**February 3, 2020**

# *Neurotransmitter*

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**Neurotransmitter Schedule**

The next ***Neurotransmitter*** will be published and mailed electronically on **Monday, February 17, 2020.** All seminar announcements and notices must be submitted to Natalee Bright via email (CNUP@pitt.edu) **no later than 12:00 noon on Thursday, February 13, 2020.**

## Notices

Fri., 02/7
12:00 p.m.

Department of Psychiatry Lecture Series, Researchers on the Rise Lecture:
***Enhancing NGR/p75/KAL9 Signaling and Impaired Dendritic Morphogenesis in Schizophrenia***

UPMC
WPIC
2nd Floor,
Auditorium

Melanie Grubisha, MD, PhD
Assistant Professor of Psychiatry
University of Pittsburgh
School of Medicine

***Disruption of Corticostriatal Circuit Development by Early Imbalances in Network Activity- A Common Pathophysiology in ASD?***

Rui Peixoto, PhD
Assistant Professor of Psychiatry
University of Pittsburgh
School of Medicine

*(Sponsored by the Department of Psychiatry)*

Thurs., 02/13
12:00 p.m.

***Protein Kinase C Unbalanced: Loss-of-Function and Gain-of-Function Mutations in Cancer vs Neurodegeneration***

BSTWR
1395

Alexandra Newton, PhD
Distinguished Professor of Pharmacology
University of California at San Diego

*(Sponsored by the Department of Pharmacology and Chemical Biology)*

Thurs., 02/13
12:00 p.m.

Topics at Noon Series:
***Social Engagement and Brain Structural Integrity in Community-Dwelling Older Adults***

ADRC
Conference
Room,
S439

Cynthia Felix, MD, MPH
Postdoctoral Associate
Department of Epidemiology, GSPH

*(Sponsored by University of Pittsburgh Alzheimer Disease Research Center & University of Pittsburgh School of Medicine Continuing Education in the Health Sciences)*

Wed., 02/19
4:00 p.m.

Pittsburgh Center for Pain Research Seminar Series:
***Immune Contributions to Persistent Pain***

BSTWR
1495

Vivianne Tawfik, MD, PhD
Assistant Professor of Anesthesiology, Perioperative and Pain Medicine
Stanford University

*(Sponsored by the Pittsburgh Center for Pain Research)*

Wed., 03/04
4:00 p.m.

Pittsburgh Center for Pain Research Seminar Series:
***Sensory Neuron Specific Therapies for Pain***

BSTWR
1495

Yun Guan, MD, PhD
Professor of Anesthesiology and Critical Care Medicine
Johns Hopkins University

*(Sponsored by the Pittsburgh Center for Pain Research)*

Thurs., 03/12
4:00 p.m.

The Aging Institute at the University of Pittsburgh presents:
***Circadian Clocks and the Importance of Timing in Aging and Longevity***

BST
South,
S100A

Joseph S. Takahashi, PhD
Professor and Chair, Department of Neuroscience, Investigator, Howard Hughes Medical Institute, Lloyd B. Sands, Distinguished Chair in Neuroscience, Peter O'Donnell Jr. Brain Institute
University of Texas Southwestern Medical Center

*(Sponsored by The Aging Institute at the University of Pittsburgh)*

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| Thurs., 03/26<br>12:00 p.m. | Topics at Noon Series:<br>***The Human Brainome: Genome, Transcriptome and Proteome Interaction in Human Cortex*** |
| Conference Center, Scaife Hall, Room 1103 | Amanda J. Meyers, PhD<br>Associate Professor<br>University of Miami Miller School of Medicine, Department of Psychiatry & Behavioral Sciences, Program in Neuroscience, Interdepartmental Program in Human Genetics and Genomics Center on Aging<br><br>*(Sponsored by University of Pittsburgh Alzheimer Disease Research Center & University of Pittsburgh School of Medicine Continuing Education in the Health Sciences)* |

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|---|---|
| Thurs., 04/23<br>12:00 p.m. | Topics at Noon Series:<br>***The New Genetics of Psychosis in AD*** |
| ADRC Conference Room, S439 | Robert A. Sweet, MD<br>Professor of Psychiatric Neuroscience, Professor of Neurology, Director, Clinical Core, Alzheimer Disease Research Center, Director, T32, Training for Transformative Discovery in Psychiatry<br><br>*(Sponsored by University of Pittsburgh Alzheimer Disease Research Center & University of Pittsburgh School of Medicine Continuing Education in the Health Sciences)* |

