Physical Medicine and Rehabilitation. Dr. Celnik also holds secondary appointments in the Departments of Neurology and Neuroscience.

A native of Argentina, Dr. Celnik received his medical degree from the University of Buenos Aires School of Medicine. He completed his residency in neurology in Argentina, a fellowship in neurological rehabilitation at the University of Maryland and research fellowships in the labs of Dr. Mark Hallett and Dr. Leonardo G. Cohen at the National Institute of Neurological Disorders and Stroke (NINDS), National Institutes of Health (NIH). In 2003, he completed PM&R residency training at Johns Hopkins, where he remained since as a faculty member in the Department of PM&R. In 2011, Dr Celnik became the Vice Chair for research and in 2016, after a national search, he was appointed Director of the Department of PMR at Johns Hopkins.

Dr. Celnik has an extensive publication track record with more than 100 peer review publications in high regarded scientific journals and more than 10 chapters and books. He has been continuously funded since 2003 for his research in motor learning, mechanisms of motor recovery following stroke and brain machine interface studies.

Dr. Celnik is internationally-recognized for his expertise and research in neurologic rehabilitation, particularly with stroke and traumatic brain injury. He has received numerous prestigious awards, including the "The Presidential Early Career Award for Scientists and Engineers (PECASE)", the highest honor bestowed by the U.S. government on outstanding scientists and engineers beginning their independent careers. In 2021, Dr. Celnik was inducted into the National Academy of Medicine.
**Eric Chang, MD** completed his B.A. in East Asian Studies at Yale University, New Haven, CT in 1999. He completed his medical degree from Albert Einstein College of Medicine, Bronx, NY in 2006 with a Distinction in Musculoskeletal Disorders. He spent 2 years during that period working in Dr. Paul E. DiCesare’s musculoskeletal laboratory at New York University – Hospital for Joint Disease, New York, NY. Subsequently, he completed his residency at UCLA/ Greater Los Angeles Veteran Affairs Residency Program in Los Angeles. He then completed an ACGME Pain Medicine Fellowship at University of California, Irvine to pursue his research interest in neuropathic pain and spasticity in the Spinal Cord Injured population. His primary mentor, Dr. Z. David Luo, is a well established investigator in the mechanisms of neuropathic pain. His co-mentor, Director Dr. Oswald Steward of the Reeves-Irvine Research Center, is renowned in the field of Spinal Cord Injury and also a seasoned mentor of previous clinical fellows. Dr. Gwen Sowa, from the University of Pittsburgh, adds her expertise to his mentoring team as a Spinal Cord Injury physician-scientist and as a researcher on degenerative mechanisms of the spine. Dr. Chang will provide clinical service at the UCI Multi-disciplinary Pain Clinic, which serves as a model system for an integrated MSK, pain management, and electromyography clinic in Orange County.

**Abby Cheng, MD** is an Assistant Professor in sports medicine at the Washington University in St. Louis School of Medicine. She is funded by a K23 career development award to identify modifiable risk factors and predictors of successful conservative management in patients with pre-arthritic hip disorders such as femoroacetabular impingement, acetabular dysplasia, and acetabular labral tears. Her research interests also include investigation into the interplay between musculoskeletal conditions and sociodemographics, lifestyle factors, inflammation, and biopsychosocial health.
Tae Chung, MD graduated in 2002 with a Doctor of Medicine from the College of Medicine, Catholic University of Korea. After serving in the Republic of Korea Army as an Army Surgeon (First Lieutenant), he traveled to US, and completed a preliminary internship in 2008 at Montefiore Hospital of the Albert Einstein School of Medicine, Bronx, NY. He then joined the Department of Physical Medicine and Rehabilitation at The Johns Hopkins University School of Medicine as a resident from 2008-2011. He then completed clinical (2012) and research (2013) fellowships in Neuromuscular Medicine in the Department of Neurology at Johns Hopkins. He then completed the fellowship in Spinal Cord Injury Medicine at Kennedy-Krieger Institute in June, 2014. Dr. Chung is interested in understanding the biology of aging in neuromuscular system. In his K08-funded study, he investigates the involvement of tryptophan degradation pathway in age-related muscle weakness and frailty under the mentorship of under the mentorships of Dr. Jeremy Walston, the director of Pepper Older American Independence Center (OAIC), and Dr. Ahmet Hoke, the Director of Neuromuscular Division at Johns Hopkins. Clinically, he is interested in exercise intervention for myositis and various neuromuscular disorders. Recently, he established a POTS (postural orthostatic tachycardia syndrome) clinical program, a multidisciplinary clinic for patients with POTS, at Johns Hopkins Medicine.

