

LILI FARROKH-SIAR
CURRICULUM VITAE

Professional:

Assistant Professor, Ophthalmology, Pritzker School of Medicine, University of Chicago, Chicago, IL 2004-2008

Education and Post-Graduate Training:

University Eye Specialists, Chicago, IL, *Fellowship in Glaucoma*, 2003-2004

University of Chicago, Pritzker School of Medicine, Chicago, IL, *Chief Residency*, 2002-2003

University of Chicago, Pritzker School of Medicine, Chicago, IL, *Residency in Ophthalmology*, 2000-2003

University of Chicago Hospitals/Weiss Memorial Hospital, *Medical Intern*, 1999-2000

University of Chicago, Pritzker School of Medicine, Department of Ophthalmology and Visual Science, *Research Associate* (Transplantation in Macular Degeneration and Apoptosis) 1997-1999

University of Cologne and Duesseldorf Medical Schools, Germany, *Doctor of Medicine*, 1991-1997

Honors and Awards:

Optonol, Inc. Teacher of the Year Award (2007) Albert M. Potts Award, University of Chicago (2003) Beem Fisher Award, Chicago Ophthalmological Society (2003, 2002, 2001) National Eye Institute Travel Grant (1997) Maria Pesch Foundation, University of Cologne, School of Medicine (1996, 1997)

Professional Activities:

Committee Co-Chair: *Chicago Ophthalmological Society* Annual Meeting

Languages:

Fluent in Farsi (Persian) and German,

some French

Teaching Administration:

Fellowship Training, Glaucoma, University Eye Specialists, Chicago, IL

Residency Training, Ophthalmology, University of Chicago, Pritzker School of Medicine, Chicago, IL

Publications:

Patel S., Rubin M., LoDuca A.L., Ksiazek S., **Farrokh-Siar, L.** Use of Optical Coherence Tomography to Determine Relationship between Optic Disc Diameter and Retinal Nerve Fiber Layer Thickness. *Submitted for publication*

Rezai K.A., **Farrokh-Siar L.**, Gasyna E.M., Ernest J.T. Trypan blue induces apoptosis in human retinal pigment epithelial cells. *Am J Ophthalmol.* 2004;138:492-495.

Rezai K.A., **Farrokh-Siar L.**, Ernest J.T. Indocyanine green induces apoptosis in human retinal pigment epithelium. *Am J Ophthalmol.* 2004;137:931-3.

Rezai K.A., **Farrokh-Siar L.**, Patel S.C., Ernest J.T., van Seventer G.A. Type I and II interferons promote human fetal retinal pigment epithelium induced apoptosis of Jurkat T-cells. *Invest Ophthalmol Vis Sci.* 2003;44:3130-4.

Farrokh-Siar L., Rezai K.A., Palmer E.M., Patel S.C., Ernest J.T., van Seventer G.A. Cytokine modulation of costimulatory molecules on human fetal retinal pigment epithelial cells. *Curr Eye Res.* 2001;23:285-90.

Palmer E.M., **Farrokh-Siar L.**, Maguire van Seventer J., van Seventer G.A. IL-12 decreases activation-induced cell death in human naive Th cells costimulated by intercellular adhesion molecule-1. I. IL-12 alters caspase processing and inhibits enzyme function. *J Immunol.* 2001;167:749-58.

Farrokh-Siar L., Rezai K.A., Palmer E.M., Patel S.C., Ernest J.T., van Seventer, G.A. Human fetal retinal pigment epithelial cells secrete a product which induces cell cycle arrest leading to the loss of mitochondrial membrane potential and apoptosis. *Invest Ophthalmol Vis Sci.* 2000;41:3991-8.

Rezai K.A., **Farrokh-Siar L.**, Godowski K., Patel S.C., Ernest J.T. A model for xenogenic immune response. *Graefes Arch Clin Exp Ophthalmol.* 2000 ;238:352-8.

Farrokh-Siar L., Rezai K.A., Semnani R.T., Patel S.C., Ernest J.T., van Seventer G.A. Human fetal retinal pigment epithelium induces apoptosis in the T-cell line jurkat. *Invest Ophthalmol Vis Sci* 1999;40:1503-1511.

Farrokh-Siar L., Rezai K.A., Patel S.C., Ernest J.T. Cryoprecipitate: An autologous substrate for human fetal retinal pigment epithelium. *Current Eye Research* 1999;19:89-94

Farrokh-Siar L., Rezai K.A., Semnani R.T., Patel S.C., Ernest J.T., van Seventer G.A. Human fetal retinal pigment epithelium suppresses the activation of CD4+ and CD8+ T-cells. *Graefe's Arch Clin Exp Ophthalmol* 1999;237:934-939.

Rezai K.A., **Farrokh-Siar L.**, Botz M.L., Godowski K.C., Swanbom D.D., Patel S.C., J.T. Ernest. Biodegradable polymer film as a source for formation of human fetal retinal pigment epithelium spheroids. *Invest Ophthalmol Vis Sci* 1999;40:1223-1228.

