

<b>TABLE 9. Research interests of training grant faculty</b>			
<b>Faculty</b>	<b>Rank/Department</b>	<b>Research Interests</b>	<b>Mentoring experience/collaborations</b>
<b>Joyce “Joy” Balls-Berry, PhD</b> <i>Leadership Committee</i>	Associate Professor of Neurology	Applying community and patient engaged research principles in diverse populations to reduce health disparities and increase health equity and determining ways to increase diversity and inclusion in clinical and translational science.	Leads the Knight ADRC Health Disparities and Equity Core (HDE) and collaborates extensively with members of the Knight ADRC and Department of Neurology. Works closely with ADRD-T32 and REC leadership on increasing diversity among trainees.
<b>Randall J. Bateman, MD</b>	Charles F. and Joanne Knight Distinguished Professor of Neurology	Metabolism of amyloid beta peptide (developed stable isotope labeled kinetic (SILK) technique to measure amyloid beta peptide production and clearance in humans), clinical research (started Dominantly Inherited Alzheimer Network Treatment Unit (DIAN-TU), a secondary prevention trial in people with autosomal dominant AD).	Productive medical student, predoctoral and postdoctoral trainees. Postdoctoral trainees include Dr. Brendan Lucey, also a faculty mentor. During his postdoctoral fellowship, Dr Bateman was co-mentored by Drs Holtzman and Morris.
<b>Tammie Benzinger, MD, PhD</b>	Associate Professor of Radiology	Neuroimaging in dementia, Director of Knight ADRC imaging, develops new PET ligands as markers of neurodegenerative disorders	Has had highly productive medical student mentees and postdoctoral fellow trainees. Leads Radiology T32.
<b>Gregory Bowman, PhD</b>	Associate Professor of Biochemistry and Molecular Biophysics	The distribution of different structures a protein adopts and how this ensemble determines a proteins function	Excellent mentoring record and mentor to current ADRD-T32 predoctoral trainee Justin Miller.
<b>Thomas Brett, PhD</b>	Associate Professor of Medicine, Division of Pulmonary and Critical Care Medicine	Inflammatory mechanisms and innate immunity in AD, especially TREM2; uses crystallization and structure function analysis	Predocloral students very productive with 6 publications each.
<b>Meghan Campbell, PhD</b>	Associate Professor of Neurology and Radiology	Cognitive and Clinical Neuropsychology, with an emphasis on the cognitive sequelae associated with aging and neurodegenerative disorders	Interested primarily in Parkinson’s disease dementias. Extensive mentor experience and leads LGBTQ mentor group, OutMentor.
<b>John Cirrito, PhD</b> <i>Leadership Committee</i>	Associate Professor of Neurology	Developed in vivo microdialysis and more recently micro-immunoelectrode methods that allow real-time detection of amyloid beta peptide and tau in living animals.	Dr. Cirrito was awarded the MetLife Promising Investigator Award for Alzheimer research in fall 2016. Dr. Cirrito was mentored by Dr Holtzman. Successfully mentored ADRD-T32 trainee Dr. Rachel Hendrix.

