

CURRENT EMPLOYMENT

Research Associate, Glaucoma Research Lab and Administrator of the Wilmer Microscopy and Imaging Core Facility (MICF), Wilmer Eye Institute, Johns Hopkins University School of Medicine, Baltimore MD

WORK ADDRESS

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CONTACT INFORMATION

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EDUCATION

Gettysburg College, Gettysburg, PA	B.A.	1982	Biology
Johns Hopkins University, Baltimore, MD	M.S.	1996	Biotechnology

PROFESSIONAL EXPERIENCE

1982-1984: Senior Lab Tech, Population Dynamics, Johns Hopkins University School of Public Health.

1984-1986: EM Technician, Neuropathology Labs, Pathology, Johns Hopkins University School of Medicine

1986-1987: Sales Representative, Reichert-Jung Electron Microscopy Line, Baltimore Instrument Co.

1987-1990: Senior EM Technician, Ophthalmology, Johns Hopkins University School of Medicine

1990-1998: EM Lab Coordinator/Supervisor, Ophthalmology, Johns Hopkins University School of Medicine

1998-2006: Laboratory Manager, Department of Ophthalmology, Johns Hopkins University School of Medicine

2006-present: Research Associate, Department of Ophthalmology, Johns Hopkins University School of Medicine

PROFESSIONAL MEMBERSHIPS

1985-1986: Member, Society for Neuroscience

1987-1988: Member, Chesapeake Electron Microscopy Society

1988-Present: Member, Association for Research in Vision and Ophthalmology

COMMITTEES

1990-1994: Wilmer Support Staff and Communications Committee, Research Technician Representative

2004-present: Microscopy and Imaging Core Facility (MICF) Oversight Committee, MICF Administrator

2006-present: Wilmer 2010 Implementation Team, Reward and Recognition subcommittee

PROFESSIONAL ACCOMPLISHMENTS

1995, 1996: Consultant to Ophthalmic Imaging Systems, assisting with product demonstrations at Academy of Ophthalmology Meetings.

2000: Image from first author article was selected for Investigative Ophthalmology and Vision Sciences cover art, issue 41, volume 3. <http://www.iovs.org/content/vol41/issue3/>

2004: Designed and supervised renovation to the Wilmer Microscopy and Imaging Core Facility (at a total cost of 1 million dollars, including equipment).

2005: Developed MICF website in conjunction with representative of the Office of Corporate Communications. Selected content and designed layout.

2005: Placed 5th in international Zeiss LSM image contest for 3 D rendering of GFP labeled rat retinal ganglion cell from wholemount preparation. <http://www.zeiss.com/c12567be0045acf1/Contents-Frame/1a5e5e7c0d08c87ec12570eb00285648>

2006: Developed space plan for MICF and the Quigley research labs in the upcoming Wilmer Research Building and Outpatient Surgery Facility.

