

GLAUCOMA

*Retinal Ganglion Cells in
culture in standard
condition and following
OGD stimulation*

Background

Glaucoma, a leading cause of blindness worldwide, is a degenerative disease characterized by retinal ganglion cell (RGC) loss and optic nerve atrophy.

Pathology Model

In order to evaluate the neuroprotective effect of Client's selected compounds, retinal ganglion cells will be exposed to oxygen glucose deprivation (OGD) for a defined time period (i.e. 2 hours, to be determined with Client) in the presence/absence of the candidate compounds at a specific concentration (to be determined with Client).

Readouts

RGC cells will be assayed for the following biological responses:

- Cell viability
- Mitochondrial toxicity
- ROS production
- Proliferative activity