Noam Alperin, Ph.D.
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Noam Alperin came to the University of Miami in May 2009 from the University of Illinois at Chicago. He obtained his undergraduate degree in Physics from Tel Aviv University and his Graduate Degree from the University of Chicago's Medical Physics program. Dr. Alperin's work on the mechanophysiology of the brain and the interplay between blood and CSF flow dynamics is supported by the National Institute of Health. This work has lead to the development of a noninvasive method for measurement of Intracranial Pressure using MRI. Since arriving at UM, Dr. Alperin has joined the McKnight Center imaging team and is leading the research effort on quantitative assessment of the brain atrophy rates and it association with Cerebral Blood Flow. In addition Dr. Alperin heads the Advance Image Processing Laboratory which is integrated with the Evelyn F. McKnight Center for Age Related Memory Loss. The lab focuses on using different MRI modalities to characterize and quantify morphologic and physiologic changes in the brain associated with aging.

Ahmet Murat Bagci, Ph.D.
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Murat Bagci joined the Department of Radiology at the University of Miami in May 2009. He received his graduate degree in 2008 from the Electrical and Computer Engineering Department at the University of Illinois at Chicago. Dr. Bagci's area of research is signal and image processing, development of algorithms and methods for segmentation of medical images. He is currently working as a member of Dr. Alperin's Advanced Image Processing Laboratory investigating morphological and physiological changes in brain due to aging using different MRI modalities. He is working closely with the Evelyn F. McKnight Center for Age-Related Memory Loss.

Antoni Barrientos, Ph.D.
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Dr. Barrientos is interested in the basic processes underlying the biogenesis of the mitochondrial respiratory chain (MRC) and how they bear on human neuromuscular and neurodegenerative disorders and during the aging process. We use yeast and mammalian cell culture models for our research

Three of the research lines in the lab involve:

1- We intend to delineate the assembly process of the enzymes composing the MRC, with special emphasis in cytochrome *c* oxidase (COX). COX deficiency is the most frequent cause of mitochondrial neuromyopathies in humans and has been shown to decline with age.
2- We are interested in the creation of yeast and neuronal models of age-related human neurodegenerative disorders (including Huntington's disease and Parkinson's disease). This will help us study the alterations in mitochondrial physiology that could be essential for the pathogenic mechanism of such disorders.
3- We have created novel yeast models of chronological aging that are being used to explore the role of mitochondrial function in the aging-disease relationship. The results obtained are being validated in mammalian neuronal aging models.

Susan Halloran Blanton, Ph.D.
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Dr. Blanton received her PhD in Human Genetics from Virginia Commonwealth University/Medical College of Virginia. She obtained post-doctoral training in Biostatistics (University of Pittsburgh) and Population Oncology (Fox Chase Cancer Center). Her primary research has focused on the mapping of genes for Mendelian and complex diseases; she has participated in studies identifying twenty genes/loci for Mendelian disorders. Stroke and the underlying genetics of its risk factors, deafness, retinal diseases, skeletal dysplasias, cleft

lip/palate, and club foot are among the diseases which she currently studies. She has also been involved in developing and implementing genetic education materials for Federal and appellate level judges and science writers in an ELSI sponsored project. Her current research also involves developing methods for integrating genetics into the private practice setting. Dr. Blanton is Associate Director of Communications and Compliance at the HIHG and Associate Professor of the Dr. John T. Macdonald Foundation Department of Human Genetics.

Elizabeth A. Crocco, M.D.
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Dr. Crocco is the Chief of Geriatric Psychiatry in the Department of Psychiatry and Behavioral Sciences at the Miller School of Medicine. In addition, she is Board-Certified in the sub-specialty of Geriatric Psychiatry As the co-P.I. of the MDC, she oversees the coordination of clinical services at the MDC and participates actively in the overall research efforts of the clinic. She also serves as the geriatric psychiatry training director at Jackson Memorial Hospital and facilitates the primary training and supervision of all geriatric psychiatry fellows, psychiatry residents, medical students and other physicians/health care professionals.

