

Gena Heidary, M.D., Ph.D.
Curriculum Vitae

Education

9/1991- 6/1995	B.A., Latin and Greek Languages, Stanford University, Stanford, CA.
9/1993-12/1993	Intercollegiate Center for Classical Studies, Rome, Italy.
9/1991- 6/1996	B.S., Biological Sciences, Stanford University, Stanford, CA.
3/1995- 6/1996	M.S., Biological Sciences, Stanford University, Stanford, CA.
9/1996- 5/2004	M.D., University of Pennsylvania, Philadelphia, PA.
9/1998- 6/2002	Ph.D., Neuroscience, University of Pennsylvania, Philadelphia, PA.

Clinical Training

6/2004- 6/2005	Internship (Transitional), Presbyterian Medical Center, Philadelphia, PA.
7/2005- 6/2008	Ophthalmology Residency Training, Massachusetts Eye and Ear Infirmary, Boston, MA.
7/2008-6/2009	Clinical Fellow Pediatric Ophthalmology, Children's Hospital Boston, Boston, MA.
7/2009-6/2010	Clinical Fellow Neuro Ophthalmology, Massachusetts Eye and Ear Infirmary, Boston, MA.
7/2009- 6/2010	Assistant in Ophthalmology, Active Staff, Massachusetts Eye and Ear Infirmary, Boston, MA.

Research Experience

4/1994- 9/1994	Undergraduate student with Dr. Craig Miller Falk Heart Center, Stanford University.
3/1995- 6/1996	Master's graduate student with Dr. Uta Francke HHMI, Department of Genetics, Stanford University.
6/1997- 8/1997	Rotation student with Dr. Jonathan Raper Department of Neuroscience, University of Pennsylvania.
9/1998- 6/2002	Ph.D. thesis student with Dr. Mark Fortini Department of Genetics, University of Pennsylvania. Thesis: Identification and characterization of the <i>Drosophila</i> tau homologue.

Committee Appointments

9/1997- 2/1998	Interviewer for medical school admissions
1/2000- 1/2001	Co-coordinator of seminar speaker series Frontiers in Genetics
2000	Panelist for an internal review of the Neuroscience Graduate Group
2000	Panelist for NIH review of the Genetics Training grant
7/2005-10/2007	Surgical Case Review Committee, MEEI
2008	Assistant Editor, Digital Journal of Ophthalmology

Professional Memberships

2004, 2006-present Association for Research in Vision and Ophthalmology
2005-present American Academy of Ophthalmology

Peer Reviewer

2008 Clinical Ophthalmology
2008 Clinical and Experimental Dermatology
2009 Ophthalmology and Eye Disease

Awards and Honors

1991 Valedictorian, Savannah Country Day School, Savannah, GA
1992 Fairclough Book Award in Classics
1993 Classics Stipend for Study Abroad Program in Rome, Italy
1994 Classics Scholarship for Senior Year
1995 Senior Classics Award
2000 Selected to attend the Schmitt Symposium on "Cell Cycle Genes in Development, Aging and Neurodegeneration."
2000 Invited speaker, First Annual Retreat University of Pennsylvania Center for Neurodegenerative Disease Research
2003 Robert M. Toll prize for Best Research in Mental Health
2004 Alpha Omega Alpha Honor Society
2007 NEI Travel Grant to attend ARVO 2007
2007 Selected to attend the 2nd Heed Foundation Residents' Retreat 9/9-9/10
2008 Heed Ophthalmic Foundation Fellowship Award
2008 Farley Fellowship Award, Children's Hospital Boston

Research Funding

9/1995- 3/1996 Research Assistantship, Stanford University Dept. of Genetics
7/1997- 8/1997 NIH Child Health and Human Development Short-term Training Award
7/1998- 9/1999 Institutional NRSA for the Medical Scientist Training Program
9/1999- 8/2001 Institutional NRSA for Training in Developmental Biology
9/2001- 5/2004 Individual NRSA awarded by the National Institute of Neurological Disease and Stroke for the grant entitled, "Modeling Human Tauopathies in *Drosophila melanogaster*."

