

Neuro-Ophthalmology



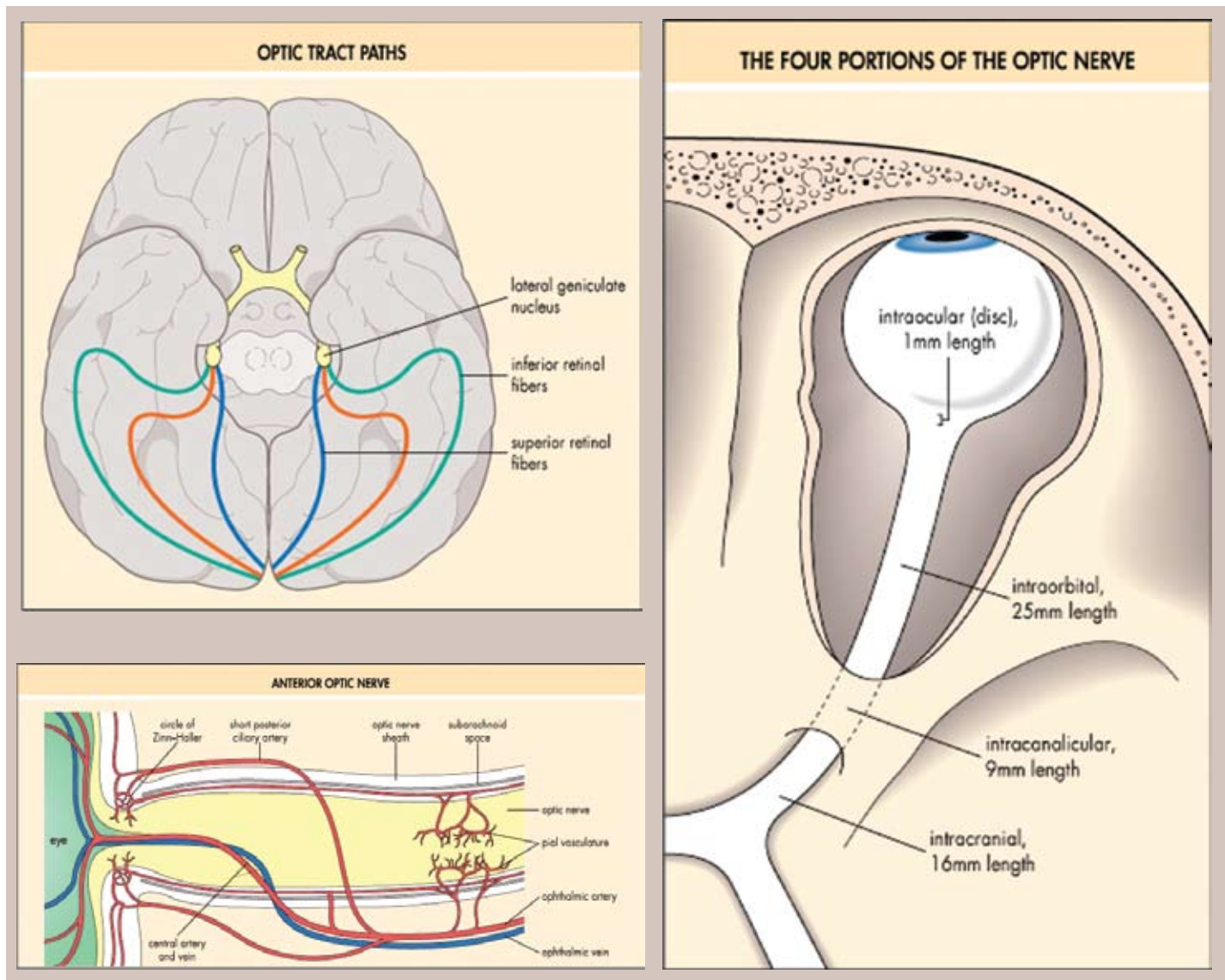
**Doheny Eye
Centers**

A Division of Doheny Eye Medical Group, Inc.

The faculty of the Neuro-Ophthalmology Service of Doheny Eye Medical Group are leading clinician - researchers in the area of vision and the brain.

The eye does a good job of acquiring focused visual images, but it must send these images to the brain for recognition. While the transfer of light to electrical impulses, occurs in the retina, this information is channeled through 1.2 million fibers that constitute the optic nerve. The very cell that begins in the retina has the end of its fiber projection in the brain. In fact, there are nine centers in the brain that receive visual information for various purposes. The brain, in turn, makes images and otherwise acquires this information for modulation of behavior. The brain helps the eyes acquire and track information through three cranial nerves and six muscles per eye. Neuro-ophthalmic diseases include those that affect either the acquisition of visual information from the optic nerve, the processing of visual information in the brain, or the control of eye movements.

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Doheny's mission is "to further the conservation, improvement and restoration of human eyesight"
 (Carrie Estelle Doheny – 1947).

DOHENY's vision is to be a vital player in vision research, education, and tertiary patient care eye institute through the discovery of new knowledge, innovative eye care, and the education of the leaders of ophthalmology and vision science. The Doheny Eye Institute is a not-for-profit charitable enterprise dedicated to the conservation, improvement, and restoration of human eyesight. Doheny is guided by three objectives: to increase knowledge of the human eye and ocular diseases through research, to apply this knowledge to patient care, and to transmit this knowledge through education, training and community service.

