

Thomas M. O’Hearn, MD, MSc



Retina Eye Specialists

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Education

- 1993-1997 **Towson University**
B.S. Biology, French Minor, *Summa Cum Laude*
- 1998-2003 **University of Maryland School of Medicine**
M.D. received May 2003, *Cum Laude, AOA*
- 2003-2004 **LAC+USC Medical Center** - Medicine Intern
- 2003- 2009 **USC Keck SOM** – Masters of Science in Cell and Neurobiology
- 2004- 2007 **Doheny Eye Institute, LAC+USC** -Resident in Ophthalmology
- 2007- 2009 **Doheny Eye Institute** -Vitreoretinal Surgical Fellow

Professional Organizations

- 2001-2, 2005-present Member Association for Research in Vision and Ophthalmology.
- 2005- present Member American Academy of Ophthalmology
- 2006- present Member California Academy of Ophthalmology
- 2008- present Member American Society of Retina Specialists
- 2008-present Board Certified, American Board of Ophthalmology

Honors and Awards

- 2007-2008 **Heed Fellow**, The Heed Ophthalmic Foundation
- 2002 Elected to **AOA Honor Society**
- 2001-2002 Honors received in Junior Clerkships in: Surgery, Medicine, Neurology, Pediatrics, Psychiatry, Junior Research Elective in Ophthalmology, Senior Clinical Elective in Ophthalmology
- 1997 James Edward Ewig Memorial Scholarship for Academic Achievement by a Senior (Towson University)
- 1995-1997 $\beta\beta\beta$ -Biological Honor Society (Towson University)
- 1993-1997 Maryland State Distinguished Scholar (this award carried with it a yearly renewable scholarship equivalent to full tuition)

Research

- Sept. 2000 **Research Assistant**
- June 2001 Mark Humayun M.D., Ph.D., Wilmer Eye Institute, Johns Hopkins Hospital
During a year spent as a full time research assistant I performed ganglion cell recordings of induced electrical responses in isolated retina, as part Mark Humayun’s Intraocular Retinal Prosthesis project
- Feb.-April 2001 **Fellow Fogarty International Research Training Program**
Through the Malaria Research Training Center I spent 9 weeks working in both urban and rural settings in Mali in West Africa. I worked in multiple clinics including L’Institut IOTA (the regional eye hospital) as well as general medical and Leprosy clinics. Part of

my stay was also spent performing basic field research and providing primary care in rural villages.

2002/2005-2008 **Presenting Author at the Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting**

Fall 2003-2009 **Full-time graduate student, Department of Cell and Neurobiology USC SOM**

My thesis project centers on the demonstration of the efficacy and feasibility of vitreous oxygenation as a therapeutic modality for retinal vein occlusions and other ischemic retinopathies.

Publications

Peer Reviewed Papers:

1. **O'Hearn, TM**, Geiseler, JP, Bhatti, R, Elliott, D. Control of disseminated *Scedosporium prolificans* infection and endophthalmitis.
–In press Retinal Case Series and Brief Reports
2. Esmaili DD, Chang EL, **O'Hearn TM**, Smith RE, Rao NA. Simultaneous presentation of Kimura's disease and Angiolymphoid Hyperplasia with Eosinophilia. *Ophthal Plast Reconstr Surg.* 2008 Jul-Aug;24(4):310-1.
3. Li, G, **O'hearn, T**, Yiu, S, Francis, BA. Amniotic Membrane Transplantation for Intraoperative Conjunctival Repair During Trabeculectomy With Mitomycin C. *J Glaucoma.* 2007 Sep;16(6):521-526.
4. **O'Hearn, TM**, Fawzi, A, He, S, Rao, NA, Lim, JI. Early onset vitreous amyloidosis in Familial Amyloidotic Polyneuropathy with a rare transthyretin Glu54Gly mutation is associated with elevated vitreous VEGF. *Br J Ophthalmol.* 2007 Dec;91(12):1607-9. Epub 2007 May 23.
5. **O'Hearn, TM**, Fawzi, A, Esmaili, D, Javaheri, M, Rao, NA, Lim, JI. Presumed Ocular Tuberculosis Presenting as a Branch Retinal Vein Occlusion in the Absence of Retinal Vasculitis or Uveitis. *Br J Ophthalmol* 2007; 91(7):981-2.
6. Javaheri, M, Khurana, RK, **O'Hearn, TM**, Lai, M, Sadun, AA. Linezolid induced optic neuropathy: a mitochondrial disorder?. *Br J Ophthalmol* 2007; 91(1):111-5.
7. **O'hearn TM**, Sadda SR, Weiland JD, Maia M, Margalit E, Humayun MS. Electrical stimulation in normal and retinal degeneration (rd1) isolated mouse retina. *Vision Research* 2006; 46(19):3198-3204.
8. Shyu, J-S, Maia, M, **O'Hearn, T**, Chen, S-J, Margalit, E, Suzuki, S, Piyathaisere, D, Weiland, J, de Juan Jr, E, Humayun, M. Electrical Stimulation in Isolated Rabbit Retina. *IEEE Trans Neural Syst Rehabil Eng* 2006 14(3):290-8.
-A typo in this citation left the apostrophe from my last name
9. Johnson, L, Perkins, FK, **O'Hearn, T**, Skeath, P, Merrit, C, Frieble, J, Sadda, S, Humayun, M, Scribner, D. Electrical Stimulation of Isolated Retina with Microwire Glass Electrodes *Journal of Neuroscience Methods* 2004; 137(2):265-73.
10. Margalit, E, Maia, M, Weiland, J, Greenberg, R, Fujii, G, Torres, G, Piyathaisere, D, **O'Hearn, T**, Liu, W, Dagnelie, G, Scribner, D, de Juan Jr, E, Humayun, M. Retinal Prosthesis for the Blind. *Survey of Ophthalmology* 2002;47(4):335-356.