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|---|---|
| Thurs., 05/28<br>12:00 p.m. | Topics at Noon Series:<br>***Return of Amyloid Imaging Scan Results to Participants with MCI and their Family Care Partners*** |
| ADRC Conference Room, S439 | Jennifer H. Lingler, PhD, CRNP<br>Professor of Health and Community Systems, School of Nursing<br>Director, ADRC Outreach, Recruitment & Education Core<br><br>*(Sponsored by University of Pittsburgh Alzheimer Disease Research Center & University of Pittsburgh School of Medicine Continuing Education in the Health Sciences)* |

**Postdoctoral Fellow/Staff Scientist Position**

**Translational Neuroscience/Electrophysiology**
**University of Pittsburgh**

A postdoctoral fellow or staff-scientist position is available in the laboratory of Dr. Susanne Ahmari in the Translational Neuroscience Program at the University of Pittsburgh http://ahmarilab.pitt.edu/. This project will utilize multiple advanced techniques for the analysis and manipulation of cortico-striatal circuits in order to discover the cellular and circuit abnormalities underlying compulsive behaviors. This position is funded by an NIMH R01 (https://projectreporter.nih.gov/project_info_description.cfm?aid=9709695&icde=45654581), with potential additional support from a Burroughs Wellcome Fund Career Award for spin-off projects for a motivated candidate.

The ideal candidate will have expertise in *in vivo* electrophysiology in awake animals. They will also have the opportunity to learn and apply other techniques including optogenetics, *in vivo* calcium imaging, and viral tract tracing.

Qualified applicants are expected to hold a recent doctoral degree in neuroscience, biological sciences, bioengineering, or related disciplines, with a track record of productivity. Prior experience in electrophysiology, computational analysis methods. rodent behavioral testing, and optogenetics is highly preferred. Candidates must be able to work collaboratively within a collegial team, and have excellent oral and written communication skills.

The Department of Psychiatry and Center for Neuroscience at the University of Pittsburgh offers a highly collaborative, top-notch research and training environment. The successful candidate(s) will become part of a large, multidisciplinary neuroscience community, and will have ample opportunities for collaboration. Training grant positions are available for competitive post-doctoral candidates who are interested in pursuing an independent academic position. Competitive salary and benefits are available.

Interested candidates should email their curriculum vitae/ biosketch, a letter of interest outlining experience and research goals, and the names and contact information of three references to sahmari@pitt.edu.

**Research Associate**

RESEARCH ASSOCIATE POSITION AVAILABLE IN THE DEPARTMENT OF PSYCHIATRY AT THE UNIVERSITY OF PITTSBURGH MEDICAL CENTER

A research technician position is available in the laboratory of Dr. Susanne Ahmari in the Translational Neuroscience Program at the University of Pittsburgh. The Ahmari lab uses multiple advanced techniques for the analysis and manipulation of neural circuits in order to discover the molecular, cellular, and circuit abnormalities underlying Obsessive Compulsive Disorder and anxiety. The ideal candidate will be able to work collaboratively and effectively communicate with an interactive and collegial research group. Specific job responsibilities include mouse colony maintenance (including breeding and genotyping),

performing mouse behavioral studies (including optogenetics), cryostat/tissue mounting, immunohistochemistry, preparing reagents and solutions, and general lab duties such as autoclaving and dishwashing. Preference will be given to candidates with experience in stereotaxic surgery.

Requirements: Bachelor's Degree in Biology, Neuroscience, Psychology, Chemistry, or related field required. At least 1 year of experience working in a neuroscience or other biological science laboratory. At least 1 year of experience required with rodent experiments generally, with specific experience in the areas of rodent colony maintenance, genotyping, and behavioral experiments. Opportunities will also be available for motivated candidates to learn in vivo microscopy and in vivo electrophysiology.

Interested candidates should email their CV, a letter of interest outlining experience, and the names and contact information of three references to ahmarise@upmc.edu.

**Postdoctoral Position in Neurophysiology and Neuroimaging**

The laboratory of Dr. Ferrarelli at the University of Pittsburgh has an opening for a postdoctoral researcher. The goal of the research is to investigate the neurobiology of psychiatric disorders, and especially schizophrenia and related disorders, employing neurophysiological and neuroimaging techniques. These techniques include high-density (hd)-EEG, Transcranial Magnetic Stimulation (TMS), fMRI, and 7T Magnetic Resonance Spectroscopy Imaging (MRSI), applied both during wakefulness and sleep.

