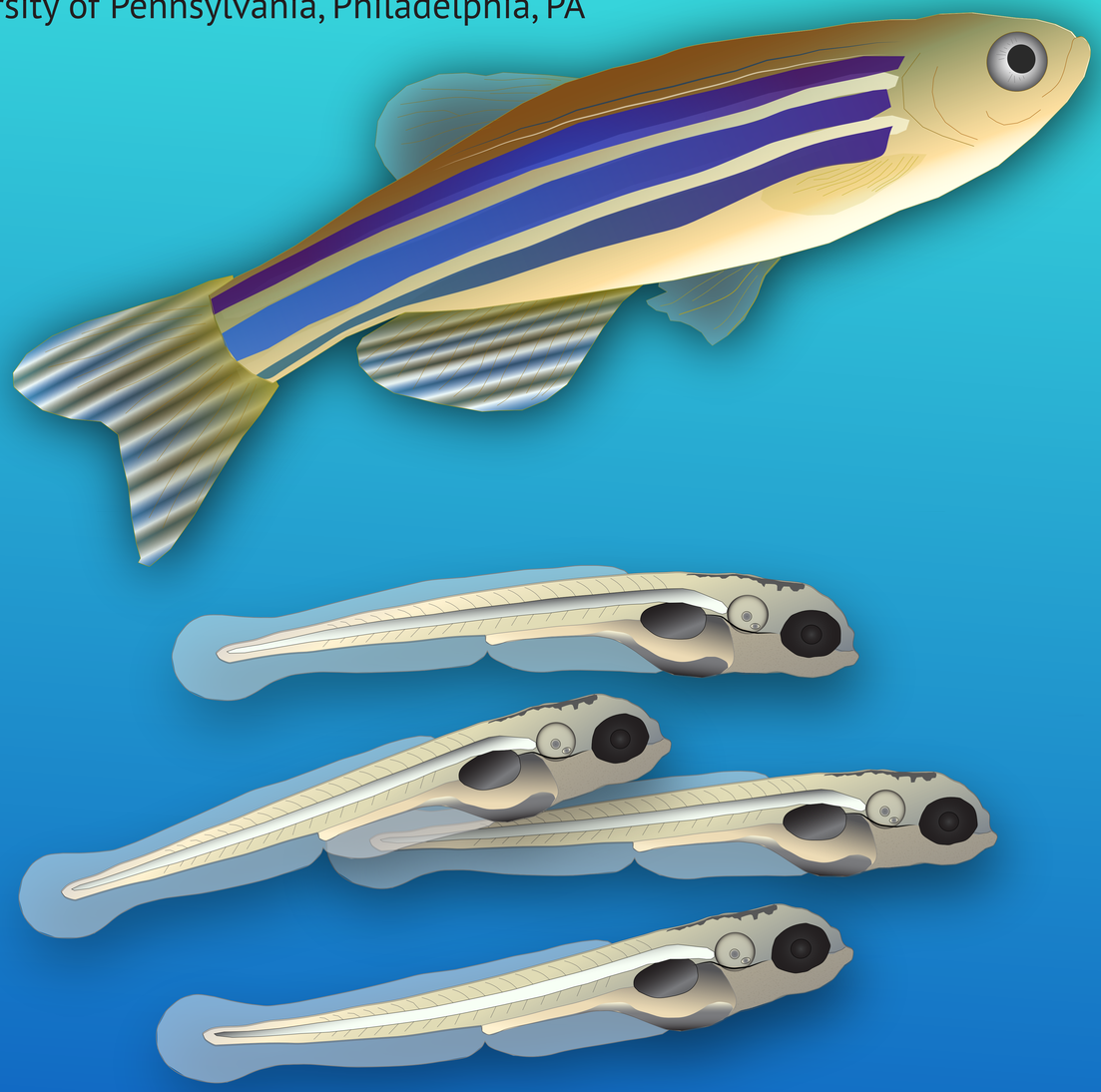
The glycosyltransferase Lh3 encodes a novel regulator of optic nerve regeneration

Beth M. Harvey, Melissa Baxter and Michael Granato
Department of Cell and Developmental Biology
University of Pennsylvania, Philadelphia, PA

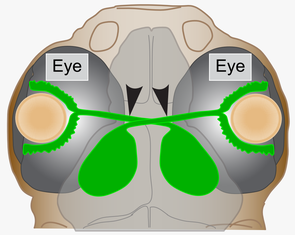


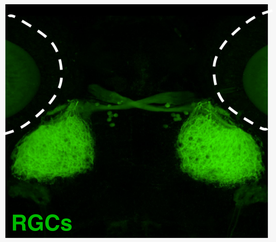
Penn
University of Pennsylvania

PROJECT QUESTIONS

1. What are the cellular and molecular mechanisms that are critical for regeneration of the optic nerve?
2. What are extrinsic cues critical for axonal guidance during optic nerve regeneration ?

OPTIC NERVE TRANSECTION ASSAY IN LARVAL ZEBRAFISH





(Harvey *et al.*, 2019)
https://doi.org/10.1371/journal.pone.0218667

PRELIMINARY DATA

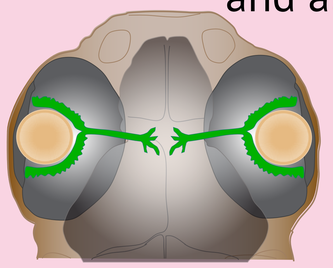
Extrinsic molecular mechanisms that guide RGC axons during regeneration

Glial responses to optic nerve transection

Timelapse imaging in a live larval zebrafish

WANT TO LEARN MORE?

If you would like to see the full poster or have questions
Contact Beth Harvey at **bharvey@pennmedicine.upenn.edu**
and attend the TAGC Poster Q&A Session



Thursday April 30
12:00-12:30pm
Program #1716C