

PUBLICATION LIST

Journal papers

1. Zhang J, Yang W, Wu J, Lin B. Understanding TAK1 deficiency in microglia: Dual mechanisms for microglia-mediated photoreceptor protection in a mouse model of retinitis pigmentosa. (*Proc Natl Acad Sci U S A*, IF:9.3, Accept)
2. Li R, Zhang J, Wang Q, Fan J, Lin B. CX3CR1/STAT3/Ackr1 signaling regulates the selective vulnerability of cone photoreceptors in the retina. (*Exp & Mol Med*, IF: 9.5, Under review)
3. Li R, Zhang J, Wu J, Fan J, Lin B. Novel insights into the dual functions of TREM2 in regulating photoreceptor survival in retinitis pigmentosa. (*Mol Neurodegener*, IF: 14.9, Under review)
4. Kong Y, Yue M, Xu C, Zhang J, Hong H, et al. RGMb drives macrophage infiltration to aggravate kidney disease. *Proc Natl Acad Sci U S A*. 2025 Mar 18;122(11):e2418739122.
5. Yang S, Deng H, Zhang J, Zhang T, Xue C, Wang X, Wang Y. Spatial heterogeneity of corneal biomechanical properties in myopia at nanoscale: A preliminary study. *Exp Eye Res*. 2025 Apr;253:110277.
6. Zhang J, Yu H, Man MQ, Hu L. Aging in the dermis: Fibroblast senescence and its significance. *Aging Cell*. 2024 Feb;23(2):e14054.
7. Zhang J, Wu J, Lu D, To CH, Lam TC, Lin B. Retinal Proteomic Analysis in a Mouse Model of Endotoxin-Induced Uveitis Using Data-Independent Acquisition-Based Mass Spectrometry. *Int J Mol Sci*. 2022;23(12):6464.
8. Li R, Zhang J, Wang Q, Cheng M, Lin B. TPM1 mediates inflammation downstream of TREM2 via the PKA/CREB signaling pathway. *J Neuroinflammation*. 2022;19(1):257.
9. Yang S, Zhang J, Tan Y, Wang Y. Unraveling the mechanobiology of cornea: From bench side to the clinic. *Front Bioeng Biotechnol*. 2022 Oct 3;10:953590.
10. Zhang J, Zhu Q, Zhang S, Wu J, Huang J, Li M, Wang X, Man MQ, Hu L. Double knockout of vitamin D receptor and its coactivator mediator complex subunit 1 unexpectedly enhances epidermal permeability barrier function in mice. *Biochim Biophys Acta Mol Cell Res*. 2021 Nov;1868(12):119131.
11. Zhang J, Yang S, Tan Y, Wang Y. Effects of Mechanical Compression on Cell Morphology and Function in Human Corneal Fibroblasts. *Curr Eye Res*. 2021 Oct;46(10):1467-1473.

Conference papers

1. Wu J, Li R, Zhang J, Fan J, Lin B. Inhibition of Microglial CSF1R signaling ameliorates neuroinflammation and photoreceptor degeneration in retinitis pigmentosa. Paper presented at **ARVO 2024**, Seattle, WA, USA. *Invest. Ophthalmol. Vis. Sci*. 2024;65(7):1300.
2. Zhang J, Wu J, Lin B. CD33 regulates the inflammatory response and mitochondrial activity of microglial cells in the rd10 mouse model of retinitis pigmentosa. Paper presented at **ARVO 2023**, New Orleans, LA, USA. *Invest. Ophthalmol. Vis. Sci*. 2023;64(8):2421.
3. Zhang J, Yang W, Lin B. Homozygous and heterozygous TAK1-deficiency differentially affect microglial responses in the rd10 mouse model of retinitis pigmentosa. Paper presented at **Neuroscience 2023**, Washington D.C., USA
4. Li R, Wu J, Zhang J, Lin B. CX3CR1 deficiency induces glial cell reactivity and cone photoreceptor loss in the retina via the Stat3 signal pathway. Paper presented at **ARVO 2023**, New Orleans, LA, USA.
5. Li R, Wu J, Fan J, Zhang J, Lin B. Trem2 deficiency in microglia ameliorated neuroinflammation and photoreceptor loss at middle- and later-stages of retinitis pigmentosa disease. Paper presented at **Neuroscience 2023**, Washington D.C., USA
6. Yang W, Zhang J, Lin B. TAK1 mediates inflammatory responses in the rd10 mouse model of retinitis pigmentosa. Paper presented at **ARVO 2020**, Online. *Invest. Ophthalmol. Vis. Sci*. 2020;61(7):681.