Book Chapters:

1. **O'Hearn, TM**, Javaheri, M, Au Eong, KG, Weiland, JD, de Juan, E, Humayun, MS. Visual Prostheses for Age-related Macular Degeneration. In: Lim J. editor. Age-related Macular Degeneration 2nd edition. New York: Taylor and Francis

Correspondence:

1. **O'Hearn, Thomas M.** MD; Khurana, Rahul N. MD; Javaheri, Michael MD; Humayun, Mark S. MD, PhD. Volume 27(9), November/December 2007, pp 1315-1316

ARVO Abstracts:

1. **O'Hearn, T**, Ameri, H, Shariati, A, Humayun MS. Oxygenation of the Anterior Vitreous in a Rabbit Photothrombotic Model of Retinal Vein Occlusion. IOVS 2008; 6116: ARVO E-Abstract D928
2. **O'Hearn, T**, Ameri, H, Humayun, MS. Vitreous oxygenation for the treatment of retinal vein occlusion in rabbit. IOVS 2007; 3437:ARVO E-Abstract B584
3. **O'Hearn, T**, Thomas, E, Gallemore, R, Boyer, D, Novack, R, Chu T, Rahhal F. Efficacy of Intravitreal Bevacizumab (BV) Injection for the Treatment of Retinal Vein Occlusion. IOVS 2006; 4290: ARVO E-Abstract B961
4. Kuzin, A, Fawzi, A, **O'Hearn, T**, Yu, D, Reddy, H, Lim, J. A Recent Resurgence of Ocular Tuberculosis with Unusual Posterior Segment Manifestations. IOVS 2006; 1909: ARVO E-abstract B270
5. **O'Hearn TM**, Qiu G, Humayun MS, Greenbaum E, Kuritz T, Satta SR. A Biocompatibility Study of the Implantation of Plant Photosystem I Reaction Centers in Normal and S334ter-3Rats. IOVS 2005;1500: ARVO E-Abstract B269
6. Greenbaum E, Kuritz T, Owens ET, Lee I, Satta SR, Qiu G, **O'Hearn T**, Humayun MS. Molecular Photovoltaics and Artificial Sight. IOVS 2005; 1500: ARVO E-Abstract B290
7. **O'Hearn TM**, Weiland JD, Humayun MS, Maia M, Margalit E, Satta SR. Electrical Stimulation of Normal and Retinal Degenerate (rd) Isolated Mouse Retina [abstract]. 2002 Annual Meeting Abstract and Program Planner accessed at www.arvo.org. Association for Research in Vision and Ophthalmology. Abstract 4467
8. Pan S-C, **O'Hearn TM**, Weiland JD, Humayun MS, Satta SR. Electrical Stimulation of Normal and Retinal Degenerate (rd) Isolated Mouse Retina with 25 µm Electrodes [abstract]. 2002 Annual Meeting Abstract and Program Planner accessed at www.arvo.org. Association for Research in Vision and Ophthalmology. Abstract 4461
9. Weiland JD, Maia M, Shyu J-S, **O'Hearn TH**, Margalit E, Piyathaisere DV, Torres G, Humayun MS, de Juan E. Parameters of electrical stimulation in isolated rabbit retina [ARVO Abstract]. Invest Ophthalmol Vis Sci 2001;42(4):S813. Abstract nr 4359
(A typo in this citation listed my initials as T.H. instead of the correct T.M.)

Clinical Trials

1. **RegeneRx (Co-Investigator);** *A Randomized, Double-Mask, Placebo-Controlled, Dose-Response, Phase 2 Study of the Safety and Efficacy of Thymosin Beta 4 in the Treatment of Diabetic Patient's Corneal Wounds Resulting from Epithelial Debridement During Vitrectomy*
2. **RISE (Co-Investigator);** A Phase III, Double-Masked, Multicenter, Randomized, Sham Injection-Controlled Study of the Efficacy and Safety of Ranibizumab Injection in Subjects With Clinically Significant Macular Edema With Center Involvement Secondary to Diabetes Mellitus
3. **RISE DNA (Co-Investigator);** DNA Repository Substudy in Association with Ranibizumab Study FVF4170g (A Phase III, Double Masked, Multicenter, Randomized, Sham-Controlled Study of the Efficacy and Safety of Ranibizumab Injection in Subjects with Clinically Significant Macular Edema with Center Involvement Secondary to Diabetes Mellitus)

Hospital Affiliations

San Gabriel Valley Medical Center

Cedars Sinai Medical Center

Huntington Memorial Hospital

Olympia Medical Center

Voluntary Faculty Doheny Eye Institute/University of Southern California Hospital

Los Angeles County Hospital

Extracurricular

1997-1998 Backpacked solo across Western and Eastern Europe, Western United States

Personal

Avid Flyfisherman, Surfer, and supporter of USC football