Doctors of USC



Alfredo A. Sadun, MD, PhD

Dr. Alfredo Sadun attended the Massachusetts Institute of Technology (MIT) where he received a BS and began graduate studies. He received his PhD and MD degrees from the Albert Einstein College of Medicine.

Dr. Sadun then completed an internship in medicine and a residency in ophthalmology at the Massachusetts Eye and Ear Infirmary at Harvard Medical School. Following a chief residency, also at Harvard, he completed a clinical fellowship in ophthalmology at Boston University School of Medicine and Harvard Medical School. Dr. Sadun's main area of interest has been the optic nerve. He and a team of researchers at the Doheny Eye Institute pioneered various techniques for investigating the optic nerve. These proved to be seminal in understanding the role of the optic nerve in Alzheimer's disease.

His research and clinical expertise in diseases of the optic nerve also led to his selection as head of a team of investigators that determined the metabolic cause of an epidemic of optic neuropathy in Cuba in 1993-1994. More recently, Dr. Sadun has led a large international team of investigators to field investigations in Brazil of the world's largest pedigree of extended family members with Leber's hereditary optic neuropathy, a blinding disease of the optic nerve. Dr. Sadun holds the Flora Thornton Endowed Chair of Vision Research and is a professor of ophthalmology and neurological surgery at the Doheny Eye Institute, Keck School of Medicine of USC. His research interests include diseases of the optic nerve, optic nerve regeneration, neuroprotection, and mitochondrial optic neuropathies. His clinical interests include neuro-ophthalmology with particular emphasis on optic neuropathies, orbital disease, and paralytic muscle surgery.



Peter Quiros, MD

Dr. Peter Quiros is an assistant professor of ophthalmology at the Doheny Eye Institute, Keck School of Medicine of USC. He completed undergraduate work at Columbia University's Columbia College, graduating with honors. He earned his MD from the Yale University School of Medicine in New Haven, CT, where he was elected to the prestigious medical honor society Alpha Omega Alpha. He completed his residency training at the Doheny Eye Institute/USC Department of Ophthalmology and completed a two-year fellowship in neuro-ophthalmology at the same institution. He serves as director of the neuro-ophthalmology fellowship program and as associate residency program director for the USC department of Ophthalmology. Dr. Quiros is board certified in ophthalmology and has been elected a fellow of the North-American Neuro-Ophthalmology Society.

Dr. Quiros' research interests include optic nerve disease, diplopia (double vision), headache and eye pain, and paraneoplastic and autoimmune disorders, as well as orbital inflammatory syndromes, including thyroid eye disease.

Dr. Quiros' current research projects include an international study in Brazil for mitochondrial optic nerve disease, the Prevention of Generalization of Myasthenia Gravis clinical trial, the Idiopathic Intracranial Hypertension Treatment Trial, a study of the prognosis and complications of Graves' disease, and development of new techniques for the treatment of strabismus. Dr. Quiros is also engaged in ophthalmic education and has served as a member of the International Council of Ophthalmology's team of instructors for educating ophthalmic educators to improve residency training outside North America. He currently serves as the English language secretary for the Pan-American Association of Ophthalmology.



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.

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Los Angeles

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714 628 2966

Pasadena

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Rancho Mirage

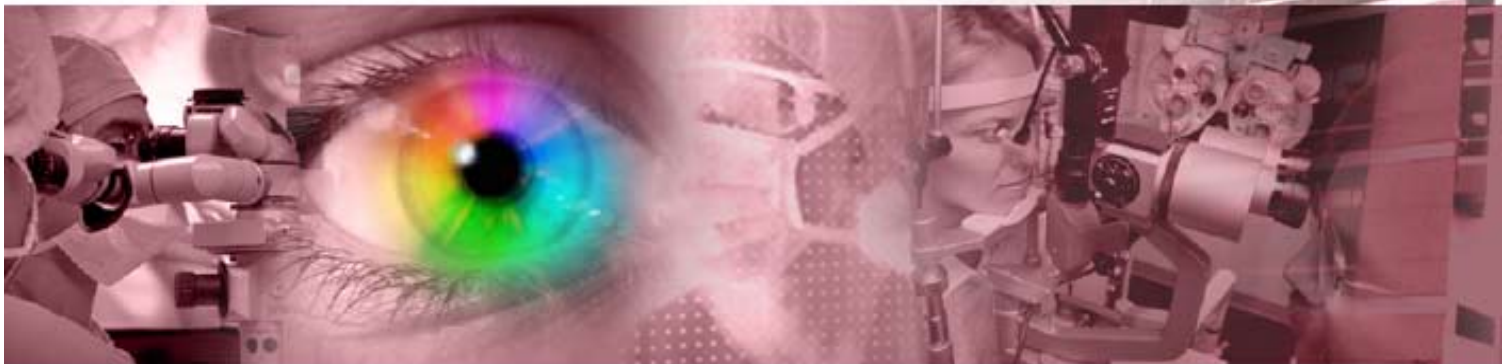
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TRANSLATING RESEARCH TO PATIENT CARE