Brad Dicianno, MD, is a physiatrist and bioengineer. He is a Professor and Endowed Research Chair in the Department of Physical Medicine and Rehabilitation at the University of Pittsburgh School of Medicine. He serves as the Medical Director and COO of the Human Engineering Research Laboratories. He is the Medical Director of the UPMC Center for Assistive Technology and the Director of the UPMC Adult Spina Bifida Clinic. His clinical interests are in the areas of spina bifida and assistive technology. His research interests lie at the intersection of disability, assistive technology, and value-based care. Specifically, he is interested in studying how technologies can improve outcomes for people with disability and also improve the delivery of healthcare and community-based services. Relevant technologies are mobile health, telemedicine, electronic medical records interoperability, and rehabilitation engineering devices such as wheelchairs.
James Eckner, MD, MS graduated from Case Western Reserve University’s School of Medicine in 2003 and completed his residency training in PM&R at the University of Michigan in 2007. Since that time he has held a faculty position in the UM Department of PM&R. As a junior faculty member, he also earned a Master of Science degree in 2009 from the University of Michigan in Clinical Research Design and Statistical Analysis through the UM On Job-On Campus Master of Science Program. His area of clinical and research interest is mild traumatic brain injury, with a particular emphasis on mTBI, or concussion, in athletes. He has received professional mentoring from Drs James K. Richardson in the Department of PM&R and James A. Ashton-Miller in the Department of Mechanical Engineering. Dr. Eckner’s RMSTP project investigated the role of neck strength and head movement capacity measures in concussion susceptibility. His ongoing research addresses many aspects of concussion including injury prevention through neck strengthening exercise, as well as injury assessment, management, and outcomes. The ultimate goals of his work are to reduce athletes’ risk of sustaining concussion and to improve concussion management and outcomes. Dr. Eckner is now an Associate Professor in PM&R at the University of Michigan and Director of Clinical Research for the Michigan NeuroSport and PM&R Concussion Programs. He is also the Director of the University of Michigan PM&R Resident Research Program and the Associate Director for Research of the Michigan Concussion Center.

Nathan Evanson, MD, PhD obtained his medical degree and PhD from the Physician Scientist Training Program at the University of Cincinnati and completed a combined residency in pediatrics and PM&R in Cincinnati. He is currently a faculty member in the division of Pediatric Rehabilitation Medicine at Cincinnati Children’s Hospital. His clinical specialty is rehabilitation of brain injury, and he directs the multi-disciplinary acquired brain injury clinic at Cincinnati Children’s Hospital (a joint effort of PM&R, neurology, and neuropsychology). His RMSTP project, investigating the role of environment on outcomes after experimental closed head traumatic brain injury (TBI) using a mouse model, led to the development of a new model for studying indirect traumatic optic neuropathy. Current research interests are centered on using animal models of traumatic brain injury to understand pathophysiology of traumatic optic nerve injury and metabolic changes in chronic TBI.
Janna Friedly, MD grew up in upstate New York, but took the first opportunity she could to move west, attending college at Stanford University. She obtained her medical degree from Oregon Health Sciences University and residency in PM&R at the University of Washington. She completed the RMSTP K12 program under the mentorship of Drs. Rick Deyo and Leighton Chan conducting health services research relating to epidural steroid injections for the treatment of low back pain in 2008. She is currently an Associate Professor and Vice Chair for Clinical Affairs at the University of Washington in the Department of Rehabilitation Medicine. Her primary research interests are in health services and outcomes research related to low back pain and amputation-related pain. Clinically, she works at Harborview Medical Center directing the limb preservation and amputation service. Her other academic interests are in quality improvement, medical ethics, and teaching evidence based medicine to medical students and residents. She also serves as the Editor in Chief of PM&R, the official journal of the AAPMR.

