

# Cornea Service

Doheny Eye Centers



**T**he Cornea Service of the Doheny Eye Centers consists of six highly trained physicians -- Drs. Smith, Irvine, Song, Huang, Memarzadeh and Yiu -- whose unique but overlapping clinical interests provide the Cornea Service with a rich array of diagnostic acumen, and surgical expertise. Their combined years and breadth of experience allow them to offer in-depth consultation and second opinions for ophthalmologists and patients throughout the western United States.

The Doheny Cornea Service utilizes the most modern technology to seek solutions to clinical dilemmas. Surgical options for corneal disease now include endothelial and anterior lamellar transplants, as well as the more traditional penetrating keratoplasty. The recent acquisition of a Femtosecond laser expands the possibilities for better keratoplasty outcomes. Intralase enhanced keratoplasty (IEK) promises to advance the standards for surgical outcomes by improving and customizing trephination of both host and donor corneas to improve healing and decrease astigmatism. Furthermore, ongoing clinical trials are looking at enhanced outcomes for corneal implantation, anterior segment disorder diagnosis, and post refractive surgery IOL calculation reliability.

Whatever the question - whether it is infectious diseases, refractive surgery, degenerative conditions, or post-op complications - our specialists draw upon their extensive resources, collaborations, and experience to better serve our community physicians and patients.

**EYE ON THE FUTURE**



## John Irvine, MD

Dr. Irvine earned his medical degree from the Keck School of Medicine of USC. He completed both his residency and a fellowship in Cornea and External diseases at the Massachusetts Eye and Ear Infirmary, Harvard University. He is Director of Continuing Medical Education for the Doheny Eye Institute, Associate Medical Director of the Doheny Eye and Tissue Bank, and a past-President of the Los Angeles Society of Ophthalmology.

Dr. Irvine has been named in Woodward and White's "Best Doctors in America," and has been included in Los Angeles magazine's list of the best ophthalmologists in Los Angeles. He has also served as a volunteer for Orbis International, which strives to improve vision care in countries all over the world. His clinical interests include cornea and external disease, complications of cataract surgery, and tumors of the ocular surface.



## Ronald Smith, MD

Dr. Smith graduated in 1967 from Johns Hopkins University School of Medicine in Maryland. After completing his residency at the Wilmer Eye Institute, he completed a fellowship in Uveitis, Cornea and External Disease at the Proctor Foundation at the University of California, San Francisco.

Currently he serves as Professor and Chair of the USC Department of Ophthalmology, which he joined in 1975. He maintains his long-standing clinical and research interest in external eye disease, cornea and uveitis.



## Samuel Yiu, MD, PhD

Dr. Yiu received a bachelor's degree in Chemistry, a master's in Applied Biometry, and a doctorate in Physiology & Biophysics from USC. He received his medical degree from the University of Alberta and completed his residency in ophthalmology at Dalhousie University in Canada. His postdoctoral fellowship in Cornea/External Diseases and Refractive Surgery was completed at the Doheny Eye Institute/USC.

Dr. Yiu's interests in dry eye conditions and dysfunctional tear film pathophysiology are the cornerstones for the ocular surface surgical procedures he performs, including limbal stem cell transplant and amniotic membrane grafting techniques from which many patients benefit.

*Doheny's mission is: "to further the conservation, improvement and restoration of human vision."*

DOHENY's vision is to become a premier vision research, education, and tertiary patient care eye institute of ophthalmology and vision science. The Doheny Eye Institute is a not-for-profit charitable enterprise with three objectives: to increase knowledge of the human eye and diseases through research, to apply this knowledge to the community service.



### Jonathan Song, MD

Upon completion of his undergraduate studies at Cal Tech, Dr. Song earned a medical degree from the University of California San Francisco and completed his residency at the Doheny Eye Institute/USC where he also served as chief resident.

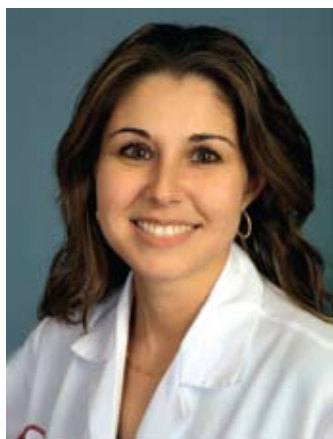
After completing fellowships in Pediatric Ophthalmology at Childrens Hospital Los Angeles (CHLA) and Cornea/Refractive Surgery at the Doheny Eye Institute, Dr. Song joined the faculty at the Keck School of Medicine of USC in 1999 as director of the Cornea and Refractive Surgery Center at CHLA, where he focuses on pediatric anterior segment disorders, including cataracts, corneal disorders, and glaucoma. His adult practice at Doheny is focused on corneal and external diseases and refractive surgery.



### David Huang, MD, PhD

Dr. Huang earned his medical degree from Harvard Medical School. He completed his ophthalmology residency training at the Doheny Eye Institute/USC and fellowship training in Corneal Diseases and Refractive Surgery at Emory University. He also earned a PhD in Medical Engineering and Medical Physics from the Massachusetts Institute of Technology where he was a co-inventor of optical coherence tomography (OCT), a high-resolution cross-sectional imaging technology that is now indispensable in the diagnosis of eye diseases.

Dr. Huang is the Director of the Doheny Laser Vision Center.



### Farnaz Memarzadeh, MD

Dr. Memarzadeh graduated from the University of Pittsburgh School of Medicine and completed her residency in ophthalmology at University of California, Irvine. She completed two fellowships: one in Cornea/External Disease and Refractive Surgery and the other in Glaucoma, both at the Doheny Eye Institute/USC.

Her practice focuses on the surgical treatment of combined corneal disease and glaucoma, as well as on cataract and refractive surgery. She is actively involved in the teaching of cataract and glaucoma surgery to the USC ophthalmology residents and fellows.



**Doheny Eye  
Centers**

A Division of Doheny Eye Medical Group, Inc.

For the convenience of our referring physicians and patients, the Doheny Eye Centers provide services at six locations in Southern California.

**Arcadia**

622 W. Duarte Road, Suite 101  
Arcadia, CA 91007  
626 446 2122

**Los Angeles**

USC Health Sciences Campus  
1450 San Pablo Street  
Los Angeles, CA 90033  
323 442 6335

**Orange**

2617 E. Chapman Avenue, Suite 301  
Orange, CA 92869  
714 628 2966

**Pasadena**

10 Congress Street, Suite 300  
Pasadena, CA 91105  
626 395 0778

**Rancho Mirage**

40-055 Bob Hope Drive, Suite J  
Rancho Mirage, CA 92272  
760 320 2133

**Riverside**

4440 Brockton Avenue, Suite 330  
Riverside, CA 92501  
951 788 1231

**Doheny Laser Vision Center**

USC Health Sciences Campus  
1450 San Pablo Street  
Los Angeles, CA 90033  
323 442 6377

**CORNEAL  
DIAGNOSTIC  
RESOURCES**

- Orbscan
- Corneal Topography
- Wavefront Analysis
- Hi-Speed OCT Analysis
- Confocal Microscopy
- Specular Microscopy
- Ultrasonic Biometric Analysis (UBM)



Doheny Eye Centers  
1450 San Pablo Street, Los Angeles, CA 90033  
Tel 323 442 6335 Fax 323 442 6338  
[www.doheny.org](http://www.doheny.org)

**TRANSLATING RESEARCH TO PATIENT CARE**