

## 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



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### **Postdoctoral position to investigate keratoconus genetics and functions of candidate genes**

The laboratory of **Shukti Chakravarti at NYU** has a postdoctoral position to investigate the genetic causes of keratoconus using whole exome and genomic sequencing of familial and isolated cases. Our recent study of affected families identified multiple extracellular matrix and microtubule related-genes with variants that likely contribute to keratoconus (Shinde, Sobreira, Wohler et. al.,2021, Hum. Mol. Genet.17;30:658-671).

We are interested in recruiting a post-doctoral trainee to follow up with CRISPR-Cas9 gene editing of keratoconus candidate genes we have already identified, and investigate these in organoid and mouse models. We are recruiting isolated keratoconus subjects for whole exome and genomic sequencing to identify causal gene networks in keratoconus. We expect the candidate to have significant training in genetics, molecular genetics and cell 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@nyumc.org