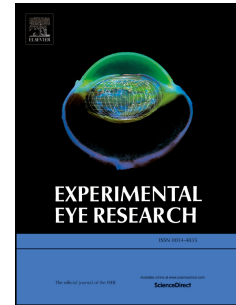


Accepted Manuscript

Characterization of the pleiotropic roles of Sonic Hedgehog during retinal regeneration in adult zebrafish

Jennifer L. Thomas, Gregory W. Morgan, Kaylee M. Dolinski, Ryan Thummel



PII: S0014-4835(16)30372-4

DOI: [10.1016/j.exer.2017.10.003](https://doi.org/10.1016/j.exer.2017.10.003)

Reference: YEXER 7214

To appear in: *Experimental Eye Research*

Received Date: 20 October 2016

Revised Date: 25 August 2017

Accepted Date: 8 October 2017

Please cite this article as: Thomas, J.L., Morgan, G.W., Dolinski, K.M., Thummel, R., Characterization of the pleiotropic roles of Sonic Hedgehog during retinal regeneration in adult zebrafish, *Experimental Eye Research* (2017), doi: 10.1016/j.exer.2017.10.003.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Characterization of the Pleiotropic Roles of Sonic Hedgehog during Retinal Regeneration in Adult Zebrafish

Jennifer L. Thomas^a, Gregory W. Morgan^a, Kaylee M. Dolinski^a, and Ryan Thummel^{a,b}

^aDepartment of Anatomy and Cell Biology, Wayne State University School of Medicine, 540 E. Canfield, Detroit, MI, 48201, USA

^bDepartment of Ophthalmology, Wayne State University School of Medicine, 540 E. Canfield, Detroit, MI, 48201, USA

Email Addresses:

Jennifer L. Thomas
Gregory W. Morgan
Kaylee M. Dolinski
Ryan Thummel

jennythoma27@gmail.com
gwmorgan28@gmail.com
eq0915@wayne.edu
rthummel@med.wayne.edu

Running title: Shh in retinal regeneration

Corresponding Author

Ryan Thummel, Ph.D.
Department of Anatomy and Cell Biology
Department of Ophthalmology
Wayne State University School of Medicine
Detroit, USA
rthummel@med.wayne.edu
(313) 577-7762

Highlights:

- Shh signaling induces Müller cell gliosis
- Shh regulates the percentage of Müller glial cells that re-enter the cell cycle following damage
- Shh signaling regulates the regeneration of inner retinal neurons

Download English Version:

<https://daneshyari.com/en/article/8792091>

Download Persian Version:

<https://daneshyari.com/article/8792091>

[Daneshyari.com](https://daneshyari.com)