Our lab recently utilized some of these techniques to identify several putative biomarkers in patients with chronic schizophrenia, and you will be involved in novel studies assessing these biomarkers in early course psychosis and individuals at clinical high risk for schizophrenia and related disorders. Some of these biomarkers have been associated to memory, plasticity, and general cognitive ability, and tend to predict post-learning performance improvement in healthy individuals. Thus, by collecting these measures in adolescents and young adults, our studies could not only significantly contribute to an early detection and assessment of the level of risk for psychosis, but could also contribute to elucidate some of the neural circuits and mechanisms underlying learning and memory in the normally developing brain.

This position is therefore ideal for candidates who are interested in employing a multi-modal imaging approach to characterize brain circuits implicated in risk for psychosis and related cognitive dysfunctions during a critical phase of brain maturation. It will also provide the opportunity to spend time in Pittsburgh, one of the most livable and vibrant cities in the country, and to work in the Department of Psychiatry, a unique environment for young researchers to foster collaboration, be productive, and develop an independent program of research.

Applicants should send a CV and a statement of interest to the PI (ferrarellif@upmc.edu).

Candidate Profile:

1) Ph.D. in neuroscience, psychology, biology, physics, mathematics or other neuroscience-related disciplines
2) Preferred experience in one or more of the above-mentioned techniques
3) One or more first-author publications in an international, peer-reviewed neuroscience journal
4) Strong data-analysis and programming skills (MATLAB, C, R, MNE-Python, or related programming languages)
5) Proficient in spoken and written English

**Postdoctoral Position in Population Neuroscience of Aging**

A postdoctoral position is available for a highly-motivated individual to study the problems of brain aging by applying neuroscience and epidemiological methods.

The fellow will work with our eBRAIN research group, led by Dr. Caterina Rosano, at the University of Pittsburgh. eBRAIN applies cutting-edge brain imaging methods and longitudinal trajectories of risk factors to understand brain aging effects on cognitive and physical function. The anticipated research project involves collection and analysis of DTI and PET imaging of the dopaminergic system, as well as analyses and data collection of ultra- high field images at 7 Tesla. The fellow will be exposed to a highly interactive and interdisciplinary group of neuroscientists, neuro-epidemiologists, neuroimagers, and psychiatrists. Candidates must have a doctoral degree in neuroscience, epidemiology or related fields with strong quantitative skills. Technical expertise in neuroimaging techniques and the ability to learn and develop new skills are required. A strong fundamental understanding of study design is highly desirable. The successful candidate should have an excellent publication record, solid written/verbal English communication skills, strong organizational skills, and the ability to work independently.

The eBRAIN research group is situated within the Department of Epidemiology at the Graduate School of Public Health, located in the heart of the Oakland Campus, in Pittsburgh, Pennsylvania. The University of Pittsburgh is an integrated global health enterprise and one of the leading health care systems in the United States. Diverse and inclusive, University of Pittsburgh educates medical students, scientists, health care professionals and the public; conducts biomedical research; and provides patient-centered medicine to

prevent, diagnose and treat human illness.

Interested and qualified applicants are encouraged to consult http://www.publichealth.pitt.edu/home/directory/caterina-rosano
https://www.facebook.com/e.brain.pitt

Applications must include:

1) a cover letter outlining research accomplishments and career goals,
2) curriculum vitae, and
3) a list of three references with contact information (including mailing address, phone number and e-mail address) to:

Caterina Rosano, MD, MPH
Professor of Epidemiology
Graduate School of Public Health
University of Pittsburgh,
130 De Soto Street,
South Parran Hall, 5139
Pittsburgh PA, 15261
(412)-383-1294 or (412)-759-3572

http://www.publichealth.pitt.edu/home/directory/caterina-rosano
https://www.facebook.com/e.brain.pitt
http://www.caph.pitt.edu/researchprog.html

## Newly-Funded T32 in Population Neuroscience

The Graduate School of Public Health and the Department of Psychiatry at the University of Pittsburgh are pleased to announce a **new pre- and postdoctoral training program** in **Population Neuroscience of Aging & Alzheimer's Disease**. The program is co-directed by Drs. C. Rosano and M. Ganguli, with positions available immediately.