Molly Fuentes, MD, MS received her undergraduate degree from Stanford University in 2003 and her medical degree from the University of Michigan in 2008. She completed Physical Medicine and Rehabilitation residency and served as Chief Resident at the University of Washington in 2012. After finishing a clinical fellowship in Pediatric Rehabilitation Medicine at Seattle Children’s Hospital in 2014, Dr. Fuentes completed a two year Pediatric Injury Research Program research fellowship under the mentorship of Dr. Frederick Rivara at the Harborview Injury Prevention and Research Center. During her postdoctoral research fellowship, Dr. Fuentes earned an MS in Health Services from the University of Washington School of Public Health. Dr. Fuentes is an Assistant Professor with the University of Washington Department of Rehabilitation Medicine, with a clinical practice at Seattle Children’s Hospital and outreach clinics in Anchorage, including at Alaska Native Medical Center. Dr. Fuentes’ research focuses on health disparities and the cultural context of disability and rehabilitation interventions. Her long term goals include using stakeholder-engaged research methods to deliver culturally-appropriate rehabilitation interventions to American Indian and Alaska Native children with functional impairments.
Vincent Gabriel, MD, FRCPC graduated from the University of Saskatchewan College of Medicine in Canada with MD in Distinction and Bachelor's of Science in Medicine degrees in 2000. He completed residency training at the University of Alberta in Physical Medicine and Rehabilitation in 2005. Following residency, Dr. Gabriel worked at The University of Texas Southwestern Medical Center at Dallas and Parkland Memorial Hospital as a consultant physiatrist and clinical services director for the National Institute for Disability and Rehabilitation Research funded North Texas Burn Rehabilitation Model Systems Project. At the same time, Dr. Gabriel completed a Master's degree in The UT Southwestern Clinical Scholar's program. As a participant in the RMSTP, Dr. Gabriel carried out research projects relating to the viscoelastic properties of human skin and scar as well as the genetic response of human skin to burn injury in the development of burn scar.

Dr. Gabriel the Medical Director of the Calgary Firefighter's Burn Treatment Centre in Calgary, Alberta, Canada. His practice is focused on acute wound management and fibrosis in wound healing outcomes. Dr. Gabriel’s research program includes work in regenerative medicine, instrumented measures of wound healing outcomes, burn related disaster management and patient oriented outcomes.

Jay Han, MD is a Professor and Vice Chair in the Department of Physical Medicine and Rehabilitation at the University of California Irvine. He completed his undergraduate studies from the Stanford University with honors, and attended UCSF School of Medicine. He completed his internship and PM&R residency at the University of Washington, and subsequently completed a focused clinical and research fellowship (K12) in neuromuscular disorders. He worked under the guidance of Dr. Jeffrey S. Chamberlain. Dr. Han’s clinical focus is in neuromuscular diseases affecting both adult and pediatric populations, specifically the various muscular dystrophies. His research interests focus on the development of functional outcome measures in patients with neuromuscular disorders as well as research using electrodiagnosis/electromyography (EMGs).
Daniel Herman, MD, PhD completed medical school and his PhD training (Biomedical Engineering) at the University of North Carolina at Chapel Hill. He subsequently completed his PM&R residency at the University of Virginia, and his fellowship in Primary Care Sports Medicine at the University of Florida. He began his career in the Department of Orthopaedics and Rehabilitation at the University of Florida, and is now an Associate Professor and Director of PMR Sports Medicine Research in the Department of Physical Medicine and Rehabilitation at the University of California at Davis. Dr. Herman’s research program is primarily focused on sports injury risk assessment, biomechanics, and prevention, particularly regarding the role of neurocognitive performance in these areas. He also studies the effect of headgear use on risk compensation, head impact biomechanics, and concussion risk. His research has been recognized with several awards, including the American Orthopedic Society for Sports Medicine’s O’Donaghe and Excellence in Research Awards, and the American Medical Society for Sports Medicine’s NCAA Award for Research on Collegiate Athletes.

