

**Dr. Hu Huang's Publications:** (\*Corresponding author)

1. **Huang H\***, Saddala MS, Mohan RR. PlGF regulates angiopoietin-1 and Tie-2 expression in human retinal endothelial cell-pericyte cocultures and iPSC-derived vascular organoids through VEGFR1. Under review.
2. Saddala MS, Yang X, Tang S, **Huang H\***. Transcriptome-wide analysis reveals core sets of transcription factors of retinal microglial sensome and inflammatory genes in retinal microglia. *Genomics*. 2021, 113:3058-3071.
3. Saddala MS, Lennikov A, Mukwaya A, Yang X, Tang S, **Huang H\***. Data mining and network analysis reveal C-X-C chemokine receptor type 5 is involved in the pathophysiology of age-related macular degeneration. *J Biomol Struct Dyn*. 2021. Jul 9:1-10. Doi: 10.1080/07391102.2021.1949391. PMID: 34243690.
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5. Lennikov A, Mukwaya A, Saddala MS, Fan L, Sandro D, **Huang H\***. Synergistic interactions of PlGF and VEGF contribute to blood-retinal barrier breakdown through canonical NF $\kappa$ B activation. *Exp Cell Res*. 2020. 397(2):112347. PMID: 33130176. DOI: 10.1016/j.yexcr.2020.112347.
6. **Huang H\***. Pericyte-Endothelial Interaction in the Retinal Microvasculature. *Int. J. Mol. Sci*. 2020, 21(19), 7413; doi: 103390/ijms21197413. (Review)
7. Lennikov A, Mukwaya A, Saddala MS, Mukwaya A, **Huang H\***. Deficiency of C-X-C chemokine receptor type 5 (CXCR5) gene causes dysfunction of retinal pigment epithelium cells. *Lab Invest*. 2020. PMID: 3299482. DOI: 10.1038/s41374-020-00491-4.
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10. Saddala MS, Lennikov A, Mukwaya, A. **Huang H\***. Transcriptome-wide analysis of CXCR5 deficient retinal pigment epithelial (RPE) cells reveals molecular signatures of RPE homeostasis. *Biomedicines*. 2020. 8(6),147. DOI: 10.3390/biomedicines8060147.

11. **Huang H\***, Lennikov A. CXCR5/NRF2 double knockout mice develop age-related macular degeneration-like phenotypic features at early ages. *Exp. Eye Res.* 2020. 196:108061. DOI: 10.1016/j.exer.2020.108061.
12. Saddala MS, Lennikov A, Mukwaya A, Yang Y, Hill MA, Lagali N, **Huang H\***. Discovery of novel L-type voltage-gated calcium channel blockers and application for the prevention of inflammation and angiogenesis. *J. Neuroinflammation.* 2020. 17:132. PMID: 32334630. Doi: 10.1186/s12974-020-01801-9.
13. Saddala MS, Lennikov A, **Huang H\***. Placental Growth Factor Regulates the Pentose Phosphate Pathway and Antioxidant Defense Systems in Human Retinal Endothelial Cells. *J. Proteomics.* 2020;10;217:103682.
14. Saddala MS, Lennikov A, **Huang H\***. Discovery of Small-Molecule Activators for Glucose-6-Phosphate Dehydrogenase (G6PD) Using Machine Learning Approaches. *Int J Mol Sci.* 2020 Feb 23;21(4). doi: 10.3390/ijms21041523. PMID: 32102234; PMC7073180.
15. Saddala MS, Lennikov A, **Huang H\***. RNA-Seq reveals expression profile of genes involved in retinal degeneration in Pde6c mutant Danio rerio. *BMC Genomics.* 2020. 21(1). DOI:10.1186/s12864-020-6550-z.
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18. Saddala MS, **Huang H\***. Identification of novel inhibitors for TNF- $\alpha$ , TNF receptor-1 and TNF- $\alpha$ , TNF receptor-1 complex using pharmacophore-based approaches. *J Transl Med.* 2019: 17(1):215.
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26. **Huang H\***, He J, Johnson D, et al. Deletion of placental growth factor prevents diabetic retinopathy and is associated with Akt activation and HIF1alpha-VEGF pathway inhibition. *Diabetes.* 2015; 64(1):200-12.
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**Dr. Hu Huang's Patents**

1. **Huang H**, Saddala M, Lennikov A. SMALL MOLECULES TREATMENT FOR THE L-VGCC MEDIATED MICROGLIA-RELATED OCULAR INFLAMMATION AND ANGIOGENESIS DISEASES. Patent No: 19UMC048. University of Missouri. 2019.
2. **Huang H**, Saddala M, Lennikov A. Novel inhibitors of TNF alpha, TNF alpha, and TNF alpha-TNFR1. Patent No: 19UMC072. University of Missouri. 2019.

**Dr. Hu Huang's Bibliography in NCBI:**

<https://www.ncbi.nlm.nih.gov/myncbi/1bWQbV2T0oJsSR/bibliography/public/>

**Dr. Hu Huang's Google Scholar:**

[https://scholar.google.com/citations?hl=en&user=ShWpv60AAAAJ&view\\_op=list\\_works](https://scholar.google.com/citations?hl=en&user=ShWpv60AAAAJ&view_op=list_works)