PEER REVIEWED RESEARCH PUBLICATIONS

1. Rosenfeld J, **Dorman ME**, Griffen JW, Gold BG, Sternberger LA, Sternberger NH, Price DL. Distribution of neurofilament antigens after axonal injury. *J Neuropathol Exp Neurol* 1987;46:269-82.
2. Del Priore LV, Glaser BM, Quigley HA, **Dorman ME**, Green WR. Morphology of pig retinal pigment epithelium maintained in organ culture. *Arch Ophthalmol* 1988;106:1286-90.
3. Morrison JC, Jerdan JA, **Dorman ME**, Quigley HA. Structural proteins of the neonatal and adult lamina cribrosa. *Arch Ophthalmol* 1989;107:1220-4.
4. Morrison JC, **Dorman-Pease ME**, Dunkelberger GR, Quigley HA. Optic nerve head extracellular matrix in primary optic atrophy and experimental glaucoma. *Arch Ophthalmol* 1990;108:1020-4.
5. Quigley HA, **Dorman-Pease ME**, Brown AE. Quantitative study of collagen and elastin of the optic nerve head and sclera in human and experimental monkey glaucoma. *Curr Eye Res* 1991;10:877-88.
6. Quigley HA, Brown A, and **Dorman-Pease ME**. Alterations in elastin of the optic nerve head in human and experimental glaucoma. *Br J Ophthalmol*. 1991;75:552-7.
7. Quigley HA, Coleman AL, **Dorman-Pease ME**. Larger optic nerve heads have more fibers in normal monkey eyes. *Arch Ophthalmol* 1991;109:1441-3.
8. Varma R, Quigley HA, **Pease ME**. Changes in optic disc characteristics and the number of nerve fibers in experimental glaucoma. *Am J Ophthalmol* 1992;114(5):554-9.
9. Pasquale LR, Thibault D, **Dorman-Pease ME**, Quigley HA, Jampel HD. Effect of topical mitomycin C on glaucoma filtration surgery in monkeys. *Ophthalmology* 1992;99:14-18.
10. Pasquale LR, **Dorman-Pease ME**, Luttly GA, Quigley HA, Jampel HD. Immunolocalization of TGF-beta 1, TGF beta-2 and TGF beta 3 in the anterior segment of the human eye. *Invest Ophthalmol Vis Sci* 1993;34:23-30.
11. Glovinsky Y, Quigley HA and **Pease ME**. Foveal ganglion cell loss in size dependent in experimental glaucoma. *Invest Ophthalmol Visual Sci*. 1993;34(2):395-400.
12. Burgoyne CF, Varma R, Quigley HA, Vitale S, **Pease ME**, Lenane PL. Global and regional detection of induced optic disc change by digitized image analysis. *Arch Ophthalmol* 1994;112(2):261-8.
13. Quigley HA, **Pease ME**, Thibault DJ. Change in the appearance of elastin in the lamina cribrosa of glaucomatous optic nerve heads. *Graefes Arch Clin Exp Ophthalmol* 1994;32(5):257-61.
14. Derrick RJ, Pasquale LR, **Pease ME**, Quigley HA. A clinical study of peripapillary crescents of the optic disc in chronic experimental glaucoma in monkey eyes. *Arch Ophthalmol* 1994;112(6):846-50.
15. Kendell KR, Quigley HA, Kerrigan LA, **Pease ME**, Quigley EN. Primary open-angle glaucoma is not associated with photoreceptor loss. *Invest Ophthalmol Vis Sci* 1995;36(1):200-5.
16. Quigley HA, Nickells RW, Kerrigan LA, **Pease ME**, Thibault DJ, Zack DJ. Retinal ganglion cell death in experimental glaucoma and after axotomy occurs by apoptosis. *Invest Ophthalmol Vis Sci*. 1995;36(5):774-86.