Kunjan R. Dave, Ph.D.
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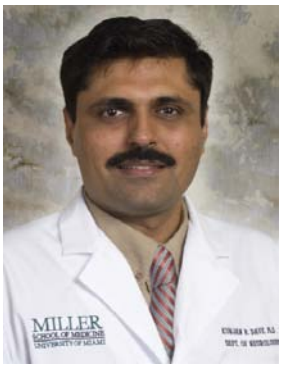

Presently, Dr. Kunjan R. Dave is a Research Assistant Professor of Neurology, University of Miami Miller School of Medicine. Dr. Dave received his Ph.D. in Biochemistry in 2000 from the M. S. University of Baroda, India. During his PhD training he worked on several research projects including secondary complications of diabetes, Alzheimer's disease and drug toxicity among others. From 1999 to 2000 Dr. Dave served at the Zandu Pharmaceutical Works, Mumbai, India, as a Biochemist, where he participated in a drug development program. Dr.

Dave then joined the Department of Neurology, University of Miami as a post-doctoral fellow with Dr. Miguel A. Perez-Pinzon. Dr. Dave has performed research essential for the understanding cerebral ischemia pathophysiology and Amyotrophic Lateral Sclerosis. The goal of Dr. Dave's research is to study potential signaling pathways responsible for neuronal death in neurodegenerative diseases, especially cerebral ischemia. Investigation of intracellular signaling pathways may lead to the development of novel therapies for patients with neurodegenerative diseases and stroke.

Francisca Diaz, Ph.D.
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Dr. Francisca Diaz joined the faculty at the University of Miami, Department of Neurology in 2008. She is a member of the Basic Science Division and has extensive training in Biochemistry and Molecular Biology. Dr. Diaz research focuses on the study of mitochondria and how its bioenergetics and functions relate to neurodegenerative diseases. She has created several genetically modified knockout mice with defects in the mitochondrial oxidative phosphorylation system. These mice are been used as models of human mitochondrial myopathies, encephalopathies and hepatopathies and utilized to test new therapies. Dr. Diaz current research interest also includes the study of adaptive mechanisms of neuronal survival in the absence of mitochondrial respiration. Results of her studies could lead to the discovery of new therapeutic targets for neurodegenerative disorders, stroke and aging. Her research is currently funded by the Florida Health Department. Dr. Diaz is part of the Molecular Bioenergetics Group and is actively involved in the training and supervision of graduate students and postdoctoral fellows in Dr. Carlos Moraes' laboratory.

Hannah Gardener, Sc.D.
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Hannah Gardener, ScD, Assistant Scientist in the Department of Neurology at the University of Miami, is an epidemiologist with a particular interest in neuroepidemiology and the

epidemiology of aging. She received her doctorate in Epidemiology in 2007 from the Harvard School of Public Health. She has been conducting research on risk factors for clinical and subclinical vascular outcomes in the Northern Manhattan Study for almost four years. Her current research focuses primarily on dietary behavior and how it relates to the risk of vascular events, carotid disease, and age-related changes in the brain.

Jung-Jiin Hsu, Ph.D.
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Dr. Hsu holds a Ph.D. in physics (University of Pittsburgh) and completed post-doctoral training in medical imaging and brain functional MRI (Stanford University) before joining the University of Miami in 2009 as research assistant professor of radiology. He promotes and supports MR neuroimaging research, and is developing novel MRI methodologies for quantitative characterization of neuronal activity. Current focus of the development is to utilize the longitudinal relaxation rate of the magnetization for clinically feasible applications; the result will be that the relaxation rate and the physiological quantities derived from it can be used as reliable imaging biomarkers. Areas of laboratory and clinical application are functional imaging of the brain, non-invasive tissue oximetry, non-invasive characterization of the tissue composition, quantitative blood perfusion measurement, etc. He has invented a fast MR longitudinal relaxation measurement method which will bring to the neuroscience community a novel, quantitative tool for functional MRI. Before his career in MRI, Dr. Hsu was a theoretical physicist and had published first-authored research papers on atomic structures. During graduate study, he decided to take on physics problems in biomedicine and chose imaging for the dissertation. Dr. Hsu has 14 years of experience in scientific computing, computerization, development of computational strategies and algorithms for signal processing and statistical analysis and to tackle physics problems. In addition to functional MRI, Dr. Hsu's MRI experience includes designing RF and shim coils, MRI of flow velocity, *z*-shimming, real-time fMRI, CSF oximetry, etc.

Richard S. Isaacson, M.D.
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A graduate of the accelerated 6-year B.A./M.D. program at the University of Missouri at Kansas City School of Medicine, Dr. Isaacson currently serves as Vice-Chair of Education and Director of the Neurology Residency Program in the Department of Neurology. He completed his residency in Neurology at Beth Israel Deaconess Medical Center/Harvard Medical School, and his medical internship at Mount Sinai Medical Center in Miami Beach, FL. Prior to joining the University of Miami, he served as Director of the Research Unit in Medical Education and Associate Medical Director of the Wien Center for Alzheimer's disease and Memory Disorders at Mount Sinai.

