

Graduate School of Biomedical Sciences Dissertation Defense

Novel Tetracycline Reduced Angiogenesis in Mouse Model of Choroidal Neovascularization

Presented by:

Josh Willms

Ph.D. Candidate
Translational Neuroscience and Pharmacology

Wednesday, March 22, 2023 TTUHSC | ACB110 10:00 a.m. – 11:00 a.m.

ABSTRACT: Choroidal neovascularization (CNV) is a leading cause of blindness worldwide. Minocycline and diacetyl minocycline (DAM; modified the to remove antimicrobial action of its parent compound) tetracycline derivatives with antiangiogenic properties. Minocycline and DAM were tested in a laser-induced model of CNV in mice via topical eye drops. Both compounds reduced CNV lesion volume, suggesting that topical administration of minocycline and diacetyl minocycline may represent a novel therapeutic strategy for disorders involving pathological CNV.

Persons with disabilities who may need auxiliary aids or services are requested to contact Lisa Moran at 806.743.1280 at least 24 hours prior to this meeting so that appropriate arrangements can be made.