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<b>Marco Colonna, MD</b>	Professor of Professor of Pathology & Immunology and Medicine	Studies cell signaling and the innate immune system, including cloning of the triggering receptor expressed on myeloid cells (TREM), works on diabetes and ADRD.	Highly productive trainees and many active collaborations, e.g. with Dr. David Holtzman
<b>Carlos Cruchaga, PhD</b>	Professor of Psychiatry	Next generation sequencing and genome wide screens correlated with imaging and fluid biomarkers in ADRD	Leads Knight ADRC genetics Core; many collaborations and very impressive publications by trainees (8-10 publications per predoctoral trainee and 5-15 for postdocs)
<b>Aaron DiAntonio, MD, PhD</b>	Alan A. and Edith L. Wolff Professor of Developmental Biology	Molecular mechanisms of neural circuits and axonal degeneration using genetic, molecular, neuroanatomical, and electrophysiological studies in both Drosophila and mouse models.	Mentoring awards, collaborates with other T32 faculty; mentees have at least 2 and up to 8 publications during training
<b>Brian Gordon, PhD</b>	Assistant Professor of Radiology	Advanced neuroimaging techniques to understand healthy aging and neurodegenerative disorders and autosomal dominant Alzheimer disease	Served as faculty research mentor for 10 undergrads, 2 medical students, 4 graduate students, 1 postdoc and 3 other learners. Served as career mentor for 1 medical student, 6 grad students and 6 postdocs/junior faculty
<b>Jason Hassenstab, PhD</b>	Associate Professor of Neurology and Psychological and Brain Sciences	Development of more sensitive cognitive measures and correlation with imaging and fluid biomarkers, leads Knight ADRC Psychometrics unit	Mentors predoctoral and medical students; many collaborations. Dr Hassenstab was mentored by Dr Morris during his K23 award.
<b>Denise Head, PhD</b>	Associate Professor of Psychological & Brain Sciences, also Radiology and African and African American Studies	Aging related brain changes, especially effects on cognition and personality and role of exercise and cognitive training.	Productive predoctoral and postdoctoral trainees (2-5 publications each during training) and many collaborations. Co-PI of Aging and Development T32.
<b>Tamara Hershey, PhD</b>	James S. McDonnell Professor of Cognitive Neuroscience in Psychiatry & Radiology	Effects of diabetes and obesity on the brain and neural substrate of cognitive disorders	Highly productive and experienced mentor with experience in Parkinson's disease and other dementias, leads Neuroimaging labs at the Mallinckrodt Institute of Radiology and McDonnell Center for Systems Neuroscience at Washington University.

<b>David Holtzman, MD,</b> <i>Leadership Committee</i>	Andrew B. and Gretchen P. Jones Professor and Chair of the Department of Neurology at Washington University	Metabolism of amyloid $\beta$ , apoE, tau and role of sleep and synaptic activity; uses microdialysis, biochemistry, development of new therapeutics and fluid biomarkers	Former mentees include ADRD-T32 faculty Drs. Bateman, Cirrito, Fagan, Musiek and Perrin and many collaborations. Predoctoral mentees have 3-10 publications each and postdoctoral trainees have 2-11 publications each.
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<b>Darrell Hudson, MPH, PhD</b>	Associate Professor of Social Work	Social epidemiology of depression among African Americans, especially role of stress, coping strategies, and available resources, and increasing diversity in research and clinical care	Demonstrated success in mentoring predoctoral trainees
<b>Celeste Karch, PhD</b>	Associate Professor of Psychiatry	Molecular mechanisms underlying tauopathies	Leads the stem cell core of the Knight ADRC and uses iPSCs to study neurodegeneration.
<b>Meredith Jackrel, PhD</b>	Associate Professor of Chemistry	Protein folding, misfolding, and phase separation; protein homeostasis and disaggregases; RNA-binding proteins and disease	Mentors pre and postdoctoral trainees; Member of Hope Center
<b>Jonathan Kipnis, PhD</b>	Alan A. and Edith L. Wolff Distinguished Professor of Pathology and Immunology	Study of complex interactions between the immune and nervous systems, focusing on lymphatic vessels	Has led studies of the “glymphatics” system and has successfully mentored many postdocs and several predoctoral trainees.
<b>Brendan Lucey, MD</b>	Associate Professor of Neurology, Chief of Sleep Medicine section	Role of sleep in pathogenesis and treatment of ADRD, correlation of sleep with biomarkers	Collaborates with Drs. Bateman, Holtzman and Morris; has experience teaching and mentoring
<b>Dan Marcus, PhD</b>	Professor of Radiology	Imaging and informatics including applications across disease spectrums, including Alzheimer disease and cancer	Leads the informatics core for the Dominantly Inherited Alzheimer Network (DIAN) and other large consortia
<b>Eric McDade, DO</b> <i>Co-Principal Investigator</i>	Professor of Neurology	Diagnosis and management of Alzheimer disease and related dementias, with a focus on familial and early onset dementia	Director of the Clinical Core of DIAN and co-Director of DIAN-treatment unit (DIAN-TU). Directs the DIAN postdoctoral fellowship.