Dr. Isaacson's emphasis on education spans undergraduate (student) and graduate (resident) medical education, as well as patient, caregiver and community education/outreach. He has chaired the American Academy of Neurology (AAN) Undergraduate Education Subcommittee working group in dementia, responsible for making recommendations of what is taught to medical students around the country. He received the AAN Education Research Grant for "Evaluating the effectiveness of *Continuum*: Dementia as a teaching tool for medical students" which was selected for the "Scientific Highlights" session of the 2009 AAN Annual Meeting (Top 30 Abstracts of Program), and published in *Neurology* (January 2011). He has completed a study on "Evaluating the effectiveness of a Cognitive Aging curriculum for medical students, Internal Medicine and Neurology residents" and is currently working with Marytery Fajardo (MS-3) on "Age-Related Memory Loss and Alzheimer's Disease Web-based Educational Intervention in Patient Waiting Rooms," an educational intervention/assessment for patients and caregivers. He has lectured in a variety of settings in the community, such as the annual Brain Fair (co-sponsored by the McKnight Brain Institute) for elementary and junior-high school students (and their parents), and other public venues. He is currently funded by National Institutes of Health Clinical Research LRP for his education research on Neurology using the EMR and Health IT. He is the author of numerous publications, his research in neurology and medical education has been presented at scientific meetings nationally and internationally, and he was awarded the 2009 AAN A.B. Baker Teacher Recognition Award, a national award, for his contributions to improving neurologic education.

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Amishi P. Jha, Ph.D., is an Associate Professor at the University of Miami. She recently joined the faculty of the Psychology department at UM, arriving from the University of Pennsylvania where she was an Assistant Professor at the Center for Cognitive Neuroscience. She received her Ph.D. from University of California-Davis in 1998, and received her post-doctoral training in the Brain Imaging and Analysis Center at Duke University (Durham, USA) in functional neuroimaging. Her research centers on the cognitive neuroscience of attention and working memory. Using functional MRI, electroencephalography (EEG), and behavioral measures she has demonstrated that there are two complementary processes that aid "tuning" attention systems to better maintain information over time. There is an active effortful enhancement of neural representations of items that should be maintained in working memory (the memory items), as well as a selective suppression of items that may be very distracting and lead to memory errors. Recently she has begun to explore how attention and working memory are degraded in ADHD, as a function of high-stress (in pre-deployment soldiers), and during aging. In addition, she has received funding from NIH, the Dept. of Defense, and several private foundations to investigate neural changes (using EEG and fMRI) that may result by participating in mindfulness-based training programs, aiming to strengthen attention and working memory via mental training.

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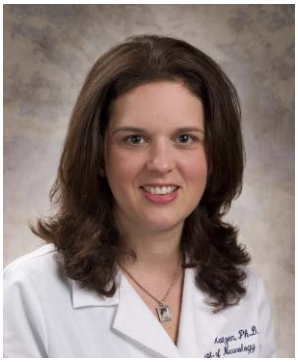

Dr. Heather Katzen is a neuropsychologist and a member of both the McKnight Center and the Schoninger Neuropsychology Program in the Department of Neurology at the University of Miami Leonard M. Miller School of Medicine. She joined the UM faculty in 2006 as an Assistant Research Professor and also has an adjunct appointment at Weill Cornell Medical College in New York. Dr. Katzen's research interests are focused on the cognitive and behavioral manifestations of dementia and other age related disorders. She has an NIH-NINDS funded Mentored Patient-Oriented Research Career Development Award (K23) to study cognitive recovery in Normal Pressure Hydrocephalus. In addition, Dr. Katzen is actively

engaged in ongoing projects in the areas of Parkinson's disease, Huntington's disease, and Essential Tremor. Dr. Katzen is also involved in training and has served as a mentor for several undergraduate, doctoral and medical student research projects.

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Dr. Bonnie Levin is the Alexandria and Bernard Schoninger Associate Professor of Neurology and Director of the Division of Neuropsychology in the Department of Neurology at the University of Miami Miller School of Medicine. She received her BS for Georgetown University and her Ph.D. from Temple University. She completed an internship at the Boston Children's Hospital where she was a clinical fellow in Psychiatry at Harvard Medical School and an externship at the Boston VA Hospital.

