EMORY UNIVERSITY | Goizueta Alzheimer's Disease Research Center

ADRC Research Education Component Request for Application

Funding start date: May 1, 2021 **Project period:** 1 year

The Research Education Component (REC) of the Goizueta ADRC is soliciting applications for the 2021 REC. The REC mission is to support a select group of trainees and junior faculty who are interested in developing greater experience in Alzheimer's disease (AD) and Alzheimer's disease-related dementia (ADRD) research, through enhanced mentoring and curricular activities.

The Goizueta ADRC at Emory has an outstanding history of training successful investigators and trainees. REC participants will have the opportunity to enhance their career interests in AD/ADRD research through tailored support from our REC faculty through mentorship, lectureship, and hands-on trainings. Our newly developed ADRC REC curriculum encompasses existing resources in ADRD research and relevant fields from Georgia CTSA, Center of Neurodegeneration (CND), etc. Post graduate students, post doctorate fellow and early/new stage investigators are eligible to apply. In addition to the scholarly support, we provide financial support for travel to workshops or training relevant to your career trajectory (up to 2 years). Available funding includes $10,000/year to support or supplement a small research study plus $5,000 to support attendance to regional/national meetings or certifications to enhance your career in AD/ADRD research. Each trainee will also have travel funds to attend one ADC national meeting over the course of their REC trainee period.

Applicants need to identify a mentor (or mentors) who will supervise the proposed career development and research experience during their REC participation. The mentor should be an active investigator in the area of the proposed research and be committed both to the career development of the candidate and to the direct supervision of the candidate's research. Although participants may have mentors from outside the REC Faculty pool, we will require that one of the mentors (primary or secondary) be a REC Faculty (**list attached**).

Applications are reviewed based on the NIH-criteria for evaluating career development awards including research significance, innovation and approach and candidate's career plans and their mentoring plans. Proposed research should adhere to NIH guidelines for career development awards, animal welfare and protection of human subjects.

Applications due 01/11/2021

Click here to submit Application

url: https://redcap-neuro.emory.edu/surveys/?s=FX9YCD3WAA

Proposal Requirements:

- The ADRC REC application (1-page limit),
- The applicant's and Mentor's biosketches,
- Letter of support from the identified mentor/(s),
- A reference letter from a Faculty member who is familiar with the applicant work describing the qualities and potential of the candidate's success as an AD/ADRD researcher or trainee,
    - Mentor/(s) and faculty member identified on ADRC REC application will receive a separate link for uploading their documents
- For additional information or questions, contact CeeCee Manzanares cmanzan@emory.edu or Ranjita Betarbet rbetarb@emory.edu

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2021 Goizueta ADRC-REC application (1-page limit)

Career Goals and objective: *[please list 1-3 goals you would like to accomplish during the next 1-2 years as related to AD/ADRD research]*

Research Interest: *[describe briefly the research area you are interested in and any specific hypotheses that you like to focus on during the next year]*

Proposed training and research activities: *[In addition to the mandatory requirements, please describe briefly research or training activities you are interested in completing during the next year]*

Referee Instructions for Goizueta ADRC Research Education Component Applicants:

Name of REC Applicant/Candidate *(First & Last Name*): _____

The candidate is applying to the Research Education Component (REC) of the Goizueta ADRC. The REC mission is to support a select group of trainees and junior faculty who are interested in developing greater experience in Alzheimer's disease (AD) and Alzheimer's disease-related dementia (ADRD) research, through enhanced mentoring and curricular activities. The Goizueta ADRC at Emory has an outstanding history of training successful investigators and trainees. REC participants will have the opportunity to enhance their career interests in AD/ADRD research through tailored support from our REC faculty through mentorship, lectureship, and hands-on trainings. In two pages or less (PDF format), describe the qualities and potential of the candidate for the career development award program for which support is being requested. This should include your evaluation with special reference to:

- potential to become an ADRD researcher or (in case of postgraduate student an ADRD post doctorate fellow or junior faculty;
- evidence of originality;
- adequacy of scientific background;
- quality of research endeavors or publications to date, if any;
- commitment to ADRD research; and
- need for further research experience and training
- any additional related comments that the referee may wish to provide

Referees may provide any additional, related comments that they believe will help reviewers evaluate the merit of the candidate's application.

A separate email link will be sent for uploading letter in support of the candidate's application