The PNA program trains highly talented individuals to pursue successful independent research in the etiology of Alzheimer's Disease and other age-related dementia (ADRD). Eligible applicants must have backgrounds in either contemporary neuroscience or population/data science. For example: PhD graduates or candidates in Epidemiology, Neuroscience, Information Science, Biostatistics, Biomedical informatics and MD/DO graduates with training in Neurology, Psychiatry, Geriatric medicine, and related disciplines. Please contact stc15@pitt.edu with questions.

## Postdoctoral Associate Positions in Systems Neuroscience

Postdoctoral positions are available in the Runyan lab in the Department of Neuroscience at the University of Pittsburgh. Our research involves dissecting inhibitory and neuromodulatory circuits across the cortical hierarchy. Our goal is to understand how changes in behavioral context and brain state shift local information processing and the transmission of information between cortical networks. We use two-photon imaging of population activity and optogenetics in head-fixed mice performing perceptual decision-making tasks. See carolinerunyan.org for more information about our work.

We are seeking individuals with experience in two-photon imaging, large-scale electrophysiology, optogenetics, and/or mouse behavior. As we build our laboratory and our own approach to understanding the brain, the ideal candidates should have strongly driven scientific curiosity and problem-solving skills, as well as excellent interpersonal skills. This position offers the opportunity to participate in building a new research program, and to work in the highly collaborative, collegial environment at the University of Pittsburgh and Carnegie Mellon University. See cnbc.cmu.edu and cnup.pitt.neurobio.edu for more details.

Interested candidates should send a CV, statement of research interests, and contact information for two references to runyan@pitt.edu.

## Postdoctoral Research Fellow in the Neuroimaging Laboratory

The Neuroimaging Laboratory at the University of Pittsburgh has a postdoctoral research fellow position open immediately. The candidate should possess a Ph.D. degree in biomedical engineering, neuroscience, or a related field, and have published scholarly articles in peer-reviewed scientific journals. The candidate should have a strong research background in brain imaging, systems neuroscience, neurophysiology (electrophysiology, neuro-metabolism and/or blood flow regulation), computation, neural engineering, and/or data analysis (signal/image processing).

Experience with rodent experimentation, advanced biological imaging (two-photon or optical microscopy or fMRI), neural tissue histology, and data analysis in MATLAB/Python are essential. The candidate will work on longitudinal imaging of rodent brain dynamics in health and disease. The candidate may also be involved in projects related to early detection of Alzheimer's disease and neural engineering depending on interests. The candidate will be working with an interdisciplinary team of radiologists, neurologists, neural engineers, material scientists and biophysicists. Candidates with experience in calcium imaging or MRI/fMRI (especially in animals) are strongly encouraged to apply.

Interested candidates should submit curriculum vitae, the names of three references, a statement of research experience, and date of availability to Alberto L. Vazquez (alv15@pitt.edu ). Information on the Neuroimaging Laboratory can be found on this website (http://neuroimaginglab.pitt.edu).

The Department of Radiology is strongly committed to a diverse academic environment and places high priority on attracting female and underrepresented minority candidates. We strongly encourage candidates from these groups to apply for the position.

The University affirms and actively promotes the rights of all individuals to equal opportunity in education and employment without regard to race, color, sex, national origin, age, religion, marital status, disability, veteran status, sexual orientation, gender identity, gender expression, or any other protected class.

**Two Post-Doc/Senior Scientist Positions in Auditory Neuroscience**

The Teichert lab at the University of Pittsburgh has openings for two postdoctoral researchers or senior scientists to study auditory function in the macaque monkey (www.teichert.pitt.edu). Scientifically, the lab is focused on identifying the neural substrate of auditory short-term memory (Teichert & Gurnsey, 2019, J Neurophys) to better understand how it can be affected in conditions such as schizophrenia. Methodologically, the lab is focused on bridging the gap between single-cells and macroscopic EEG by concurrently recording from a 1,000-channel 3-dimensional grid of LFP contacts that covers the entire volume of one hemisphere. The positions are funded by a new R01 MH120117 "Echoic memory function and physiology in the rhesus macaque" and an ongoing BRAIN Initiative RF1 MH114223 "Understanding the synaptic, cellular and circuit events in of MEG & EEG using a vertically translational cross-species approach".

