Dorette Ellis, PhD
North Texas Eye Research Institute
Pharmaceutical Sciences
UNT System College of Pharmacy
Email: Dorette.Ellis@unthsc.edu

Area of Expertise

Dr Ellis's research is focused on discovering new treatments for glaucoma. She is working on identifing new therapeutic targets to protect the retinal ganglion cells, thus preventing blindness.

Qualifications

BS in Biology, Adelphi University

PhD in Neuroscience, University of South Florida

Recent Publications

Sigma-1R protects retinal ganglion cells in optic nerve crush model for glaucoma
Li, L., He, S., Liu, Y., Yorio, T. & Ellis, D. Z., Aug 2021, In: Investigative Ophthalmology and Visual Science. 62, 10, 17.

Impaired TRPV4-eNOS signaling in trabecular meshwork elevates intraocular pressure in glaucoma
Patel, P. D., Chen, Y. L., Kasetti, R. B., Maddineni, P., Mayhew, W., Millar, J. C., Ellis, D. Z., Sonkusare, S. K. & Zode, G. S., 20 Apr 2021, In: Proceedings of the National Academy of Sciences of the United States of America. 118, 16, e2022461118.

Novel thiol containing hybrid antioxidant-nitric oxide donor small molecules for treatment of glaucoma
Amankwa, C. E., Gondi, S. R., Dibas, A., Weston, C., Funk, A., Nguyen, T., Nguyen, K. T., Ellis, D. Z. & Acharya, S., Apr 2021, In: Antioxidants. 10, 4, 575.

Nanoencapsulated hybrid compound sa-2 with long-lasting intraocular pressure–lowering activity in rodent eyes
Stankowska, D. L., Millar, J. C., Kodati, B., Behera, S., Chaphalkar, R. M., Nguyen, T., Nguyen, K. T., Krishnamoorthy, R. R., Ellis, D. Z. & Acharya, S., 2021, In: Molecular vision. 27, p. 37-49 13 p.

Erratum: Hybrid compound SA-2 is neuroprotective in animal models of retinal ganglion cell death (Investigative Ophthalmology and Visual Science (2019) 60 (3064–3073) DOI: 10.1167/iovs.18-25999)
Stankowska, D. L., Dibas, A., Li, L., Zhang, W., Krishnamoorthy, V. R., Chavala, S. H., Nguyen, T. P., Yorio, T., Ellis, D. Z. & Acharya, S., 1 Sep 2019, In: Investigative Ophthalmology and Visual Science. 60, 12, p. 3717 1 p.

Hybrid compound sa-2 is neuroprotective in animal models of retinal ganglion cell death
Stankowska, D. L., Dibas, A., Li, L., Zhang, W., Krishnamoorthy, V. R., Chavala, S. H., Nguyen, T. P., Yorio, T., Ellis, D. Z. & Acharya, S., Jul 2019, In: Investigative Ophthalmology and Visual Science. 60, 8, p. 3064-3073 10 p.

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

Neuroprotective effects of curcumin on endothelin-1 mediated cell death in hippocampal neurons
Stankowska, D. L., Krishnamoorthy, V. R., Ellis, D. Z. & Krishnamoorthy, R. R., 28 May 2017, In: Nutritional Neuroscience. 20, 5, p. 273-283 11 p.

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., May 2017, In: Investigative Ophthalmology and Visual Science. 58, 5, p. 2755-2764 10 p.

Principles of ocular pharmacology

Park, Y., Ellis, D., Mueller, B., Stankowska, D. & Yorio, T., 2017, *Handbook of Experimental Pharmacology*. Springer New York LLC, p. 3-30 28 p. (Handbook of Experimental Pharmacology; vol. 242).