REC Training Faculty and their affiliations and research area of interest	
Senior Faculty	**Affiliation and Research Area**
Alvaro Alonso, MD, PhD	Associate Professor of Epidemiology; cardiovascular and dementia risk factors
Gary Bassell, PhD	Professor and Chair of Cell Biology; RNA biology and neurodegenerative disease
Vince Calhoun, PhD	Professor of Psychology (Georgia State) and Neurology (Emory), Director of Translational Research in Imaging and Data Sciences; MRI biomarkers and multi-modal data analysis
Anthony Chan, PhD	Professor of Human Genetics and Yerkes National Primate Research Center; transgenic monkey models of neurodegenerative disease
Gari Clifford, DPhil	Professor and Chair, Department of Biomedical Informatics; digital technologies/mHealth, signal processing, machine learning and physiological modeling
Anita Corbett, PhD	Professor of Biology; modulation of tau pathology by RNA binding proteins
Bruce Crosson, PhD	Professor of Neurology; aging and brain plasticity using MRI
Ray Dingledine, PhD	Professor of Pharmacology; drug discovery, role of neuroinflammation in neurodegeneration
Audrey Duarte, PhD	Associate Professor of Psychology (Georgia Tech); cognitive mechanisms of aging and memory loss
Andrew Escayg, PhD	Professor of Human Genetics; neuronal excitability in neurological diseases
Thota Ganesh, PhD	Associate Professor of Pharmacology; drug discovery, targeting neuroinflammation for AD
Jonathan Glass, MD	Professor of Neurology and Pathology (Neuropathology); axonal degeneration in neurodegenerative disease, FTD/ALS
Felicia Goldstein, PhD	Professor of Neurology; neuropsychology; early detection of cognitive impairment
Ihab Hajjar, MD	Associate Professor of Neurology; link between cardiovascular disease and AD, member of the M2OVE-AD consortium
John Hanfelt, PhD	Professor and Chair of Biostatistics, Co-Director ADRC Statistics/Data Management Core; latent class analysis methods in AD
Ken Hepburn, PhD	Professor School of Nursing, ADRC Education Core Leader; caregiver research including Tele-Savy Caregiver Program, and development of educational materials for AD caregivers
John Hepler, PhD	Professor of Pharmacology; cell signaling mechanisms of synaptic plasticity and learning and memory in the hippocampus
Peng Jin, PhD	Professor of Human Genetics; microRNA pathways in neurodegeneration, member of the M2OVE-AD consortium
Shella Keilholz, PhD	Associate Professor of Biomedical Engineering; imaging methods to study functional connectivity in the normal and diseased brain
James Lah, MD, PhD	Alice and Roy Richards Associate Professor and Vice Chair of Neurology, Director Cognitive Neurology Program; pathogenic mechanisms in AD, member of the AMP-AD and M2OVE-AD consortium
Allan Levey, MD, PhD	Professor and Chair of Neurology, Goizueta Foundation Endowed Chair in Alzheimer's Disease Research; basic mechanisms and clinical treatment of AD, member of the AMP-AD and M2OVE-AD consortium, and DIAN.
Joseph Manns, PhD	Associate Professor of Psychology; hippocampal electrophysiology underlying learning and memory
Zixu Mao, PhD	Professor of Pharmacology; neuronal stress in neurodegeneration
Eric Ortlund, PhD	Associate Professor of Biochemistry; lipidomics approaches in AD, member of M2OVE-AD consortium
Arshed Quyyumi, MD	Professor of Medicine, Cardiology; peripheral vascular function and cognitive aging and AD, member of M2OVE-AD consortium.
Nicholas Seyfried, PhD	Associate Professor of Biochemistry; proteomics approaches in AD, member of AMP-AD, M2OVE-AD, AD-resilience, MODEL-AD consortia, and DIAN.
Roy Sutliff, PhD	Professor of Medicine; endothelial function and AD models, member of M2OVE-AD consortium
Mi-Kyung Song, PhD, RN	Professor Office of Academic Advancement, Edith F. Honeycutt Chair in Nursing; end of life decision making in AD
Lary Walker, PhD	Research Professor of Neurology; transmission of amyloid pathology
Lance Waller, PhD	Professor of Biostatistics; epidemiology of neurodegenerative disease
David Weinshenker, PhD	Professor of Human Genetics, Director Rodent Behavioral Core; role of the locus coeruleus in AD
Keqiang Ye, PhD	Professor of Pathology; molecular mechanisms of neurodegeneration in AD
Junior Faculty	
Shannon Gourley, PhD	Assistant Professor of Pediatrics; prefrontal cortex function and decision making
David Gutman, MD, PhD	Assistant Professor of Neurology and Psychiatry; biomedical informatics, digital pathology, imaging and data science
Madeleine Hackney, PhD	Assistant Professor of Medicine; dance-based therapies for geriatric neurological and cognitive dysfunction
Chad Hales, MD, PhD	Assistant Professor of Neurology; mechanisms of neurodegeneration in AD
David Katz, PhD	Assistant Professor of Cell Biology; interactions between histone methylation and tau pathology in AD
YongTae (Tony) Kim	Assistant Professor of Bioengineering (Georgia Tech); modeling the neurovascular unit and drug discovery for AD
Thomas Kukar, PhD	Assistant Professor of Pharmacology; development of novel therapeutics for AD
Nigel Pedersen, MD	Assistant Professor of Neurology; neural circuits of sleep-wake
Deqiang Qiu, PhD	Assistant Professor of Radiology and Imaging Sciences; development and application of novel MRI techniques
Annabelle Singer, PhD	Assistant Professor of Biomedical Engineering (Georgia Tech); effects of brain activity oscillations on AD neuropathology and cognitive impairment
Karan Uppal, PhD	Assistant Professor of Medicine; bioinformatics, metabolomics and data integration, member of the M2OVE-AD consortium.
Whitney Wharton, PhD	Assistant Professor of Neurology; cardiovascular effects on AD
Aliza Wingo, MD	Assistant Professor of Psychiatry; molecular mechanisms of neuropsychiatric symptoms and psychological well-being on dementia risk. member of the AMP-AD consortium and AD-resilience.
Thomas Wingo, MD	Assistant Professor of Neurology and Genetics; genetics of AD, young-onset AD, and systems biology and multi-modal modeling; member of the AMP-AD consortium and AD-resilience.
Levi Wood, PhD	Assistant Professor of Biomedical Engineering (Georgia Tech); neuroinflammation and gene profiling in AD
Zhexing Wen, PhD	Assistant Professor of Psychiatry; organoid models of neurodegenerative disease
Bing Yao, PhD	Assistant Professor of Human Genetics; epigenetic mechanisms in AD