Post-doctoral Associate

Salary Amount-Yearly: $50,000 – $68,000, depending on experience and qualifications. This is a fully funded 3-year position, renewable annually based on successful performance, with the potential to extend to a 5-year position.

Minimum Qualifications

- MD or PhD in Basic Sciences, Health Sciences, or a related field

Preferred Qualifications

- MD or PhD in neuroscience, cell/molecular biology, genetics/genomics, biomedical engineering or a closely related field. A strong publication record is preferred.

Position Summary:

The Mezu-Ndubuisi Lab at the University of Rochester in the Departments of Pediatrics and Ophthalmology is seeking a motivated, highly qualified, and creative scientist with expertise in retinal pathophysiology and cellular/ molecular biology to join our collaborative, interdisciplinary research program

The post-doctoral candidate will report to Principal Investigator in conducting vision science research both in a basic and clinical sciences. The successful candidate will have the opportunity to contribute to research exploring mouse model of oxygen-induced retinopathy using *in vivo* and histological techniques, investigating the molecular mechanisms of disease and evaluating potential novel therapies. Ideal candidates will have experience directly managing and supervising research projects throughout a project lifecycle. Candidate must be detail-orientated, self-motivated, a quick learner, collaborate well with team members, and have excellent problem-solving skills. Applicants must be passionate about conducting scientific research, demonstrate ethics and integrity, and can work both independently and as an effective member of a team with research and clinical staff.

When you join the Mezu-Ndubuisi lab in the Departments of Pediatrics and Ophthalmology, you will be working in a collaborative environment which will enable you to continuously improve yourself, and assist us in working on challenges that truly matter with people that care for each other. The University of Rochester has an active Postdoc Association that provides highly enriched environment for postdocs including career development workshops and social opportunities to get to know other postdocs. Rochester is a lovely, multi-cultural city with great character and friendly people.

Project Description: Retinopathy of Prematurity is a potentially blinding condition in premature infants exposed to supplemental oxygen and other contributing risk factors, characterized by aberrant retinal angiogenesis and dysregulation of vascular endothelial growth factor with long-standing effects on neurodevelopment due to unclear molecular mechanisms. The successful applicant will lead projects aimed at elucidating molecular mechanisms and exploring therapies in a mouse model of oxygen-induced retinopathy. Relevant techniques to be utilized include Ocular imaging (fluorescein angiography, spectral domain optical tomography, electroretinography, animal tissue extraction for histological and molecular studies (immunohistochemistry, ELISA, qPCR's, Western Blot, flow cytometry, RNA sequencing, microarray, etc.). The position will also involve authorship of manuscripts and presentation of data at national and international conferences. New graduates or those having completed all formalities of graduation should apply. Training will be provided as needed.

The University of Rochester is committed to fostering, cultivating and preserving a culture of equity and inclusion. The University believes that a diverse workforce and inclusive workplace culture enhances the performance of our organization and our ability to fulfill our important missions. The University is committed to fostering and supporting a workplace culture inclusive of people regardless of their race, ethnicity, national origin, gender, sexual orientation, socio-economic status, marital status, age, physical abilities, political affiliation, religious beliefs or any other non-merit fact, so that all employees feel included, equal valued and supported.

Position opening date: August 15, 2022. This position will remain open until filled.

To apply: Please submit your a brief statement of interest, research accomplishments and career goals (2-page max), along with CV, and contact information for three reference letters to Dr. Olachi Mezu-Ndubuisi, Olachi_MezuNdubuisi@URMC.Rochester.edu

For questions, please contact the principal investigator:

Olachi J. Mezu-Ndubuisi, MD, OD

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