

# CURRICULUM VITAE

## Xiaoqing Liu, Ph.D.

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### Appointments:

- 2007-present Adjunct Assistant Professor of Ophthalmology, UT Southwestern Medical Center, Dallas, TX
- 2007-present Research Scientist, Retina Foundation of the Southwest, Dallas, TX  
Director, the Sybil B. Harrington Molecular Ophthalmology Laboratory
- 2006 Instructor of Ophthalmology, Harvard Medical School
- 1995-1997 Biochemist, Jinan University, Guangzhou, P.R. China
- 1990-1992 Biochemist, Jilin Agriculture University, Changchun, P.R. China

### Postdoctoral Training:

- 2001-2006 Research Fellow, Berman-Gund Laboratory, Department of Ophthalmology, Harvard Medical School
- 2000-2001 Research Fellow, Department of Microbiology & Molecular Genetics, Harvard Medical School

### Education:

- 2000 PhD Molecular Biology, the National Laboratory of Biomacromolecules, Institute of Biophysics, Chinese Academy of Sciences, Beijing, P.R. China
- 1995 MS Biochemistry, Department of Biochemistry & Molecular Biology, College of Life Sciences, Peking University, Beijing, P.R. China
- 1990 BS Biochemistry, Department of Molecular Biology, Jilin University, Changchun, P.R. China

### Awards and Honors:

- 2001 First Diao Prize, Chinese Academy of Sciences, P.R. China
- 1995 First Prize for Progress in Science & Technology, National Education Ministry, Peking University, P.R. China
- 1994 Pathana Prize for Life Science, Peking University, P.R. China

## Grants:

2007-2008                      Fight for Sight  
2004-2006                      Knights Templar Eye Foundation

## Patents:

Lysyl oxidase-like 1 (LOXL1) and elastogenesis (United States Patents: US7255856B2, US7255857B2).

## Selected Publications:

**Liu X**, Bulgakov OV, Darrow KN, Pawlyk B, Adamian M, Liberman MC, Li T. Usherin is required for maintenance of retinal photoreceptors and normal development of cochlear hair cells. *Proc. Natl. Acad. Sci.* 2007(104): 4413-4418.

Makino CL, Wen XH, Michaud N, Peshenko IV, Pawlyk B, Brush RS, Solovyeva M, **Liu X**, Woodruff ML, Calvert PD, Savchenko AB, Anderson RE, Fain GL, Li T, Sandberg MA, Dizhoor AM. Effects of low AIPL1 expression on phototransduction in rods. *IVOS* 2006 (47): 2185-2194.

**Liu X**, Zhao Y, Pawlyk B, Damaser M, and Li T. Failure of elastic fiber homeostasis leads to pelvic floor disorders. *Am. J. Path.* 2006 (168): 519-528 (Covered by Harvard Focus).

**Liu X**, Bulgakov OV, Wen XH, Woodruff ML, Pawlyk B, Yang J, Fain GL, Sandberg M, Makino CL, and Li T. AIPL1, the protein that is defective in Leber congenital amaurosis, is essential for the biosynthesis of retinal rod cGMP phosphodiesterase. *Proc. Natl. Acad. Sci.* 2004 (101): 13903-13908 (Highlighted in the cover).

**Liu X**, Zhao Y, Gao J, Pawlyk B, Starcher B, Spencer JA, Yanagisawa H, Zuo J, and Li T. Elastic fiber homeostasis requires lysyl oxidase-like 1 protein. *Nat. Genet.* 2004(36): 178-182 (Covered by numerous mass media: Reuters, Harvard Gazette, Harvard Focus, etc).

Yang J, **Liu X**, Yue G, Adamin M, Bulgakov O, and Li T. Rootletin, a novel coiled-coil protein, is a structural component of the ciliary rootlet. *J. Cell Biol.* 2002(159): 431-440.

**Liu X** and Wang CC. Disulfide-dependent folding and export of *Escherichia coli* DsbC. *J. Biol. Chem.* 2001(276): 1146-1151.

**Liu X**, Zhang S, Pan X and Wang CC. A novel method for increasing production of mature proteins in the periplasm of *Escherichia coli*. *Protein Sci.* 1999(8): 2085-2089.