Neurotransmitter Schedule

The next *Neurotransmitter* will be published and mailed electronically on **Tuesday, January 21, 2020**. All seminar announcements and notices must be submitted to Natalee Bright via email ([CNUP@pitt.edu](mailto:CNUP@pitt.edu)) no later than 12:00 noon on **Thursday, January 16, 2020**.

Notices

**Tues., 01/07 10:00 a.m.**

The Department of Neurobiology presents a special lecture: **Activating 26S Proteasomes Via Cyclic GMP to Combat Neurodegenerative Diseases**

Room: Jordan VerPlank, PhD
S100A, Biomedical Science Tower, South

(Sponsored by the Department of Neurobiology)

**Wed., 01/15 4:00 p.m.**

Pittsburgh Center for Pain Research Seminar Series: **Osteoarthritis Pain: Effects of Site, Sex, and Exercise**

Room: 1495 Biomedical Science Tower

(Sponsored by the Pittsburgh Center for Pain Research)

**Fri., 02/07 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 WNIC
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?

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

(Sponsored by the Department of Psychiatry)

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/](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.

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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.

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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 (ferrarelli@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
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, neuroepidemiologists, 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](http://www.publichealth.pitt.edu/home/directory/caterina-rosano) and [https://www.facebook.com/e.brain.pitt](https://www.facebook.com/e.brain.pitt) for more information about our lab and our research.

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

Newly-Funded T32 in Population Neuroscience of Aging & Alzheimer's Disease

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](mailto: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](http://carolinerunyan.org) for more information about our lab.

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
Two Post-Doc/Senior Scientist Positions in Auditory Neuroscience

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 (http://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 RFI 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 postdoctoral 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&pbhall=) 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/](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 Liveability 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).

**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.