The post-docs will be part of the lively and growing auditory neuroscience community at Pitt/CMU, and will benefit from the multi-disciplinary environment of the BRAIN Initiative grant led by PIs Teichert, Doiron and Salisbury as well as collaborators Chamanzar, Kass, Ghuman, Sweet, and Gonzales-Burgos. Successful applicants will likely have a strong background in one or more of the following: auditory neuroscience, non-human primate electrophysiology, or EEG/MEG source-reconstruction techniques. Applicants should send a CV and a statement of interest to Dr Teichert (teichert@pitt.edu).

**Postdoctoral Fellow/Staff Scientist/Research Associate Position: Translational Neuroscience, University of Pittsburgh**

The Torregrossa Laboratory in the Department of Psychiatry's Translational Neuroscience Program at the University of Pittsburgh is in search of a qualified post-doctoral fellows or research technicians. The position is supported by a newly funded, collaborative R01 from NIAAA (https://projectreporter.nih.gov/project_info_description.cfm?aid=9912917&icde=47306435&ddparam=&ddvalue=&ddsub=&cr=1&csb=default&cs=ASC&pball=) to investigate the interactions between alcohol exposure and sleep at a neurophysiological level in the labs of Drs. Mary Torregrossa and Yanhua Huang. The project involves the use of many advanced techniques including EEG recordings, sleep analysis, slice electrophysiology, sleep manipulations, and alcohol drinking behavior. Opportunities will also be available to work on related projects that include the use of DREADDs, optogenetics, in vivo calcium imaging and fiber photometry.

The ideal candidate will have prior experience in some of the techniques described above, with experience in slice physiology highly desired.

Qualified applicants at the post-doctoral or staff scientist level are expected to hold a recent doctoral degree in a related field and to have a strong record of productivity. Research technicians will be considered with at least a Bachelor's degree in a biological science or bioengineering related discipline and prior lab experience. Candidates are expected to work collaboratively within a collegial team and have excellent oral and written communication skills.

The Department of Psychiatry and Center for Neuroscience at the University of Pittsburgh offers a highly collaborative, top-notch research and training environment. The successful candidate(s) will become part of a large, multidisciplinary neuroscience community, and will have ample opportunities for collaboration. Training grant positions are available for competitive post-doctoral candidates who are interested in pursuing an independent academic position. Competitive salary and benefits are available.

Interested candidates should email their curriculum vitae/ biosketch, a letter of interest outlining experience and research goals, and the names and contact information of three references to torregro@pitt.edu.

**Postdoctoral Position Available**

A postdoctoral position investigating the organization and function of auditory corticofugal projection systems in behaving mice is available in the Williamson Laboratory at the University of Pittsburgh.

Details on the research focus and approaches of the laboratory can be found here:

https://www.williamsonlaboratory.com/research/

Applicants must have a PhD in Neuroscience or a relevant field and must be eligible for employment in the US. We are looking for individuals with an excellent record of research achievements and expertise at the intersection of two or more of the following areas: electrophysiology, two-photon imaging, quantitative behavior, and computational neuroscience. Applications will continue until the position is filled.

The Williamson Laboratory is the newest member of the Pittsburgh Hearing Research Center at the University of Pittsburgh. The lab is embedded within the Departments of Otolaryngology and Neurobiology, and affiliated with the Center for Neuroscience (CNUP) and the Center for the Neural Basis of Cognition (CNBC). Postdoctoral fellows will be part of a highly supportive and diverse research environment with excellent career development opportunities.

The University of Pittsburgh was ranked third in terms of total NIH funding received in 2018. The Global Livability Index (The Economist) recently ranked Pittsburgh as the second most livable city in America.

Interested candidates should email a brief statement of research interests, a CV, and the names and contact information of three references to Dr. Ross Williamson (rsw@pitt.edu).

**Research Specialist**

RESEARCH SPECIALIST POSITION AVAILABLE IN THE DEPARTMENT OF MEDICINE AT THE UNIVERSITY OF PITTSBURGH

A research technician position is available in the laboratory of Dr. Jami Saloman in the Center for Pain Research at the University of Pittsburgh. The Saloman lab uses multiple anatomical, behavioral, optogenetic, calcium Imaging and cell/molecular techniques to study peripheral mechanisms of pain as well as neuro-immune interactions in the context of cancer.

The ideal candidate will be able to work collaboratively and effectively communicate with an interactive and collegial research group. Specific job responsibilities may include mouse colony maintenance (including breeding and genotyping), performing mouse surgeries, behavioral studies (including optogenetics) and common cellular/molecular techniques.

