



Postdoc Position in Alzheimer's Disease Risk Genes - Neurovascular Interactions

An NIH-funded postdoctoral position is available to study the functional impact of Alzheimer's disease risk genes on neurovascular interactions. Studies will perform in vivo phenotyping and functional testing of endothelial Alzheimer's disease risk genes. Our studies utilize a variety of approaches, including in vivo cerebral blood flow measurements, in vivo gene manipulation (AAVs), cognitive behavioral testing, endothelial transcriptome (TRAP-seq), endothelial transcriptomics, molecular biology, immunohistochemistry, mouse models of metabolic disease and mouse models of Alzheimer's disease.

Collaborations:

This project is part of a multi-center U01 grant under the Alzheimer's Disease Sequencing Project Functional Genomics Consortium. The postdoc will have frequent interactions with PIs on the U01 including Dr. Kristen Zuloaga and Dr. Kevin Pumiglia (co-PI's of this portion of the U01, Albany Medical College), Dr. Sally Temple (Neural Stem Cell Institute), Dr. Martin Kampmann (UCSF), Dr. Celeste Karch (Washington Univ) and Dr. Oscar Harari (Washington Univ) as well as the NIA program officer and other consortium members.

Mentorship Environment:

Our research group values open communication, motivation, optimism, mutual respect, teamwork, and innovative thinking. Dr. Zuloaga and Dr. Pumiglia are highly committed to individualized mentoring plans to help trainees achieve the scientific career they desire. At a minimum, the training environment will include: professional/career development (Dr. Zuloaga co-Directs the New York Capital Regional Postdoctoral Development Program), one-on-one meetings, group lab meetings, consortium meetings, departmental neuroscience seminars and journal clubs, opportunities to present your work at national and international scientific conferences, and manuscript preparation for publication in high quality journals. In addition, Drs. Zuloaga and Pumiglia have strong funding records for both themselves and their trainees and will personally provide mentorship for postdoctoral fellowship and/or K99 or Career Development grant applications when desired by the applicant. Please visit our lab websites for more information: <http://www.zuloagalab.com> and <https://www.amc.edu/Profiles/pumiglik.cfm>

About the PI's and Albany Medical College:

Dr. Zuloaga is an Associate Professor in the Department of Neuroscience and Experimental Therapeutics (DNET) at Albany Medical College, co-Director of the New York Capital Region Postdoctoral Development Program, co-Chair of Education for the Organization for the Study of Sex Differences, and on the Scientific Advisory Board for the Albert Research Institute for White Matter and Cognition. The interdisciplinary nature of her research has allowed her to establish active collaborations with faculty in each of the biomedical science departments at Albany Med. She has received external funding at every stage of her career, including pre-doctoral (AHA and other foundations), postdoctoral (awarded by NIH, and multiple foundations), career development/transitional (AHA) and independent (current NINDS R01s, NIA U01, foundations). DNET is rapidly expanding, with six new faculty members being recruited in the past four years, each with a focus on promoting translational research.

Dr. Kevin Pumiglia is a Professor in the Department of Regenerative and Cancer Cell Biology at Albany Medical College with a long-standing interest in cellular signaling and how it influences endothelial and blood vessel phenotype. We have maintained extramural funding for over 25 years from a diverse array of private and public sources including AHA, ACS, NIH, and CDMRP, in addition to several private foundation awards. The lab uses a hierarchical approach from molecular cell biology to complex in-vivo modeling to study disease related changes

in the vasculature. Dr. Pumiglia is committed to high quality, reproducible science, in an open and collaborative environment.

Albany Medical College is an integral part of a large and active neuroscience community in Albany, which includes SUNY Albany, Wadsworth Center, Rensselaer Polytechnic Institute, and the Neural Stem Cell Institute.

Requirements:

Candidates should have a Ph.D. in Neuroscience, Biomedical Sciences, Bioinformatics, Genetics, Physiology, or related discipline, should be highly motivated, and should be able to work both independently and as part of a team. A passion for science, excellent communication (oral and written), organizational skills, and a positive attitude are required. Bioinformatics expertise, genetics expertise, and/or a background in dementia, vascular physiology or neuroendocrinology are desired. Successful candidates will possess a strong track record of publication.

The position is funded by a recently awarded U01 (up to 5yrs of funding available for this position at NIH salary levels) and comes with healthcare benefits.

We value and welcome diversity, those traditionally underrepresented in STEM are highly encouraged to apply.

Applications for the position should include a CV, contact information for three professional references, and a cover letter describing major achievements, technical skills, career goals, and how you see your research interests fitting within the scope of our research program. Please send application materials to Dr. Kristen Zuloaga at zuloagk@amc.edu