

*Curriculum Vitae*  
**Jeffrey M. Harder**

The Jackson Laboratory  
600 Main St.  
Bar Harbor, ME 04609  
Jeffrey.Harder@jax.org

Lab: (207)-288-6000  
Fax: (207)-288-6078  
Born Oct. 5<sup>th</sup>, 1979  
U.S. Citizen

---

## **Education & Positions**

- 2013→Pres. Postdoctoral associate, The Jackson Laboratory, Bar Harbor, ME. Advisor: Dr. Simon John.
- 2012→2013 Postdoctoral associate, Department of Ophthalmology, University of Rochester Medical School, Rochester NY. Advisor: Dr. Richard Libby.
- 2006→2012 Graduate Student, Department of Pathology and Ophthalmology, University of Rochester Medical School, Rochester NY. Thesis Project: *Identification of Bcl2 family members that regulate cell death in glaucoma*. Advisor: Dr. Richard Libby.
- 2003→2006 Vice President, GMR Associates, Inc. Share executive responsibility of defining and reaching business goals and developing the staff, along with managing benefit program compliance and supervising software development. Rochester, NY.
- 2001→2003 Applications Systems Analyst, GMR Associates, Inc. Support critical business strategies by managing the development, implementation, and maintenance of customized software applications.
- 1998→2001 Bachelor of Science in Computer Science, Pennsylvania State University, University Park, PA. Thesis Title, *Comparison of N-body algorithms in parallel computing*. Advisor, Professor P. Plassman.

---

## **Awards & Honors**

- 2014 The Barbara and Joseph Cohen Endowment
- 2013 Immunology Training Fellowship, The Jackson Laboratory
- 2011 National Eye Institute Travel Grant, ARVO
- 2011 Pathology Research Day Poster Award, University of Rochester Medical School.
- 2008 Vision Training Fellowship, University of Rochester.
- 2007 Pathology Graduate Program Award, University of Rochester Medical School.
- 2001 Awarded Scholars Medal by Schreyers Honor College, Pennsylvania State University, University Park, PA.

## Publications

### Peer Reviewed

**Harder J.M.** and Libby R.T. BBC3 (PUMA) regulates developmental apoptosis but not axonal injury induced death in the retina. *Molecular Neurodegeneration*. 2011; 6:50.  
<http://dx.doi.org/10.1186/1750-1326-6-50>

Fernandes K.A., **Harder J.M.**, Fornarola L.B., Freeman R.S., Clark A.F., Pang I.H., John S.W., and Libby R.T. JNK2 and JNK3 are major regulators of axonal-injury induced retinal ganglion cell death. *Neurobiology of Disease*. 2012; 46(2):393-401.  
<http://dx.doi.org/10.1016/j.nbd.2012.02.003>

**Harder J.M.**, Fernandes K.A., and Libby R.T. The Bcl-2 family member BIM has multiple glaucoma-relevant functions in DBA/2J mice. *Scientific Reports*. 2012; 2:530  
<http://dx.doi.org/10.1038/srep00530>

**Harder J.M.**, Ding Q., Fernandes K.A., Cherry J.D., Gan L., and Libby R.T. BCL2L1 (BCL-x) promotes survival of adult and developing retinal ganglion cells. *Molecular and Cellular Neuroscience*. 2012; <http://dx.doi.org/10.1016/j.mcn.2012.07.006>

**Harder J.M.** and Libby R.T. Deficiency in BIM, BID, and BBC3 (Puma) do not prevent axonal injury-induced death. *Cell Death and Differentiation*. 2013; 20:182;  
<http://dx.doi.org/10.1038/cdd.2012.119>.

**Harder J.M.\***, Fernandes K.A.\*, and Libby R.T. JUN regulates early transcriptional responses to axonal injury in retinal ganglion cells. *Experimental Eye Research*. 2013; 112:106-117; <http://dx.doi.org/10.1016/j.exer.2013.04.021>. \*Authors contributed equally.

Huang L., Hu F., Xie X., **Harder J.**, Fernandes K., Zeng X., Libby R., and Gan L. *Pou4f1* and *Pou4f2* are dispensable for the long-term survival of adult retinal ganglion cells in mice. *PLoS ONE*. 2014; 9(4): e94173. <http://dx.doi.org/10.1371/journal.pone.0094173>

Fernandes K.A., **Harder J.M.**, John S.W., Shrager P., and Libby R.T. DLK-dependent signaling is important for somal but not axonal degeneration of retinal ganglion cells following axonal injury. *Neurobiology of Disease*. 2014; 69:108-16;  
<http://dx.doi.org/10.106/j.nbd.2014.05.015>

John S.W., **Harder J.M.**, Fingert J.H., and Anderson M.G. Animals models of exfoliation syndrome, now and future. *Journal of Glaucoma*. 2014; Oct-Nov: S68-72;  
<http://dx.doi.org/10.1097/IJG.000000000000121>

## Presentations & Abstracts

**Harder J.M.**, Ding, Q., Gan, L., Libby, R.T. BH3-only proteins in RGC death. [ARVO Abstract] *Invest. Ophthalmol. Vis. Sci.* 2009; 50:E766.

**Harder J.M.**, Gan, L., Libby, R.T. Analysis of pro-apoptotic Bcl-2 family initiators BID, BIM, and BBC3 in retinal ganglion cell death. [ARVO Abstract] *Invest. Ophthalmol. Vis. Sci.* 2010; 51:2118.

**Harder J.M.**, Fernandes, K.F., Gan L, Libby R.T. JNK-dependent JUN signaling is critical to retinal ganglion cell death after axonal injury [ARVO Abstract] *Invest. Ophthalmol. Vis. Sci.* 2011; 52:3076

Yadav R., Shannon D., **Harder J.M.**, Libby R.T., and Yoon G. Optical coherence microscope for cellular imaging in cornea. [ARVO Abstract] *Invest. Ophthalmol. Vis. Sci.* 2012; 53:3127