Rezai K.A., Semnani R.T, **Farrokh-Siar L.**, Hamann K., Patel S.C., Ernest J.T., van Seventer G.A. Human fetal retinal pigment epithelial cells induce apoptosis in allogenic human T-cells in a Fas ligand and PGE2 independent pathway. *Current Eye Research* 1999;18:430-439.

Gabrielian K., Oganesian A., **Farrokh-Siar L.**, Rezai K.A., Verp M., Patel S.C., Ernest J.T. Growth of human fetal retinal pigment epithelium as microspheres. *Graefe's Arch Clin Exp Ophthalmol* 1999;237:241-248.

Rezai K.A., Lai W.W., **Farrokh-Siar L.**, Pearlman J., Shu J., Patel S.C., Ernest J.T. A new method of culturing and transferring iris pigment epithelium. *Invest Ophthalmol Vis Sci* 1997;38:2255-2260.

Rezai K.A., Lappas A., **Farrokh-Siar L.**, Kohen L., Wiedemann P., Heimann K. Iris pigment epithelial cells of Long Evans rats demonstrate phagocytic activity. *Exp Eye Res* 1997;65:23-29.

Abstracts:

Patel S., Patel K., **Farrokh-Siar, L.** pH change of ophthalmic drops over one month. Presented at 2008 American Glaucoma Society, Washington DC.

Patel S., LoDuca A., **Farrokh-Siar L.** Correlation of optic disc rim volume to disc diameter for a fixed cup to disc ratio as measured by optical coherence tomography. Presented at 2007 AGS, San Francisco, California

Rezai K.A., Gasyna E., Mieler W., **Farrokh-Siar, L.** The correlation of blue light induced apoptosis and vascular endothelial growth factor production in human RPE cells. Presented at 2006 ARVO scientific meeting.

Patel N., Rahdakrishnan C., Krupin T., **Farrokh-Siar L.** Subconjunctival 5-Flourouracil for anterior uveitis. Presented at 2006 ARVO scientific meeting.

Arif A., **Farrokh-Siar L.**, Krupin T. Studies on the effect of corneal thickness on measurement of intraocular pressure Presented at 2006 ARVO scientific meeting.

Farrokh-Siar L., Colev M., Arif A., Kwon R., Krupin T. Central Corneal Thickness in Normal, Ocular Hypertensive, and Primary Open-Angle Glaucoma Patients. Presented at 2004 ARVO scientific meeting.

Farrokh-Siar L., Colev M., Arif A., Krupin T. Central Corneal Thickness in Normal, Ocular Hypertensive, and Primary Open-angle Glaucoma Patients. Presented at the 2004 American Glaucoma Society (Sarasota, FL).

Farrokh-Siar L., Rezai K.A., Ernest J.T. Interferon activated human retinal pigment epithelial cells release a soluble factor which suppresses the proliferation of non-activated retinal pigment epithelial cells. Presented at 2003 ARVO scientific meeting.

Farrokh-Siar L., Rezai K.A., Palmer E., Patel S.C., Ernest J.T., van Seventer G.A. Human fetal retinal pigment epithelium induced apoptosis in Jurkat T-cells involves caspase activation and PARP cleavage. Presented at 2002 ARVO scientific meeting.

Rezai K.A., **Farrokh-Siar L.**, Gasyna E.M., Patel S.C., Ernest J.T., van Seventer G.A. The effect of IFN- α , IFN- γ , and TGF- β on retinal pigment epithelium induced apoptosis in Jurkat T-cells. Presented at 2002 ARVO scientific meeting.

Farrokh-Siar L., Rezai K.A., Palmer E.M., Maguire J., Hamann K.J., Patel S.C., Ernest J.T., van Seventer G.A. The role of TRAIL in the human fetal retinal pigment epithelium induced apoptosis in the T-cell line Jurkat. Presented at 2001 ARVO scientific meeting.

Rezai K.A., **Farrokh-Siar L.**, Palmer E.M., Patel S.C., Ernest J.T., van Seventer G.A. Human fetal retinal pigment epithelial cells secrete a product which changes the mitochondrial membrane potential and induces apoptosis in Jkt cells. Presented at 2001 ARVO scientific meeting.

Ernest J.T., **Farrokh-Siar L.**, Rezai K.A., Patel S.C., van Seventer G.A. Cytokine modulation of costimulatory molecules on human fetal retinal pigment epithelial cells. Presented at 2001 ARVO scientific meeting.

Farrokh-Siar L., Rezai K.A., van Seventer G.A., Patel S.C., Ernest J.T. Bcl-XL overexpression does not restore the supernatant induced suppression of Jurkat cell proliferation. Presented at 2000 ARVO scientific meeting.

Farrokh-Siar L., Rezai K.A., Semnani R.T., Patel S.C., Ernest J.T., van Seventer G.A. Human fetal retinal pigment epithelial cells inhibit the activation of human T cells by inducing T cell apoptosis. Presented at 1999 Keystone symposia on Apoptosis and Programmed Cell Death.

