

Shukti Chakravarti, MS., Ph D

Professor
Department of Ophthalmology and Pathology
Director of Basic Science Research
Interim Vice Chair of Research
Department of Ophthalmology
NYU Langone Health
Science Building, Room 507
435 E 30th Street
646-501-8464 (office) 646-501-8470 (Lab)
Email: Shukti.Chakravarti@nyulangone.org
New York, NY10016



Extracellular matrix - immune cell interactions and regulation of host immune response

The laboratory of **Shukti Chakravarti at NYU** has an NIH funded postdoctoral position to investigate immune regulatory signals from the extracellular matrix (ECM) that shape infection, inflammation and autoimmunity. Our pioneering work on the ECM of the cornea identified lumican as a major structural protein. Our recent studies indicate that lumican and other related ECM proteins are widely expressed throughout the body where they regulate functions of immune cells (*PNAS*, 2021).

We are interested in recruiting a post-doctoral fellow to further investigate molecular mechanisms in these ECM-immune cell interactions and regulatory gene expression using specific ECM gene targeted mice, ChIP seq and ATAC sequencing. We are also using synthetic peptides and organoid and cell culture systems to explore specific signaling pathways. The ideal candidate will have a strong background in cell/ECM biology, molecular biology and human and mouse immunology. We expect the candidate to have significant training in cell culture, flow cytometry, mouse immunological techniques and some training in computational biology. The applicant will be expected to work independently and in a collaborative setting.

Our laboratory at NYU Grossman School of Medicine is located in the new Science Building in exciting and dynamic Manhattan! We have a wonderful, interactive group and collaborations with Ophthalmology, Cell Biology, Microbiology, Pathology and the state-of-the-art Genome Technology Center at NYU. To learn more about our research visit <https://www.shukti-chakravarti-lab.org/>

NYU Langone Health post-doctoral fellows are eligible for health insurance; vacation and sick time; assistance in securing housing and for international fellows help in filling out the necessary paperwork. Visit the following link for more information.
<https://med.nyu.edu/research/postdoctoral-training/resources-postdoctoral-fellows>

To apply submit a curriculum vitae, a research statement and two names of references to:

Shukti Chakravarti, PhD

Professor
Department of Ophthalmology and Pathology
NYU Langone Health
Shukti.Chakravarti@nyulangone.org