Dr. Levin is a neuropsychologist whose research examines neurocognitive and affective changes associated with neurodegenerative disease and the normative aging process. Her work examines the role of cardiometabolic risk factors in cognitive decline. Another focus has been the inter-relationship between behavioral and motor symptoms in Parkinson's disease and the neural circuitry underlying memory and age related cognitive change. Her current work is aimed to advance our understanding of frontal striatal circuit function in cognition and to generate data that will improve our knowledge of key clinical parameters associated with differential rates of cognitive decline. Current projects include: examining which components of the metabolic syndrome predict cognition, identifying imaging and clinical correlates of white matter changes associated with the aging process and linking structural and metabolic markers underlying different symptom profiles in neurodegenerative disease.

Carlos T. Moraes, Ph.D.
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Carlos T. Moraes, Ph.D. is a Professor in the Department of Neurology with a secondary appointment in Cell Biology & Anatomy at the University of Miami, Leonard M. Miller School of Medicine. He earned his BS and MS in Biomedical Sciences at The Escola Paulista de Medicina in Brazil in 1993. He started his PhD program in Genetics & Development at Columbia University College of Physicians and Surgeons in 1988. During thisperiod he worked with Drs. Salvatore DiMauro (co-Mentor) and Eric Schon (Mentor) on the molecular pathogenesis of mitochondrial disorders. He and other colleagues in the group identified large mitochondrial DNA deletions in patients with ocular myopathies. These initial observations were followed by the identification of several novel mutations in the mitochondrial genome in patients with different clinical phenotypes. Following a short postdoctoral period still at Columbia University he relocated to Miami in 1993 to start an independent research group on mitochondrial genetics. At the University of Miami he continued his work on mitochondrial diseases, developing genetic approaches to treat mitochondrial disorders and expanded to study nuclear mitochondrial interactions and the role of mitochondria in aging. Dr. Moraes has and continues to serve on several NIH and The Muscular Dystrophy Association grant review panels. He is currently the chair of the Scientific and Medical Advisory Board of the United Mitochondrial Disease Foundation.

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Dr. Nahab completed his medical degree and residency training in Neurology at the Loma Linda University School of Medicine in southern California. He went on to complete a combined 4-year fellowship in Movement Disorders and Functional Neuroimaging under the direction of Dr. Mark Hallett in the Human Motor Control laboratory at the National Institute of Neurological Disorders and Stroke in Bethesda, Maryland. During his tenure at the National Institutes of

Health, he also became Assistant Clinical Investigator and Director of the Botulinum Toxin Clinic.

Dr. Nahab has conducted leading research into the mechanisms of voluntary movement and self-agency using functional MRI, as well as conducting Phase I/II clinical trials for the treatment of essential tremor. Dr. Nahab is the author of numerous peer-reviewed publications, book chapters, and scientific abstracts in both national and international venues.

Dr. Nahab joined the University of Miami Department Of Neurology in 2008 and established the Laboratory for Functional Imaging of Neurodegenerative Disorders. In addition to his own studies exploring the neural mechanisms of tremor and development of fMRI-based methods to track the progression of Parkinson disease, Dr. Nahab has collaborated with colleagues on the neural substrates of healthy cognitive aging, visual rehabilitation, and the development of clinical functional neuroimaging protocols for patients with brain tumors and epilepsy.

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Dr. Raval Ami serves as Research Assistant Professor in the Department of Neurology at the University of Miami Miller School of Medicine. She has had previous training in the physiology of reproduction, and coupled this knowledge with laboratory research on the pathophysiology of stroke. Her research focuses on (1) understanding the effects of estrogen on neuronal survival after an ischemic episode, and (2) the role of nicotine addiction in compromising the beneficial effects of estrogen on hippocampal neurons subjected to ischemia. The results to this point indicate that nicotine addiction renders females more susceptible to ischemic brain damage. The severity of ischemic brain damage is far greater in females simultaneously exposed to oral contraceptives than to nicotine only. Overall her study aims to identify the mechanism of deleterious effects of nicotine that are unique to the female brain. The knowledge acquired will guide the development of novel pharmacological strategies specific for women.