Rezai K.A., **Farrokh-Siar L.**, Patel S.C., Ernest J.T., Peterson E., Koretzky G., van Seventer G.A. Human fetal retinal pigment epithelial (HFRPE) cells induce apoptosis that is not mediated by fas ligand/fas ligand interaction. Presented at 1999 Keystone Symposia on Apoptosis and Programmed Cell Death.

Farrokh-Siar L., Rezai, K.A., Van Seventer, G.A., Patel, S.C., Ernest J.T. The effect of human fetal retinal pigment epithelium on the proliferation of human fetal endothelial cells. Presented at 1999 ARVO scientific meeting.

Rezai K.A., **Farrokh-Siar L.**, Godowski K., Patel S.C., Ernest J.T. Transplantation of human fetal retinal pigment epithelium spheroids. Presented at 1999 ARVO scientific meeting.

Farrokh-Siar L., Rezai K.A., Semnani R.T., van Seventer G.A., Patel S.C., Ernest J.T. Human Fetal retinal pigment epithelial cells induce apoptosis in human T-cell line. Presented at 1998 Symposia on pathogenesis and treatment of age related macular degeneration, John Hopkins Medical Institution.

Rezai K.A., Semnani R.T., **Farrokh-Siar L.**, Ko, F.D., Hamann K., Patel S.C., van Seventer G.A., Ernest J.T. Human fetal retinal pigment epithelial cells inhibit the activation of allogenic human T-cells. Presented at 1998 Symposia on pathogenesis and treatment of age related macular degeneration, Johns Hopkins Medical Institution.

Farrokh-Siar L., Rezai K.A., Semnani R.T., van Seventer G.A., Patel S.C., Ernest J.T. Bcl-xL overexpression rescues the HFRPE-mediated apoptosis in human T-cell line jurkat. Presented at 1998 ARVO scientific meeting.

Rezai K.A., Semnani R.T., **Farrokh-Siar L.**, Ko, F.D., Hamann K., Patel S.C., van Seventer G.A., Ernest J.T. Human fetal retinal pigment epithelial cells inhibit the activation of human T-cells. Presented at 1998 ARVO scientific meeting.

Williamson E., Rezai K.A., **Farrokh-Siar L.**, Bots M.L., Godowski K.C., Ernest J.T., Patel S.C. Biodegradable polymer film as a source of adhesion and formation of human fetal retinal pigment epithelium spheroids. Presented at 1998 ARVO scientific meeting.

Donald H., **Farrokh-Siar L.**, Rezai K.A., Patel S.C., Ernest J.T. Autologous cryoprecipitate: A carrier for transplantation of human fetal retinal pigment epithelial cells. Presented at 1998 ARVO scientific meeting.

Prause J., **Farrokh-Siar L.**, Rezai K.A., Semnani R.T., van Seventer G.A., Patel S.C., Ernest J.T. Human fetal retinal pigment epithelium induce a similar inhibitory effect on both CD4⁺ and CD8⁺ T-cell subpopulations. Presented at 1998 ARVO scientific meeting.

Farrokh-Siar L., Rezai K.A., Semnani R., van Seventer G., Ernest J.T., Patel S.C. The effect of passaging on proliferation activity and expression of major histocompatibility and co-stimulatory molecules of human fetal retinal pigment epithelial cells. Presented at 1997 ARVO scientific meeting.

Lai W., Rezai K.A., **Farrokh-Siar L.**, Pearlmann J., Shu J., Patel S.C., Ernest J.T. A new method of culturing and transferring iris pigment epithelium. Presented at 1997 ARVO scientific meeting.

Farrokh-Siar L., Schraermeyer U., Bieker A., Lappas A., Rezai, K.A., HeimannK. Influence of original cell contacts on the transdifferentiation of cultured retinal pigment epithelial cells. Presented at 1996 ARVO scientific meeting.

Wingenfeld P., **Farrokh-Siar L.**, Ugur T. Michalk D.V. Verbesserung Verschiedener Organkonservierungsloesungen durch den Zusatz von Taurin. (German). Monatsschr. Kinderheilkunde. 1996;144: 214

Michalk D.V., Wingenfeld P., Licht C., Ugur T. , **Farrokh-Siar L.** Taurine mediated protection against cellular deterioration induced by hypoxia and reoxygenation: mechanisms of prevention. Presented at 1995 International Symposium on Taurine in Health and Disease, Osaka, Japan.
"Protection Against Cell Damage Due to Hypoxia"

Book Chapters:

"The Krupin Eye Valve With Disk" In: Glaucoma Surgery Eds: Teresa C. Chen, Saunders Elsevier, 2008

"The Mechanisms of Taurine Mediated Protection Against Cell Damage Induced by Hypoxia and Reoxygenation" in: Taurine 2, Basic and Clinical Aspects Eds: R.J. Huxtable, J. Azuma, T. Baba, Plenum Press New York (1996).

Farrokh-Siar, L., Colev, M., Aref, A., Krupin, T. What are the indications for combined procedures (cataracts and glaucoma). In: Answers in Glaucoma. 2004:265-270.