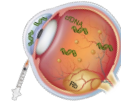




# Keck School of Medicine of USC



Children's Hospital Los Angeles and Keck School of  
Medicine of USC Ocular Oncology Fellowship

The Children's Hospital Los Angeles is recruiting talented MD (or MD/PhD) candidates for a 2-year post ophthalmology residency fellowship in ocular oncology under the leadership of Jesse L. Berry, MD and Liya Xu, PhD.

This unique training experience will have a focus on retinoblastoma, adult ocular tumors, and liquid biopsy applications (clinical and research). There is also an opportunity for comprehensive ophthalmology experience based on interest.

Goal of the fellowship include:

- Gain comprehensive knowledge and understanding of retinoblastoma, uveal melanoma, ocular surface and secondary tumors.
- Develop expertise in the medical and surgical management of ocular oncology conditions in adults and children.
- Participate in multi-disciplinary clinical teams for the management of complex adult and pediatric cancer patients.
- Acquire proficiency in collecting and analyzing aqueous humor samples from retinoblastoma patients.
- Learn the principles and techniques of genetic and genomic testing, with a focus on identifying somatic copy number alterations (CNAs) and single nucleotide variants (SNVs).
- Develop expertise in utilizing advanced genomic technologies, such as next-generation sequencing (NGS) and microarray analysis, to profile genomic alterations in aqueous humor and tumor samples.
- Apply bioinformatics tools and computational approaches to analyze genomic data obtained from retinoblastoma and uveal melanoma samples.
- Gain insights into the clinical implications of somatic CNAs and SNVs in ocular tumors, including their role in prognosis, treatment response, and potential therapeutic targets.
- Contribute to the advancement of retinoblastoma and uveal melanoma research by generating high-quality scientific publications and presenting findings at conferences or scientific meetings.
- Foster interdisciplinary collaboration and communication skills by engaging with experts from various fields, such as ophthalmology, oncology, genetics, and bioinformatics.
- Develop leadership qualities by actively participating in research discussions, mentoring junior lab members, and potentially supervising undergraduate or graduate students.

Interested applicants should submit their CV and a statement of interest to [npanameno@chla.usc.edu](mailto:npanameno@chla.usc.edu)

Jesse L. Berry, MD  
Fellowship Program Director  
Director, Ocular Oncology and  
Retinoblastoma Program  
Vice Chair, Academic Affairs, Department of Surgery  
A. Linn Murphree, MD, Chair in Ocular Oncology  
Children's Hospital Los Angeles  
Berle and Lucy Adams Chair in Cancer Research  
Associate Professor of Ophthalmology, Clinical Scholar,  
Keck School of Medicine of USC

Liya Xu, PhD  
Associate Program Director, Ocular  
Oncology Fellowship  
Director, Liquid Biopsy Laboratory  
Children's Hospital Los Angeles  
Assistant Professor of Research  
Ophthalmology  
Keck School of Medicine of USC