

## BIOGRAPHICAL SKETCH

NAME Ying Chen, M.D., Ph.D.	POSITION TITLE
eRA COMMONS USER NAME	Senior Scientist

EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
China Medical University, China	M.D.	1996	Medicine
Sun Yat-sen University of Medical Sciences, China	Ph.D.	2001	Ophthalmology
Medical university of South Carolina, Charleston S.C.	Postdoctoral training	2001	Ophthalmology
The Scripps Research Institute, La Jolla, CA	Postdoctoral training	2002	Cell Biology and Immunology
University of California at Berkeley, Berkeley	Postdoctoral training	2003	Ophthalmology

### A. Positions

1996-2001    Residency and Graduate Student in Ophthalmology, Zhongshan Ophthalmic Center, Guangzhou, China

2004 -        Scientist of Research Division, Charlesson LLC, Oklahoma City, OK

### B. Selected Peer Reviewed Publications

1.    **Chen Y, Zhang Q.** Spatio-temporate expression of P53, Bcl-2 and Fas in the retina of RD, Rds and C3H mice. Yan Ke Xue Bao. 16:158-62. (2000)
2.    **Chen Y, Zhang Q.** Calpain inhibitor rescue photoreceptor apoptosis in the retina of rd mice. J. of Chin. ocular fundus. (2000)
3.    Wu BX, Chen Y, **Chen Y**, Fan J, Rohrer B, Crouch RK, Ma JX. Cloning and characterization of a novel all-trans retinol short-chain dehydrogenase/reductase from the RPE. Invest Ophthalmol Vis Sci.; 43:3365-72. (2002)
4.    Zhang SX, Sima J, Shao C, Fant J, **Chen Y**, Rohrer B, Gao G, Ma JX. Plasminogen kringle 5 reduces vascular leakage in the retina in rat models of oxygen-induced retinopathy and diabetes. Diabetologia. 47:124-31. (2004)
5.    Wu BX, Moiseyev G, **Chen Y**, Rohrer B, Crouch RK, Ma JX. Identification of RDH10, an All-trans Retinol Dehydrogenase, in Retinal Muller Cells. Invest Ophthalmol Vis Sci. 45: 3857-62. (2004)
6.    Le, Y-z, Ash, J.D., Al-Ubaidi, M.R., **Chen, Y.**, Ma, J-x., Anderson, R.E. Targeted expression of Cre recombinase to cone photoreceptors in transgenic mice. Mol.Vis. 10, 1011-1018. (2005)
7.    Wang JJ, Zhang SX, Lu K, **Chen Y**, Mott R, Sato S, Ma JX. Decreased expression of pigment epithelium-derived factor is involved in the pathogenesis of diabetic nephropathy. Diabetes. Jan;54(1):243-50. (2005)
8.    Moiseyev, G., **Chen, Y.**, Takahashi, Y. and Ma, J-x. RPE65 is the isomerohydrolase in the visual cycle. Proc. Natl. Acad. Sci. USA. 102, 12413- 12418. (2005)

9. Takahashi, Y., Moiseyev, G., **Chen, Y.** and Ma, J-x. Identification of conserved histidines and glutamic acid as key residues for isomerohydrolase activity of RPE65, an enzyme of the visual cycle in the retinal pigment epithelium. FEBS Lett. 579, 5414-5418. (2005)
10. **Chen, Y.**, Moiseyev, G., Takahashi, Y. and Ma, J-x. RPE65 gene delivery restores isomerohydrolase activity and prevents early cone loss in *Rpe65*<sup>-/-</sup> mice. Invest. Ophthalmol. Vis. Sci. 47, 1177-1184. (2006)
11. Moiseyev, G., Takahashi, Y., **Chen, Y.**, Gentleman, S., T.M., Redmond, Crouch, R.K. and Ma, J-x. RPE65 is an Iron(II)-dependent Isomerohydrolase in the Retinoid Visual Cycle. J. Biol. Chem., 281, 2835-2840. (2006)
12. **Chen Y.**, Moiseyev G, Takahashi Y, Ma JX.(2006) Impacts of two point mutations of RPE65 from Leber's congenital amaurosis on the stability, subcellular localization and isomerohydrolase activity of RPE65. FEBS Lett. Jul 24;580(17):4200-4. (2006)
13. **Takahashi Y, Chen Y.**, Moiseyev G, Ma JX. Two point mutations of RPE65 from patients with retinal dystrophies decrease the stability of RPE65 protein and abolish its isomerohydrolase activity. J Biol Chem. 281:21820-6. (2006)
14. Isayama T, **Chen Y.**, McCabe SL, DeGrip WJ, Zimmerman AL, Ma JX & Crouch RK and Makino CL. Differences in the pharmacological activation of visual opsins support the existence of a second retinoid-binding site. Visual Neuroscience 23:899-908. (2006)
15. Le YZ, Ash JD, Al-Ubaidi MR, Chen Y, Ma JX, Anderson RE. Conditional gene knockout system in cone photoreceptors. Adv Exp Med Biol. 572:173-8. (2006)
16. Le YZ, Ash JD, Al-Ubaidi MR, Chen Y, Ma JX, Anderson RE. Conditional gene knockout system in cone photoreceptors. Adv Exp Med Biol. 572:173-8. (2006)
17. Takahashi Y, Moiseyev G, Chen Y, Ma JX. The roles of three palmitoylation sites of RPE65 in its membrane association and isomerohydrolase activity. Invest Ophthalmol Vis Sci. 47:5191-6. (2006)
18. **Chen Y.**, Hu Yang, Lu Kangmo, Flannery JG, Ma JX. VLDLR, a Negative Regulator of the Wnt Signaling Pathway in Choroidal Neovascularization. In review at The Journal of Biological Chemistry. (2007)
19. **Park K, Chen Y.**, Mayo AS, Kompella UB, Hu Y, Longeras R, Ma JX.(2007) Effect of Nanoparticle-mediated K5 Gene Delivery on Ischemia-induced Retinal Neovascularization and Vascular Leakage. In review at The Journal of Clinical Investigation.
20. **Chen Y.**, DeGrip W, Znoiko S, Crouch R, Ma JX. (2007) Switch of Photoreceptor Types during Metamorphosis of Tiger Salamander. Submitted