<b>Timothy Miller, MD, PhD</b>	Clayson Professor of Neurology, Vice Chair for Research	Use of novel treatments, including antisense oligonucleotides for ADRD and amyotrophic lateral sclerosis (ALS) in cell culture, animal models and clinical trials	Collaborates extensively; both predoctoral and postdoctoral trainees have productive publication records, with at least 2 publications per doctoral trainee and at least one per postdoctoral trainee
<b>John C. Morris, MD</b> <i>Leadership Committee</i>	Harvey A. and Dorismae Friedman Distinguished Professor of Neurology	Longitudinal studies of imaging, fluid and cognitive biomarkers in healthy aging and ADRD; interests in preclinical AD and other dementias. Directs Knight ADRC.	Excellent mentor (received AWN mentoring award in 2008); former trainees include ADRD-T32 faculty Drs. Snider, Bateman, Day, Hassenstab, Musiek, Schindler and Xiong.
<b>Nancy Morrow-Howell, MSW, PhD</b>	Bettie Bofinger Brown Distinguished Professor of Social Policy	Social engagement in older adults and its effects on aging, using large data sets and informatics approaches; Director of Center for Aging	Faculty mentoring award recipient; very productive trainees with 2-6 publications per trainee.

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<b>Erik Musiek, MD, PhD</b>	Associate Professor of Neurology	Cellular stress responses, oxidative stress, and circadian rhythms in aging and ADRD in cell culture and animal models	Successfully mentoring pre and postdoctoral trainees. Dr Musiek was co- mentored by Drs Holtzman and Morris during his K08 award.
<b>Rohit V. Pappu, PhD</b>	Edwin H. Murty Professor of Biomedical Engineering	Director of the Center for Biological Systems Engineering at WU; uses computational biophysics, machine learning, fluorescence spectroscopy and microscopy to study proteins implicated in ADRD	Successfully mentored 9 predoctoral students and 7 postgraduate trainees in the last 10 years; many collaborators in ADRD research
<b>Richard Perrin, MD, PhD</b>	Associate Professor of Pathology and Immunology	Neuropathology and fluid biomarkers in ADRD, discovery of new biomarkers and correlation with pathology.	Mentoring experience with medical students, pathology and neurology residents, developing his own group of pre and postdoctoral mentees.
<b>Laura Piccio, MD, PhD</b>	Associate Professor of Neurology	Neurodegeneration mechanisms in MS/inflammatory disorders	Has expertise in immunology and MS and has successfully mentored many trainees; has joint appointment with the University of Sydney
<b>Schindler, Suzanne, MD, PhD</b>	Associate Professor of Neurology	Fluid biomarkers in Alzheimer disease and related disorders	Leads the Knight ADRC Fluid biomarker core and leads large projects examining blood biomarkers

<b>B. Joy Snider, MD, PhD</b> <i>Co-Principal Investigator</i>	Professor of Neurology	Fluid biomarkers in clinical practice, clinical therapeutic trials, viral vectors, dementia education	Former director of the Adult Neurology residency program, leads dementia courses for predoctoral students in Markey Dementia series, and mentors medical students in summer programs and the Dementia KISC has successfully mentored postdoctoral and predoctoral trainees
<b>Susan Stark, PhD</b> <i>Leadership Committee</i>	Professor of Occupational Therapy, Neurology and Social Work	Efficacy and effectiveness of compensatory interventions aimed at improving an older adults ability to age at home safely	Co-leader of the Knight ADRC REC. Developed program for undergraduate AD research for Harris-Stowe State University students.
<b>Chengjie Xiong, PhD</b>	Professor of Biostatistics	Statistical approaches to ADRD research and clinical trials; director of Knight ADRC Data Management and Statistics Core	Extensive interdisciplinary collaborations; successful postdoctoral trainees. Dr Xiong's K25 award mentor was Dr Morris.
<b>Andrew Yoo, PhD</b>	Associate Professor of Developmental Biology	Understanding genetic pathways that specify cell fates during development including role of microRNAs	Uses tissue culture models to study role of small RNAs in neuronal development and disease.