James Hill, MD, MPH is an Associate Professor in the Department of Physical Medicine & Rehabilitation at the UNC School of Medicine and the Medical Director, Occupational Health, for the University of North Carolina at Chapel Hill. He completed his PM&R residency at UNC Hospitals and a fellowship in Occupational & Environmental Medicine at Yale University. He is Board Certified in both Physical Medicine & Rehabilitation and Preventive Medicine/Occupational Medicine and has a Master’s in Public Health in Chronic Disease Epidemiology from Yale University. His research interests include absenteeism, lost work time and productivity, fitness-for-duty and organizational/economic incentives and their impact on return to work outcomes.
Amy Houtrow, MD, PhD, MPH obtained her MD from Michigan State University and subsequently completed residency training in a combined Pediatrics and Physical Medicine and Rehabilitation program at Cincinnati Children’s Hospital Medical Center and the University of Cincinnati. During her residencies, she also completed an MPH in Health Policy and Management at the University of Michigan. From 2005-2012, she served as the medical director for pediatric rehabilitation at the University of California at San Francisco. In 2012, she completed her PhD in medical sociology. She is now the Endowed Chair for Pediatric Rehabilitation Medicine and Professor in the Department of Physical Medicine and Rehabilitation at the University of Pittsburgh. She is a health services and outcomes researcher focusing on the family impacts of raising children with disabilities as well as disability trends and disparities.

Erik Hoyer, MD is an assistant professor of physical medicine and rehabilitation at the Johns Hopkins University School of Medicine. He graduated summa cum laude and received his master’s degree in computer science from Brandeis University prior to graduating from the Sackler School of Medicine in Tel Aviv, Israel. He completed his internship in internal medicine at North Shore University Hospital in Manhasset, New York, and subsequently finished his residency in physical medicine and rehabilitation from Johns Hopkins University. He excelled during his residency, receiving the Hopkins Healer award twice, and was selected as a trainee to the Rehabilitation Medicine Scientist Training Program in 2010. As Vice Chair for Quality, Safety and Service, he leads efforts to improve patient safety and care at Johns Hopkins, including serving as co-director for the activity and mobility promotion (AMP) program to get patients up and moving in the hospital. Dr. Hoyer’s research interests include quality improvement methods to measure and improve patient mobility in the hospital setting and to study approaches to reduce hospital readmissions.
Prakash Jayabalen, MD, PhD clinical practice focuses on the prevention, diagnosis and treatment of sports injuries in people of all ages. He does have specific clinical and research interests in degenerative joint diseases of the older athlete such as knee osteoarthritis and the management of sports-related concussions. As a clinician-scientist he takes clinical problems he sees in his patients and aims to find innovative solutions for them in the research lab. His research uses biomarker analyses (from urine and/or blood) to develop efficacious exercise regimens for people with musculoskeletal injury or disease. This fits into the future concept of individualized and personalized medicine, using someone's biological profile to find an appropriate exercise program for them. He has multiple ongoing NIH and non-NIH funded research projects with the ultimate goal of optimizing the performance, function and recovery of patients with musculoskeletal disease.

