

Sai Chavala, MD  
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## Area of Expertise

My laboratory focuses on understanding the molecular underpinnings of acquired and inherited retinal degenerations. Our goal is to develop novel therapies and restore vision for patients suffering from vision impairment secondary to retinal disease. Currently, the lab focuses on stem cell-like regenerative approaches to replace damaged or lost retinal cells.

## Qualifications

MD, University of Missouri at Kansas City  
BA in Liberal Arts, University of Missouri at Kansas City

## Recent Publications

### **Inhibition of Noncanonical Murine Double Minute 2 Homolog Abrogates Ocular Inflammation through NF- $\kappa$ B Suppression**

Fan, Y., Zhang, W., Ni, A., Mahato, B. & Chavala, S., 1 Sep 2018, In : American Journal of Pathology. 188, 9, p. 2087-2096 10 p.

### **Plasma Vascular Endothelial Growth Factor Concentrations after Intravitreal Anti-Vascular Endothelial Growth Factor Therapy for Diabetic Macular Edema**

Diabetic Retinopathy Clinical Research Network, 1 Jul 2018, In : Ophthalmology. 125, 7, p. 1054-1063 10 p.

### **Glycol Chitosan Engineered Autoregenerative Antioxidant Significantly Attenuates Pathological Damages in Models of Age-Related Macular Degeneration**

Mitra, R. N., Gao, R., Zheng, M., Wu, M. J., Voinov, M. A., Smirnov, A. I., Smirnova, T. I., Wang, K., Chavala, S. & Han, Z., 23 May 2017, In : ACS Nano. 11, 5, p. 4669-4685 17 p.

### **Ambulatory blood pressure patterns in patients with retinal vein occlusion**

Rao, V. N., Ulrich, J. N., Viera, A. J., Parlin, A., Fekrat, S. & Chavala, S., 1 Dec 2016, In : Retina. 36, 12, p. 2304-2310 7 p.

### **Peripheral Retinal Telangiectasia and Ischemia in Takayasu Arteritis**

Batliwala, S. Y., Perez, M., Aston, W. & Chavala, S., 1 Sep 2016, In : Arthritis and Rheumatology. 68, 9, 1 p.

### **Emboic central retinal artery occlusion after subcutaneous auricular steroid injection**

Chavala, S., Williamson, J. F. & Postel, E. A., 28 May 2016, In : The Lancet. 387, 10034, 1 p.

### **Dissociations of the Fluocinolone Acetonide Implant: The Multicenter Uveitis Steroid Treatment (MUST) Trial and Follow-up Study**

Multicenter Uveitis Steroid Treatment (MUST) Trial Research Group, 1 Apr 2016, In : American Journal of Ophthalmology. 164, p. 29-36 8 p.

### **Induced pluripotent stem cells: Generation, characterization, and differentiation—methods and protocols**

Graversen, V. K. & Chavala, S., 1 Jan 2016, *Methods in Molecular Biology*. Humana Press Inc., p. 395-401 7 p. (Methods in Molecular Biology; vol. 1357).

### **Outcome of Treatment of Uveitic Macular Edema: the Multicenter Uveitis Steroid Treatment Trial 2-Year Results**

Multicenter Uveitis Steroid Treatment Trial Research Group, 1 Nov 2015, In : Ophthalmology. 122, 11, p. 2351-2359 9 p.

**Tetracycline-containing MCM-41 mesoporous silica nanoparticles for the treatment of Escherichia coli**

Koneru, B., Shi, Y., Wang, Y-C., Chavala, S., Miller, M. L., Holbert, B., Conson, M., Ni, A. & Di Pasqua, A. J., 30 Oct 2015  
, In : *Molecules*. 20, 11, p. 19690-19698 9 p.

## **Sponsored Projects**

**Cellular Reprogramming for Retinal Degeneration**

Chavala, S.

UTSW Center for Translational Medicine

13/03/15 → 30/04/15

**Chemically Reprogrammed Retinal Ganglion Cell Therapy to Treat Glaucomatous Neuropathy (for Dr. Mahato)**

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Glaucoma Research Foundation

1/03/19 → 29/02/20

**High-throughput Bioengineering Technologies for Vision Restoration**

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NEI: National Eye Institute

30/09/15 → 31/08/20

**In Vivo Reprogramming Strategies for Retinal Degeneration**

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Foundation Fighting Blindness

9/02/15 → 31/01/19

**Regulation of Adult Ciliary Body Progenitor Cells for Cell Replacement Therapy**

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NEI: National Eye Institute

1/08/15 → 28/02/17