

Zebrafish Is A Powerful Genetic Tool For Vision Research.

Brockerhoff, S.E., Hurley, J.B., Janssen-Bienhold, U., Neuhauss, S.C.F., Driever, W. and Dowling, J.E. (1995) A behavioral screen for isolating zebrafish mutants with visual system defects. *Proc. Natl. Acad. Sci. USA* **92**:10545-10549.

Brockerhoff, S.E., Hurley, J.B., Niemi, G.A. and Dowling, J.E. (1997) A new form of inherited red-blindness identified in zebrafish. *J. Neurosci.* **17**:4236-4242.

Brockerhoff, S.E., Dowling, J.E. and Hurley, J.B. (1998) Zebrafish retinal mutants. *Vision Research* **38**:1335-1339.

Taylor, M.R., Van Epps, H.A., Kennedy, M.J., Saari, J.C., Hurley, J.B. and Brockerhoff, S.E. Biochemical methods to analyze phototransduction and the visual cycle in zebrafish larvae. *Methods in Enzymology* **316**:536-557.

Van Epps, H.A., Yim, C.M., Hurley, J.B. and Brockerhoff, S.E. (2001) Investigations of photoreceptor synaptic transmission and light adaptation in the zebrafish visual mutant *nrc*. *Invest. Ophthalmol. Vis. Sci.* **42**:868-74.

Brockerhoff, S.E., Rieke, F., Matthews, H.R., Taylor, M.R., Kennedy, B., Ankoudinova, I., Niemi, G.A., Tucker, C.L., Xiao, M., Cilluffo, M.C., Fain, G.L. and Hurley, J.B. (2003). Light stimulates a transducin-independent increase of cytoplasmic Ca²⁺ and suppression of current in cones from the zebrafish mutant *nrc*. *J. Neurosci.* **23**:470-80.

Taylor, M.R., Hurley, J.B. Van Epps, H.A. and Brockerhoff, S.E. (2004). A zebrafish model for pyruvate dehydrogenase deficiency: rescue of neurological dysfunction and embryonic lethality using a ketogenic diet. *Proc. Natl. Acad. Sci. USA* **101**:4584-9.

Kennedy, M.J., Dunn, F.A. and Hurley, J.B. (2004). Visual pigment phosphorylation but not transducin translocation can contribute to light adaptation in zebrafish cones. *Neuron* **41**:915-28.

Kennedy, B.N., Stearns, G.W., Smyth, V.A., Ramamurthy, V., van Eeden, F., Ankoudinova, I., Raible, D., Hurley, J.B. Hurley and Brockerhoff, S.E. (2004). Zebrafish *rx3* and *mab21l2* are required during eye morphogenesis. *Dev Biol.* **270**:336-49.

Van Epps, H.A., Hayashi, M., Lucast, L., Stearns, G.W., Hurley, J.B., De Camilli, P., Brockerhoff, S.E. (2004). The zebrafish *nrc* mutant reveals a role for the polyphosphoinositide phosphatase synaptojanin 1 in cone photoreceptor ribbon

anchoring. *J. Neurosci.* 24:8641-50.

Kennedy, B.N., Alvarez, Y., Brockerhoff, S.E., Stearns, G.W., Sapetto-Rebow, B., Taylor, M.R., Hurley, J.B. (2007). Identification of a zebrafish cone photoreceptor specific promoter and genetic rescue of achromatopsia in the *nof* mutant. *Invest. Ophthalm. Vis. Sci.* 48:522-9.