Nanette Joyce, DO earned her D.O. from Touro University College of Osteopathic Medicine as valedictorian in 2004. She completed her residency training in Physical Medicine and Rehabilitation at Michigan State University where she was chief resident from 2007-2008. After completing a year fellowship in neuromuscular disease at the University of California Davis in the Physical Medicine and Rehabilitation department, Dr. Joyce was awarded a stem cell training grant from the California Institute for Regenerative Medicine (CIRM) to develop a cellular therapy for treatment of motor neuron disease. Her mentoring team is led by Dr. Jan Nolta, a leader in the stem cell field and director of the UC Davis stem cell program and Institute for Regenerative Cures. While continuing her research using mesenchymal stem cells, Dr. Joyce will treat patients with neuromuscular diseases as faculty in the UC Davis healthcare system.
Radha Korupolu, MD, MS is an Associate Professor in the Department of Physical Medicine and Rehabilitation, McGovern Medical school, The University of Texas Health Science Center (UTHealth), Houston, TX, and an attending Physician at TIRR Memorial Hermann. Her current research focuses on studying interventions to improve respiratory and functional outcomes after SCI. Her current studies are evaluating outcomes of high vs. low tidal volume mechanical ventilation, mindfulness intervention, and functional electrical stimulation in people with spinal cord injury.

Brad Kurowski, MD is a rehabilitation medicine physician with subspecialty certification in Brain Injury Medicine and Pediatric Rehabilitation Medicine. He is interested in how medical, behavioral, physical therapy, lifestyle, and other interventions, individually and in combination, can be used to optimize brain health and wellness. Currently, Dr. Kurowski is an associate professor and co-director of the Brain Recovery after Injury (BRAIN) Health and Wellness Center at Cincinnati Children’s Hospital Medical Center within the Departments of Pediatrics and Neurology and Rehabilitation Medicine at the University of Cincinnati College of Medicine.

Matthew McLaughlin, MD, currently holds a dual-appointment in the Division of Pediatric Rehabilitation Medicine and Department of Clinical Pharmacology and Therapeutic Innovation at Children’s Mercy - Kansas City. He currently serves as an Associate Professor and the Division Director of Pediatric Rehabilitation Medicine. His current research focus is precision medicine (precision therapeutics) in patients requiring rehabilitation care. Since graduating from the RMSTP, he has maintained NIH-funded research. He has received awards both the Darrell Abernethy Early Career Investigator Award and the Presidential Trainee award from the American Society of Clinical Pharmacology and Therapeutics, the Best Early Career Manuscript Award from the PM&R Journal, and the Early Investigator Award from Children’s Mercy.
David Morgenroth, MD is Professor and Vice Chair for Research in the Department of Rehabilitation Medicine at the University of Washington. He is also Associate Director of the Amputee Rehabilitation Fellowship at VA Puget Sound Health Care System and is a Core Investigator in the VA RR&D Center for Limb Loss and Mobility (CLiMB). His clinical care and research focuses on improving mobility and quality of life in those with anatomic or functional limb loss. Dr. Morgenroth's research has been funded by the NIH, VA and DoD. He has mentored numerous residents, fellows, PhD students and postdocs in PM&R, Rehabilitation Science, and Mechanical Engineering. He is also a dedicated educator on the subjects of amputation rehabilitation and gait biomechanics.

Leslie Morse, DO is Chair of the Department of Rehabilitation Medicine at the University of Minnesota. Her research, as well as her clinical focus, is the care of individuals with SCI, with a long-term goal of developing mechanism-based therapies to prevent and treat SCI-induced osteoporosis. To that end, she is studying the effect of robotic-assisted gait-training on bone health with a clinical trial award from the Department of Defense. Leslie was also the Endowed Medical Director of Research at Craig Hospital and Co-Project Director of the Rocky Mountain Regional Spinal Injury System.

Jared Olson, MD is a brain injury specialist with research in neural engineering, a subset of biomedical engineering. He is board certified in Physical Medicine and Rehabilitation and Brain Injury Medicine. Dr. Olson is faculty at the University of Colorado School of Medicine and was previously at the University of Washington as a resident and later as faculty. He has an MD from the University of Chicago and a BS in Mechanical Engineering from the University of Colorado Boulder. Dr. Olson's RMSTP research mentor was Dr. Jeffrey Ojemann MD, neurosurgeon at the University of Washington.
Sabrina Paganoni, MD, PhD is an Assistant Professor of PM&R at Harvard Medical School and works as a physician scientist at Spaulding Rehabilitation Hospital and at the Healey Center for ALS at Massachusetts General Hospital. Dr. Paganoni’s research focuses on therapy development for ALS. She designed and is currently leading several ALS clinical trials that include novel endpoints and biomarkers and innovative trial designs. She is currently working on the first Platform Trial for ALS.

