

Project Title: FISH & Chips

Investigator: Garcia, Dana

Department: Biology

Project summary: This REP was intended to fund preliminary research to uncover genes expressed under diurnal regulation and to demonstrate their expression in the retina. Because of budget limitations, we focused effort on using fluorescent in situ hybridization (FISH) to detect expression of specific genes (those encoding muscarinic receptors) in light and dark-adapted retina from bluegill and zebrafish. However, we were unable to get in situ protocols to work on bluegill retina, and we were unable to demonstrate expression using this technique in zebrafish. The graduate students supported by funds from the grant had several other side projects going as well, including immunofluorescence projects, and both students have presented the results of their research at national meetings.