Experience with pain behavioral assays or immunology oncology models and assays is an asset.

Requirements: Bachelor's Degree in Biology, Neuroscience, Immunology, or related field required. At least 2 years of experience working in a neuroscience or immunology oncology research laboratory.

Interested candidates should email CV/biosketch and a letter of interest to jls354@pitt.edu

**Nu Rho Psi- Neuroscience Honor Society Seeking New Members**

Nu Rho Psi is the nationally-recognized Neuroscience Honor Society with an active and growing chapter at the University of Pittsburgh. The society endeavors to encourage and promote students dedicated to the field of neuroscience. Our group includes a select number of students from a diversity of educational backgrounds all connected by their love and passion for neuroscience. We are in the process of accepting applicants for the 2019-2020 school year, both undergraduate and graduate students, and are excited to introduce a new Executive Board. Our Board is bringing a fresh wave of energy to the organization and is working on networking with Neuroscience Faculty, Medical Professionals, and Research Coordinators to provide unique and novel opportunities for our members. These connections are important for our members and allow for collaboration with many interesting programs! We also promote both member-based presentations of their research and discussions with upperclassmen to help students navigate the field in the classroom and in the lab. Each year, we offer a number of service opportunities including participating in the Walk to End Alzheimer's. Our group is hoping to increase its presence on Pitt's campus this upcoming year, and begin a new lineage of connections for our current members and students in neuroscience to come in the future! For more information, please contact: nurhopsiuniversityofpittsburgh@gmail.com.

**Alzheimer's Disease Research Center**
**Call for Letters of Intent for Developmental Projects**

One of the research missions of the Alzheimer's Disease Research Center (ADRC) at the University of Pittsburgh is to fund developmental projects to stimulate new and innovative research relevant to Alzheimer's disease. Types of research can range from basic science to psychosocial in methodology, with particular attention given to novel approaches. Proposed research may involve humans, other animals or in vitro studies. Investigators interested in clinical trials should consider applying through the NIA Alzheimer's Disease Pilot Clinical Trails FOA. The investigator is responsible for obtaining appropriate Institutional Review Board or Animal Care and Use Committee approval for the proposal. The patient population, clinical, neuropathological and neuroimaging databases of the ADRC are available resources for approved proposals. Additional resources include the database from the National Alzheimer Coordinating Center (NACC).

Eligibility: Applicants should be postdoctoral or junior faculty level investigators at the University of Pittsburgh but may be awarded to a more senior investigator whose research is primarily in areas other than AD and ADRD research or who wants to work in the dementia field.

Funding Period: April 1, 2020 to March 31, 2021

Amount: Up to $75,000 direct costs per project

Letter of Intent: A brief description of the proposed developmental project should be e-mailed to Leslie Dunn, MPH, Center Administrator (dunnlo@upmc.edu) by January 24, 2020. Please include title of the proposal, names of investigators/co-investigators, brief description of project, and a brief statement of relevance of the proposed research to the field.
Investigators invited to submit a full proposal will be notified by January 29th.

Deadline: Applications must be received no later than February 21st, 2020. (Please follow application guidelines on following page.)

For further information, please contact: Leslie Dunn, MPH, ADRC Administrator (412) 692-2731 ADRC, 4 West, UPMC Montefioredunnlo@upmc.edu

*Alzheimer's Disease Research Center -- Call for Developmental Project Proposals*
Funding Period: April 1, 2020 to March 31, 2021

Introduction: One of the research missions of the Alzheimer's Disease Research Center (ADRC) at the University of Pittsburgh is to fund developmental projects to stimulate new and innovative research relevant to Alzheimer's disease. Types of research can range from basic science to psychosocial in methodology, with particular attention given to novel approaches. Proposed research may involve humans, other animals or in vitro studies. Investigators interested in clinical trials should consider applying through the NIA Alzheimer's Disease Pilot Clinical Trails FOA. The investigator is responsible for obtaining appropriate Institutional Review Board or Animal Care and Use Committee approval for the proposal. The patient population, clinical, neuropathological and neuroimaging databases of the ADRC are available resources for approved proposals. Additional resources include the database from the National Alzheimer Coordinating Center (NACC). Applications must clearly state the significance and innovation of the proposed research to Alzheimer's disease or related disorders.