Dr. Paganoni received her medical degree from the University of Milan, Italy, and her PhD in Neuroscience from Northwestern University. She completed her residency in PM&R at Spaulding Rehabilitation Hospital and fellowship training in Neuromuscular and Electrodiagnostic Medicine in the Harvard Medical School hospital system. Dr. Paganoni published >75 peer-reviewed papers. Her research has been funded by the NIH, foundations, and industry. She received several awards for her work including the NIH Rehabilitation Medicine Scientist Training Program Award (2012), the American Academy of Neurology / ALS Association Three-Year Career Development Award in ALS (2017), and the American Association of Neuromuscular & Electrodiagnostic Medicine Scientific Impact Award (2019).

Preeti Raghavan, MD is an associate professor of physical medicine and rehabilitation in the Johns Hopkins Department of Physical Medicine and Rehabilitation. She obtained her MD degree from Rajah Muthiah Medical College, India. She completed her residency in Physical Medicine and Rehabilitation at Albert Einstein School of Medicine, New York. Dr. Raghavan is pursuing her research fellowship in motor control under the mentorship of Dr. Andrew Gordon at Teachers College, Columbia University. She is studying the kinematic and kinetic features of prehension during functional tasks in normal individuals and patients after stroke. Her research goal is to understand the neural mechanisms underlying the recovery of voluntary motor functions in brain-injured patients.
Monica Rho, MD is an Associate Professor at Northwestern University Feinberg School of Medicine where she serves as the PM&R Residency Program Director and the Chief of Musculoskeletal Medicine for the Shirley Ryan AbilityLab (formerly the Rehabilitation Institute of Chicago). She is the Reva and David Logan Chair of Musculoskeletal Rehabilitation and the Regenstein Chair for Medical Education. She is board-certified in Sports Medicine and Physical Medicine and Rehabilitation (PM&R). She received her undergraduate degree from Northwestern University and completed her medical degree and her residency training at Northwestern University Feinberg School of Medicine. She did her fellowship in Sports Medicine at Washington University in St. Louis, MO. Her research interests include determining neuromuscular control of the hip with abnormal morphology, specifically cam-type Femoracetabular Impingement (FAI). Dr. Rho's goals are to provide the framework for conservative management strategies in managing pre-arthritis hip disorders based on motor control patterns. She also serves as the Team Physician for the US Women's National Soccer Team and accompanied them to the 2019 Women's World Cup in France, where they won the World Cup.

John-Ross (JR) Rizzo, MD, MSCI is a physician-scientist at NYU Langone Health. He is an Associate Professor, serving as the Vice Chair of Equity (DEIA) and Innovation for the Department of Physical Medicine & Rehabilitation, with cross appointments in the Department of Neurology, the Department of Mechanical & Aerospace Engineering, and the Department of Biomedical Engineering at the NYU Tandon School of Engineering. He also services as the Health System Director for Disability Inclusion at NYU Langone. He leads the Visuomotor Integration Laboratory (VMIL), where his team focuses on eye-hand coordination, as it relates to acquired brain injury, and the REACTIV Laboratory (Rehabilitation Engineering Alliance and Center Transforming Low Vision), where his team focuses on advanced wearables for the sensory deprived and benefits from his own personal experiences with vision loss. JR Rizzo obtained his medical degree at New York Medical College and an Alpha Omega Alpha Honors Society Member (Iota Chapter), and subsequently completed his residency with a chief position and fellowship at NYULMC’s Rusk Rehabilitation.
Sophia Miryam Schüssler-Fiorenza Rose, MD, PhD is an Instructor in Genetics at the Stanford School of Medicine. Her research focuses on Precision Health and understanding the health effects of the exposome through use of multiomics technologies. She is particularly interested in understanding the biological effects of prior trauma and stress and how they affect biological responses to current neurological trauma and neurorecovery.

