

# Investigating the Potential of Streptonigrin as a Treatment for Neurodegeneration in Drosophila.

Ashley Li, Massachusetts Academy of Math and Science



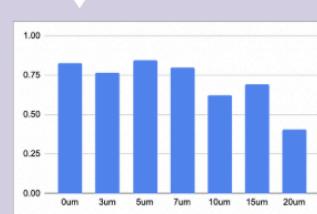
RQ: Does Streptonigrin have potential as a treatment for Alzheimer's and related neurodegenerative diseases?

HYP: Streptonigrin will promote heterochromatin formation, silencing transposable element activity and reducing neurodegenerative symptoms.

What concentration of Streptonigrin should be used?



Average percentage of flies that reached the top of the vial in 2 minutes.



P-VALUE

Concentrations 7 micro moles and lower are safe to work with on drosophila.

Streptonigrin does, at  $\geq 10$  micro moles, have significant impact on the locomotive ability of the fruit fly

Concentrations 7 micromoles and lower should be used moving forward when working with transgenic flies.