A Postdoc or contract biologist position is available at the National Institutes of Health, National Eye Institute, Division of Intramural Research, Section on Epithelial and Retinal Physiology and Disease, to investigate cell signaling and membrane mechanisms that mediate transport across the RPE.

In the eye, the retinal pigment epithelium (RPE) transports fluid and a variety of metabolites between the neural retina and the choroidal blood supply (Miller et al., Encyclopedia of the Eye, 2010). Many neurodegenerative diseases that originate in the RPE/retina complex result in severe vision loss or blindness following abnormal fluid accumulation in the extracellular (or subretinal) space between the distal retina and the RPE apical membrane (e.g., diabetic retinopathy, age related macular degeneration/AMD). The RPE can be thought of as a metabolic engine that is homeostatically activated to control volume and chemical composition changes in the subretinal space following neurodegenerative disease. We utilize a variety of molecular and iPS cell biology, cell physiology, biophysical, and animal model techniques as preclinical models to better understand the molecular and cellular basis for these degenerative diseases (Miyagishima, et al, 2017).

Applicants must have a strong background in one or more of the following areas: biophysics, bioengineering, electrical engineering, or physiology. Job will require work with custom made setups to measure fluid transport, electrical characteristics of cells using intracellular microelectrodes, and different ion concentrations using ion-sensitive fluorescence dyes. Previous experience working with cell culture is desirable along with experience in cell biology. Good communication skills, both oral and written are required. Integrity, enthusiasm, motivation, independence, and outstanding collaboration skills are desired.

Please send your curriculum vitae, cover letter (including research interests), and the names of three referees via email to Mica McNair at mica.mcnair@nih.gov. The position will remain open until filled.

The NIH is dedicated to building a diverse community in its employment programs. HHS, NIH, and NEI are Equal Opportunity Employers.
University of Mississippi Medical Center

Faculty Positions in Pharmacology

The Department of Pharmacology and Toxicology at the University of Mississippi Medical Center in Jackson, MS invites applications for two new tenure-track positions at the Assistant or Associate Professor level. Candidates must hold a Ph.D., PharmD. and/or M.D. degree with appropriate postdoctoral or academic experience. Successful applicants will be expected to maintain an extramurally funded research program and participate in our graduate, medical and/or dental teaching programs in the area of neuropharmacology. Preference will be given to applicants with extramural funding and research interests using molecular and cellular approaches to identify new genes, targets and treatments for dementia, neurodegenerative diseases, stroke or traumatic brain/spinal cord injury. Successful candidates may qualify for membership and newly constructed research space in the UMMC Neuroscience Institute (NSCI). Serious consideration will also be given to outstanding applicants in other areas that complement the department’s current research efforts in cardiovascular, cell signaling, renal and cancer drug development. The salaries for both positions are fully-funded and will include a competitive startup package. The department has state-of-the-art core facilities for mass spec, histology, confocal and ultrasound imaging, flow cytometry and genomics. The positions also have access to Institutional Core Facilities for animal behavioral testing, bioanalytical measurements and genetically engineered animal models. Information about the Department of Pharmacology and Toxicology can be found at https://www.umc.edu/pharmacology. Review of applications will begin in July 2017 and continue until the positions are filled. We strongly encourage women and members of underrepresented groups to apply. EOE, M/F/D/V. Send a Curriculum Vitae, statement of research interests, and contact information for three references to:

Chair of the Search Committee
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