Neil Segal, MD completed a degree in East Asian Studies at Brown University and then pursued medical training at Vanderbilt University Medical School and the Mayo Clinic. He currently has appointments at the University of Kansas as the Dr. George Varghese Professor of Rehabilitation Medicine, where he is Director of Clinical Research and Medical Director of Musculoskeletal Rehabilitation, and at the University of Iowa as an Adjunct Professor of Epidemiology. Along with his K12 mentor, Dr. James Torner, Dr. Segal is a co-Principal investigator in the Multicenter Osteoarthritis Study (MOST), an epidemiological study of risk factors for knee osteoarthritis development and progression. His RMSTP studies related to investigating the mechanism for knee osteoarthritis development in the context of obesity. For these studies, he studied body composition analysis (assessment of fat and muscle deposits), and gait analysis. Through continuing these investigations Dr. Segal established a Clinical Osteoarthritis Research Program to continue to explore the relationships between body structure and human function in order to contribute to a model for considering and measuring disablement in older adults with osteoarthritis. His current research involves clinical trials of rehabilitation interventions and injectable therapies for people with osteoarthritis of the hip, knee and ankle, as well as studies of next-generation imaging for earlier detection of osteoarthritis.
Gwen Sowa, MD, PhD is Professor and Chair in the Department of Physical Medicine and Rehabilitation and Co-Director of the Ferguson Laboratory for Orthopaedic and Spine Research at the University of Pittsburgh, where she also holds joint appointments in the Departments of Orthopaedic Surgery and Bioengineering. She completed her MD/PhD at the University of Wisconsin-Madison, followed by residency training at Northwestern University, Rehabilitation Institute of Chicago.

Using her background in biochemistry, Dr. Sowa currently performs molecular laboratory based, translational, and clinical research, investigating the effect of motion on inflammatory pathways and the beneficial effects of exercise, as well as individualized approaches to low back pain care based on personal biology and clinical phenotypes. She is Co-Director of the Ferguson Laboratory for Orthopaedic and Spine Research, a 3000 square foot laboratory fully equipped to perform molecular assays including biomarker analysis, gene expression and protein assays, cell and organ culture, histology, and cellular and spinal biomechanical testing.

Pradeep Suri, MD is a Professor in the Department of Rehabilitation Medicine at the University of Washington; Director of the Resource Core of the Clinical Learning, Evidence, and Research (CLEAR) Center for Musculoskeletal Conditions at the University of Washington; Staff Physician at the Veterans Affairs (VA) Puget Sound Health Care System; and Epidemiologist at the Seattle Epidemiologic Research and Information Center. He is Deputy Editor of the journal PM&R. He is a practicing clinical spine specialist. Dr. Suri's research is funded by the National Institutes of Health and the Department of Veterans Affairs. He has an MD from the University of Michigan Medical School and an MSc from the Harvard University School of Public Health. His areas of research expertise include epidemiology, genomic epidemiology, and clinical trials, applied to the study of spine, musculoskeletal, and pain conditions.
Stacy Suskauer, MD obtained her M.D. from Duke University and subsequently completed a combined Pediatrics and Physical Medicine and Rehabilitation residency program at Cincinnati Children’s Hospital Medical Center and the University of Cincinnati. Her training continued with a Rehabilitation Research Fellowship at Kennedy Krieger Institute and Johns Hopkins University School of Medicine, where she is currently an Associate Professor in the Departments of Physical Medicine & Rehabilitation and Pediatrics. Dr. Suskauer is also the Director of the Division of Pediatric Rehabilitation within Johns Hopkins PM&R and Vice President of Pediatric Rehabilitation at Kennedy Krieger Institute. Dr. Suskauer’s research interests include the use of neuroimaging techniques and development and use of cognitive/behavioral and sensorimotor evaluation tools to better understand outcomes in children with brain injury.