17. Quigley HA, **Pease ME**. Change in the appearance of the optic disc and nerve fiber layer estimated with the glaucoma-scope in monkey eyes. *J Glaucoma* 1996;5(2):106-16.
18. Quigley EN, Quigley HA, **Pease ME**, Kerrigan LA. Quantitative studies of elastin in the optic nerve heads of persons with open-angle glaucoma. *Ophthalmology* 1996;103(10):1680-5.
19. Kerrigan LA, Zack DJ, Quigley HA, Smith SD, **Pease ME**. TUNEL-positive ganglion cells in human primary open angle glaucoma. *Arch Ophthalmol*. 1997;115(8):1031-5.
20. Kerrigan-Baumrind LA, Quigley HA, **Pease ME**, Kerrigan DF, and Mitchell RS. The number of ganglion cells in glaucoma eyes compared to threshold visual field tests in the same persons. *Invest Ophthalmol Vis Sci* 2000;41:741-748.
21. **Pease ME**, McKinnon SJ, Quigley HA, Kerrigan LA, Zack DJ. Obstructed axonal transport of the neurotrophin receptor TrkB in experimental glaucoma. *Invest Ophthalmol Vis Sci* 2000;41(3):764-77.
22. Vitali S, Smith SD, Quigley HA, Kerrigan-Baumrind LA, **Pease ME**, Varma R, Friedman DS, Katz J, Tielsch JM. Screening performance of functional and structural measurements of neural damage in open-angle glaucoma: a case-control study from the Baltimore Eye Survey. *J Glaucoma* 2000;9(5):346-56.
23. Quigley HA, McKinnon SJ, Zack DJ, **Pease ME**, Kerrigan-Baumrind LA, Kerrigan DF, Mitchell RS. Retrograde axonal transport of brain-derived neurotrophic factor in retinal ganglion cells is blocked by acute intraocular pressure elevation in rats. *Invest Ophthalmol Vis Sci* 2000;41(11):3460-3466.
24. Levkovitch-Verbin H, Quigley HA, D'Anna S, **Pease ME**, Kerrigan-Baumrind LA, Kerrigan DF. Optic nerve transection in monkeys may result in secondary degeneration of retinal ganglion cells. *Invest Ophthalmol Vis Sci* 2001;42(5):975-982.
25. McKinnon SJ, Lehman DM, Kerrigan-Baumrind LA, Merges CA, **Pease ME**, Kerrigan DF, Ransom NL, Tahzib NG, Reitsamer HA, Levkovitch-Verbin H, Quigley HA, Zack DJ. Caspase activation and amyloid precursor protein cleavage in rat ocular hypertension. *Invest Ophthalmol Vis Sci* 2002;43(4):1077-87.
26. Martin KRG, Levkovitch-Verbin H, Valenta D, Baumrind LA, **Pease ME**, Quigley HA. Retinal glutamate transporter changes in experimental glaucoma and after optic nerve transection in the rat. *Invest Ophthalmol Vis Sci* 2002;42(7):2236-43.
27. Levkovitch-Verbin H, Martin KRG, Quigley HA, Baumrind LA, **Pease ME**, Valenta DF. Measurement of amino acid levels in the vitreous humor of rats after chronic intraocular pressure elevation or optic nerve transection. *J Glaucoma* 2002;11(5):396-405.
28. Levkovitch-Verbin H, Quigley HA, Martin KRG, Valenta D, Kerrigan-Baumrind LA, **Pease ME**. Translimbal laser photocoagulation to the trabecular meshwork as a model for glaucoma in rats. *Invest Ophthalmol Vis Sci* 2002;43(2):402-10.
29. Levkovitch-Verbin H, Quigley HA, Martin KR, Zack DJ, **Pease ME**, Valenta DF. A model to study differences between primary and secondary degeneration of retinal ganglion cells in rats by partial optic nerve transection. *Invest Ophthalmol Vis Sci* 2003;44(8):3388-93.
30. Martin KRG, Quigley HA, Zack DJ, Levkovitch-Verbin H, Kielczewski J, Valenta D, Baumrind L, **Pease ME**, Klein RL, Hauswirth WW. Gene therapy with brain derived neurotrophic factor protects retinal ganglion cells in a rat glaucoma model. *Invest Ophthalmol Vis Sci*. 2003;44(10):4357-65.
31. Farkas RH, Chowders I, Hackam AS, Kageyama M, Nickells RW, Otteson DC, Duh EH, Wang C, Valenta DF, Gunatilaka TL, **Pease ME**, Quigley HA, Zack DJ. Increased expression of iron-regulating genes in monkeys and human glaucoma. *Invest Ophthalmol Vis Sci*. 2004;45(5):1410-17.
32. Blair M, **Pease ME**, Hammond J, Valenta D, Kielczewski J, Levkovitch-Verbin H, Quigley H. Effect of glatiramer acetate on primary and secondary degeneration of retinal ganglion cells in the rat. *Invest Ophthalmol Vis Sci*. 2005;46(3):884-90.
33. Monsul NT, Abram RG, Han PJ, Banik R, **Pease ME**, Skolasky RL, Hoffman PN. Intraocular injection of dibutryl cyclic AMP promotes axon regeneration in rat optic nerve. *Exp Neurology*. 2004;186:124-33.

34. Levkovitch-Verbin H, Quigley HA, Martin KR, Harizman N, Valenta DF, **Pease ME**, Melamed S. The transcription factor c-jun is activated in retinal ganglion cells in experimental rat glaucoma. *Exp Eye Res.* 2005;80(5):663-70.
35. Kielczewski JL, **Pease ME**, Quigley HA. The effect of experimental glaucoma and optic nerve transection on amacrine cells in the rat retina. *Invest Ophthalmol Vis Sci.* 2005;46(9):3188-96.
36. Martin KR, Quigley HA, Valenta D, Kielczewski J, **Pease ME**. Optic nerve dynein motor protein distribution changes with intraocular pressure elevation in a rat model of glaucoma. *Exp Eye Res.* 2006; 83(2):255-62.
37. **Pease ME**, Hammond JC, Quigley HA. Manometric calibration and comparison of TonoLab and TonoPen tonometers in rats with experimental glaucoma and in normal mice. *J Glaucoma.* 2006;15:512-519.
38. Xu H, Sta. Iglesia D, Kielczewski JL, Valenta DF, **Pease ME**, Zack DJ, Quigley HA. Characteristics of Progenitor Cells Derived from Adult Ciliary Body in Mouse, Rat, and Human Eyes *Invest Ophthalmol Vis Sci.* 2007 Apr;48(4):1674-82