Criteria for Review: The following will be considered in evaluating the merit of a proposal:

- Soundness of scientific principles.
- Novelty of the scientific approach.
- Scientific merit.
- Likelihood of providing new and valuable insights into possible causes of treatment of Alzheimer's disease
- Background and experience of the investigator(s)
- Adequacy of the resources and environment.
- Appropriateness of the budget for the proposed work.
- Strong likelihood that the developmental project work will lead to subsequent extramural peer reviewed funding.

Eligibility: Applicants should be postdoctoral or junior faculty level investigators at the University of Pittsburgh but may be awarded to a more senior investigator whose research is primarily in areas other than AD and ADRD research or who wants to work in the dementia field. Post-doctoral fellows must have a letter of support from their mentor and department chair indicating they will be at the University through 2021. Previous recipients of ADRC Pilot Project funding are eligible. There is potential for renewed funding to a 2nd year upon invitation.

Budget Limitations: Direct cost budgets up to $75,000 will be considered. If selected, funding to start April 1, 2020. Please contact the ADRC Administrator, Leslie Dunn, MPH (dunnlo@upmc.edu) with budget questions.

**APPLICATION PROCESS:**

Letter of Intent: A brief description of the proposed developmental project should be e-mailed to Leslie Dunn, MPH, Center Administrator (dunnlo@upmc.edu) by January 24, 2020. Please include title of the proposal, names of investigators/co-investigators, brief description of project, and a brief statement of relevance of the proposed research to the field.

Investigators invited to submit a full proposal will be notified by January 29th.

**Deadline:** Applications must be received no later than February 21st, 2020. (Please follow application guidelines on following page.)

**Application Guidelines:**

The proposal should consist of the following sections:

- Title Page (ADRC version. Please request this document from ADRC Administration.)
- Abstract (Project Summary – PHS Form Page 2)
- Budget and Budget Justification (PHS 398 Form Page 4 and 5)
- Biographical Sketch(es) (New Biosketch format – Rev 09/17 approved thru 03/31/2020)
- Resources (PHS Format Page) – include Equipment
- Other Support
- Research Plan:
  1. Introduction to Application (Not applicable)
  2. Specific Aims
  3. Research Strategy: Significance; Innovation and Approach (include Preliminary Studies if applicable as well as sections for approaches to be taken to ensure robust and unbiased results, and opportunities for training and professional development
  4. Bibliography/References Cited
  5. Vertebrate Animals
  6. Select Agent Research
  7. Multiple PD/PI Leadership Plan (Not applicable)

8. Consortium/Contractual Arrangements
9. Letters of Support (e.g., Consultants)
10.Resource Sharing Plan(s)
11.Authentication of Key Biological and/or Chemical Resources, if applicable
12. PHS Human Subjects (include targeted/planned enrollment table, if applicable.)

New PHS Human Subjects and Clinical Trials Information form: There is a new form for consolidated human subjects, inclusion enrollment report, and clinical trial information. There is NOT a universal form set available for download. A PDF version of the Human Subjects and Clinical Trial information form is available on the Screenshots of individual forms are available within the application instructions: Please complete Sections 1 and 2.
(https://grants.nih.gov/grants/how-to-apply-application-guide/forms-e/general/g.500-phs-human-subjects-and-clinical-trials-information.htm)

Please provide a list of three prospective reviewers. The specific aims and hypotheses are limited to one page and the research strategy is limited to a total of six single-spaced pages based on PHS 398 (Rev. 01/2018) format and guidelines. Abstract, budget, biographical sketches and Resource sections should be on the standard forms for PHS grants (Rev. 01/2018 through 03/31/20). http://grants.nih.gov/grants/funding/phs398/phs398.html

If funded, annual progress report is required.

**Send application materials:**
Via e-mail
to adrcadmin@upmc.edu (Send Word documents. No PDFs please.) Also send one paper copy of the application to:
Leslie Dunn, MPH, ADRC Administrator
Alzheimer Disease Research Center
4-West UPMC Montefiore Hospital
200 Lothrop Street
Pittsburgh, PA 15213
For further information: Interested applicants should discuss potential submission with:
Center Director, Oscar L. Lopez,
M.D., lopezol@upmc.edu
Co-Leader, Julia Kofler, MD, koflerjk@upmc.edu
Advisory Lead, William E. Klunk, M.D.,
Ph.D., klunkwe@upmc.edu or
Center Administrator, Leslie Dunn, MPH, (412) 692-2731, dunnlo@upmc.edu