Research Publications

Journal Articles

Heidary, G., Hampton, L.L., Schanen, N.C., Rivkin, M.J., Darras, B.T., Battey, J., Francke U. (1998) Exclusion of the gastrin-releasing peptide receptor (GRPR) locus as a candidate gene for Rett Syndrome. *American Journal of Medical Genetics* 78: 173-175.

Heidary, G., Fortini, M.E. (2001) Identification and characterization of the *Drosophila tau* homolog. *Mechanisms of Development* 108: 171-178.

Heidary, G., Ying, G.-S., Maguire, M.G., Young, T.L. (2005) The association of astigmatism and spherical refractive error in a high myopia cohort. *Journal of Optometry and Vision Science* 82: 244-247.

Heidary, G., Krishnamurthy, R, VanderVeen, D. Prevalence and course of strabismus in patients after congenital cataract surgery, in preparation.

Book Chapters and Review Articles

Heidary, G. and Kazlas, M. Pediatric Ophthalmology. In: Pavan-Langston, D., ed. *Manual of Ocular Diagnosis and Therapy*, 6th Edition. Philadelphia: Lippincott Williams & Wilkins.

Heidary, G., Engle, E.C., Hunter, D.G. (2008) Congenital fibrosis of the extraocular muscles. *Seminars in Ophthalmology* 23:3-8.

Heidary, G., VanderVeen, D., Smith, L. E. (2009) Retinopathy of prematurity: current concepts in molecular pathogenesis. *Seminars in Ophthalmology*, 24: 77-81.

Abstracts

Schanen, N.C., Hofferbert, S., Heidary, G., Zoghbi, H., Francke, U. (1997) Molecular genetics of Rett syndrome. *European Child and Adolescent Psychiatry* 6: 93-94, Suppl. 1.

Heidary, G., Yin, W., Fortini, M.E. (2001) Modeling human tauopathies in *Drosophila melanogaster*. Keystone Meeting on the Molecular Basis of Neurodegenerative Disease 58.

Heidary, G., Fortini, M.E. (2001) Identification and characterization of the *Drosophila tau* homolog. Cold Spring Harbor Meeting on the Neurobiology of *Drosophila* 186.

Heidary, G., Ying, G.-S., Maguire, M.G., Young, T.L. (2004) The impact of sphere on cylinder type and severity in a high myopia cohort. *Invest. Ophthalmol. Vis. Sci.* 45: ARVO E-Abstract 2747.

Heidary, G., Chaum, E., Mukai, S. (2006) Acute retinal necrosis in children. *Invest. Ophthalmol. Vis. Sci.* 47: ARVO E-Abstract 5271.

Heidary, G., Krishnamurthy, R., VanderVeen, D. (2007) Prevalence and course of strabismus in patients after congenital cataract surgery. *Invest. Ophthalmol. Vis. Sci.* 48: ARVO E-Abstract 4863.

Heidary, G., Andreoli, M.T., Wee, R., Kloek, C., Andreoli, C.M. (2008) Primary intraocular lens implantation in penetrating eye injuries. *Invest. Ophthalmol. Vis. Sci.* 49: ARVO E-Abstract 619.

Gangwani, B.K., Heidary, G., VanderVeen, D. (2008) Surgical and visual outcomes of unilateral cataracts in infants. *Invest. Ophthalmol. Vis. Sci.* 49: ARVO E-Abstract 5663.

VanderVeen, D., Heidary, G., Gangwani, B.K. (2008) Prevalence and risk factors for development of glaucoma after infantile cataract surgery. *Invest. Ophthalmol. Vis. Sci.* 49: ARVO E-Abstract 4170.

Heidary G., Miyake, N., Yamada, K., Andrews, C., Traboulsi, E. I., Engle, E. C. (2009) Evidence for a new recessive CFEOM locus. 2009 AAPOS Meeting, San Francisco, CA.