Tatjana Rundek, M.D., Ph.D.
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Dr. Tatjana Rundek is Associate Professor Neurology and a Director of Clinical Translational Research Division in the Department of Neurology of the Miller School of Medicine, the University of Miami. She is Vice Chair of Clinical Research in the Neurology. Dr. Rundek received her medical and PhD degree at the University of Zagreb, and trained in neurology in Munich. She received stroke and epidemiology fellowship training at Columbia University in New York. She was an Assistant Professor of Neurology and Director of Non-Invasive Vascular Laboratory at Columbia University until she relocated to Miami in 2007. Dr. Rundek is a principal investigator of the NIH funded R01s grants on genetics of subclinical atherosclerosis and the recipient of NIH K24 training grant. She is a co-investigator of several large NIH-funded epidemiology studies including the Northern Manhattan Study and Albert Einstein Aging Vascular Ancillary Study in the Bronx. Dr. Rundek was the Fulbright Scholar and the recipient of the research awards from the Hazel K. Goddess Found, the Dr. Gilbert Baum Fund and the American Institute in Ultrasound in Medicine award for best clinical application of ultrasound. Dr Rundek research work is directed toward the genetic and environmental determinants of stroke and atherosclerosis and use of ultrasound imaging for early detection, intervention and prevention of functional and structural changes of arterial wall in inflammation. Dr. Rundek is also dedicated to teaching and promotion of clinical utility and standards of neurovascular ultrasound. Dr. Rundek is a member of the American Heart Association, American Academy of Neurology, and American Institute of Ultrasound in Medicine, serves on the editorial boards of *Neurology and Stroke*, and is *President elect* of the Neurosonology Community Practice of the American Institute of Ultrasound in Medicine.

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Ralph L. Sacco, MD, MS, is the Chairman of Neurology, Olemberg Family Chair in Neurological Disorders, Miller Professor of Neurology, Public Health & Epidemiology, Neurosurgery and Human Genetics at the Miller School of Medicine, University of Miami and Chief of the Neurology Service at Jackson Memorial Hospital. A graduate of Cornell University, and a cum laude graduate of Boston University School of Medicine, he also holds a master's in epidemiology from Columbia University, School of Public Health. Dr. Sacco completed his neurology residency training and postdoctoral training in stroke and Epidemiology at Columbia Presbyterian in New York. He was previously Professor of Neurology, Chief of the Stroke and Critical Care Division, and Associate Chairman at Columbia University.

Principal Investigator of the Northern Manhattan Study (NOMAS), as well as co-investigator of multiple other NIH grants, Dr. Sacco has published extensively in the areas of stroke prevention, treatment, risk factors and stroke recurrence. He has been the recipient of numerous awards including, the Feinberg Award for Excellence in Clinical Stroke, the Chairman's Award from the American Heart Association and the Javits Award in Neuroscience.

Dr. Sacco is a fellow of both the Stroke and Epidemiology Councils of the American Heart Association and the American Academy of Neurology. He is a member of the American Association of Physicians and the American Neurological Association. He is currently serving as President of the American Heart Association for the 2010-11 term.

Clinton B. Wright, M.D., M.S.
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As Scientific Director of the Evelyn F. McKnight Brain Institute, Dr. Wright is developing a translational research program that examines normal cognitive aging and its distinction from pathological states, with a special emphasis on the role of subclinical cerebrovascular disease.

Dr. Wright graduated from George Washington with honors in psychology, and received his medical degree from the College of Physicians and Surgeons of Columbia University. He completed residency training in neurology at the Neurological Institute of New York and the Columbia University Medical Center. Following residency, Dr. Wright was awarded completed a vascular neurology fellowship as well as a Master of Science degree in epidemiology from Mailman School of Public Health under the NINDS-funded Neuroepidemiology Program (T32).

Dr. Wright is currently funded by the American Heart Association and the National Institutes of Neurological Disorders and Stroke to examine race-ethnic disparites and the effects of vascular risk factors on the brain structure and function, with an emphasis on early cognitive changes. He is Chair of the Neuroimaging and Cognitive studies within the Northern Manhattan Study, an urban multi-ethnic population-based cohort study in New York. Recent studies include the association between longitudinal blood pressure measurements as well as the association between adherence to a Mediterranean Style Diet and white matter lesion load. He is also site PI of the NHLBI-funded Systolic Blood Pressure Intervention Trail (SPRINT) MRI substudy.

Dr. Wright is co-director of the collaborative UM Memory Disorder Center (MDC) along with Dr. Elizabeth Crocco, Chief of Geriatric Psychiatry in the department of Psychiatry & Behavioral Sciences. The MDC has clinical and research aims, as well as community outreach and caregiver support programs. The MDC includes other McKnight Brain Institute members, including neuropsychologists Drs. Bonnie Levin and Heather Katzen, and neurologist Dr. Richard Isaacson. The Center collaborates with Dr. Margaret Pericack-Vance and the Hussman Institute for Human Genomics.