Randel Swanson, DO, PhD is an Assistant Professor of Physical Medicine and Rehabilitation at the Hospital of the University of Pennsylvania (Penn), with sub-specialty certification in Brain Injury Medicine. Dr. Swanson’s clinical practice centers on the Neurological Rehabilitation of patients with Acquired Brain Injury, both at Penn and within the Polytrauma/TBI System of Care at the Corporal Michael J. Crescenz VA Medical Center. His goal is to assist patients in achieving optimal return of neurological function following all forms of Acquired Brain Injury through a combination of clinical practice and scientific research. Dr. Swanson is a funded investigator within the VA’s Center for Neurotrauma, Neurodegeneration and Restoration (CNNR) and Penn's Center for Brain Injury and Repair (CBIR).
Qing Mei Wang, MD, PhD obtained her PhD and MD from University of Medicine and Dentistry of New Jersey and subsequently completed residency training in Physical Medicine and Rehabilitation Program at Mount Sinai Medical Center at NY. She currently holds an academic appointment in the Department of Physical Medicine and Rehabilitation at Harvard Medical School. She is director of stroke biological recovery laboratory and a staff physiatrist at Spaulding Rehabilitation Hospital. Her research uses translational approach, focusing on investigating the mechanisms of neuroplasticity for stroke recovery in both animal model and stroke patients, and developing biomarkers and pharmacological intervention to promote functional recovery.

Richard Wilson, MD is Vice Chair and the Director of the Division of Rehabilitation Therapy Services at the MetroHealth Rehabilitation Institute, a member of the Cleveland FES Center, and is a Professor of PM&R at Case Western Reserve University in Cleveland, Ohio.

Dr. Wilson is a clinical specialist in post-stroke recovery and neurological rehabilitation. Research interests are in motor peripheral nerve stimulation for the treatment of chronic pain. He was part of the team to first demonstrate generalized hyperalgesia in those with hemiplegic shoulder pain, a finding that supports central sensitization involvement in chronic hemiplegic shoulder pain. After developing the hypothesis that the mechanism of peripheral motor nerve stimulation is correction of the neuroplastic effects of central sensitization, he demonstrated efficacy in pain reduction and the first evidence for central sensitization as the mechanism of action in case series with subacromial impingement syndrome. He has led or participated in randomized controlled trials for pain interventions and improvement of impairment in those with upper limb disabilities. He has served as PI on grants testing peripheral nerve stimulation for chronic pain relief and currently the head of two multisite clinical trials funded by the National Institutes of Health.
**Yejia Zhang, MD, PhD** is an Associate Professor at the University of Pennsylvania. She earned her PhD in Cellular and Molecular Biology at the University of Pennsylvania (PENN) after completing medical school in China. She started her training in the RMSTP program during her residency at the University of Rochester, Rochester, NY. Back pain related to IVD degeneration is an important cause of morbidity in the aging population, with limited therapeutic options. Dr. Zhang’s research on IVD repair has been supported with a K08-award by the NIH. She returned to PENN and joined the Department of Physical Medicine and Rehabilitation in 2013. In addition to strong institutional support from PENN, her current work on the mechanisms of intervertebral disc degeneration and back pain have been supported by the VA and NIH. Her research will provide guidance on the development of treatment strategies for degenerative disc disease, which is associated with low back pain.

**Jennifer Zumsteg, MD** Acute care PM&R consultant, Valley Medical Center. Dr. Zumsteg has an interest in acquired brain injury and neurorehabilitation care across the care continuum. She strives to improve community health and well-being through treatments that optimize function to meet individualized patient goals, providing evidence-based physical medicine and rehab (PM&R) medical consultation, and contributing to safe care and innovation in high-functioning health care teams. Dr. Zumsteg received her medical degree from the University of Chicago, Pritzker School of Medicine and completed PM&R residency at University of Washington. She is board-certified in physical medicine and rehabilitation and brain injury medicine. In her commitments to professional service and advocacy she is active as a volunteer with organizations including the American Board of PM&R and the American Academy of PM&R.