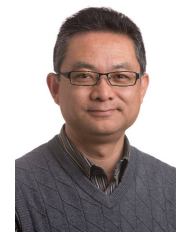


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## Area of Expertise

My research focuses on the pathological mechanisms of glaucoma. The characteristic events occurring during progression of glaucoma are the death of nerve cells in the eye (retinal ganglion cells) and damage to the optic nerve. We are testing the hypothesis that transcription factors, the proteins controlling gene expression, and astrocytes—one type of supporting cell in the nervous system—play a crucial role in both events. Therefore, my efforts are dedicated to understanding the interaction of nerve cells and astrocytes, and to reveal the roles of transcription factors in neuronal cell death, particularly through the activation of astrocytes.

## Qualifications

PhD in Pharmacology and Neuroscience, UNT Health Science Center  
MS in Immunology, Peking Union Medical College  
BS in Microbiology, Yunnan University

## Recent Publications

### Targets of neuroprotection in glaucoma

He, S., Stankowska, D. L., Ellis, D. Z., Krishnamoorthy, R. & Yorio, T., 1 Jan 2018, In : Journal of Ocular Pharmacology and Therapeutics. 34, 1-2, p. 85-106 22 p.

### A feed-forward regulation of endothelin receptors by c-Jun in human non-pigmented ciliary epithelial cells and retinal ganglion cells

Wang, J., Ma, H. Y., Krishnamoorthy, R., Yorio, T. & He, S., 1 Sep 2017, In : PLoS ONE. 12, 9, e0185390.

### Sigma-1 receptor regulates mitochondrial function in glucose- and oxygen-deprived retinal ganglion cells

Ellis, D. Z., Li, L., Park, Y., He, S., Mueller, B. & Yorio, T., 1 May 2017, In : Investigative Ophthalmology and Visual Science. 58, 5, p. 2755-2764 10 p.

### Upregulation of the endothelin A (ET<sub>A</sub>) receptor and its association with neurodegeneration in a rodent model of glaucoma

McGrady, N. R., Minton, A. Z., Stankowska, D. L., He, S., Jefferies, H. B. & Krishnamoorthy, R., 1 Mar 2017, In : BMC Neuroscience. 18, 1, 27.

### Involvement of ampa receptor and its flip and flop isoforms in retinal ganglion cell death following oxygen/glucose deprivation

Park, Y. H., Broyles, H. V., He, S., McGrady, N. R., Li, L. & Yorio, T., 1 Feb 2016, In : Investigative Ophthalmology and Visual Science. 57, 2, p. 508-526 19 p.

### Endothelin-mediated changes in gene expression in isolated purified rat retinal ganglion cells

He, S., Park, Y. H., Yorio, T. & Krishnamoorthy, R., 1 Jan 2015, In : Investigative Ophthalmology and Visual Science. 56, 10, p. 6144-6161 18 p.

### Neuroprotective effects of transcription factor brn3b in an ocular hypertension rat model of glaucoma

Stankowska, D. L., Minton, A. Z., Rutledge, M. A., Mueller, B. H., Phatak, N. R., He, S., Ma, H. Y., Forster, M. J., Yorio, T. & Krishnamoorthy, R., 1 Jan 2015, In : Investigative Ophthalmology and Visual Science. 56, 2, p. 893-907 15 p.

### Involvement of AP-1 and C/EBP $\beta$ in upregulation of endothelin B (ET<sub>B</sub>) receptor expression in a rodent model of glaucoma

He, S., Minton, A. Z., Ma, H. Y., Stankowska, D. L., Sun, X. L. & Krishnamoorthy, R., 12 Nov 2013, In : PLoS ONE. 8, 11, e79183.

**Nuclear factor  $\kappa$ B mediates suppression of canonical transient receptor potential 6 expression by reactive oxygen species and protein kinase C in kidney cells**

Wang, Y., Ding, M., Chaudhari, S., Ding, Y., Yuan, J. P., Stankowska, D. L., He, S., Krishnamoorthy, R., Cunningham, J. T. & Ma, R., 3 May 2013, In : Journal of Biological Chemistry. 288, 18, p. 12852-12865 14 p.

**Endothelin b receptors contribute to retinal ganglion cell loss in a rat model of glaucoma**

Minton, A. Z., Phatak, N. R., Stankowska, D. L., He, S., Ma, H. Y., Mueller, B. H., Jiang, M., Luedtke, R. T., Yang, S., Brownlee, C. & Krishnamoorthy, R., 20 Aug 2012, In : PLoS ONE. 7, 8, e43199.