

Supplementary Figures

***In vivo* photothermal optical coherence tomography of endogenous and exogenous contrast agents in the eye**

Maryse Lapierre-Landry*^{1,2}, Andrew Y. Gordon³, John S. Penn^{3,4}, Melissa C. Skala*^{2,5}

¹ Department of Biomedical Engineering, Vanderbilt University, Nashville, TN

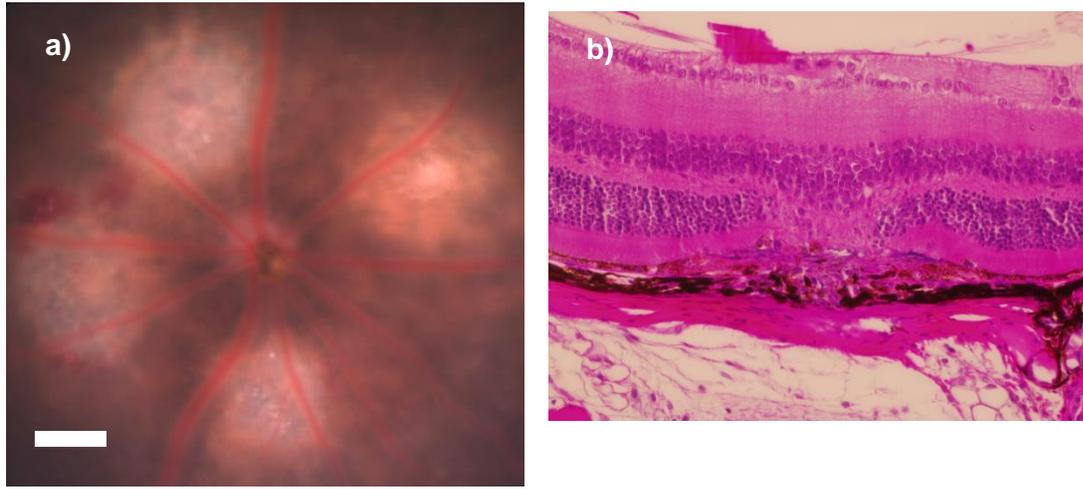
² Morgridge Institute for Research, Madison, WI

³ Department of Molecular Physiology and Biophysics, Vanderbilt University Medical Center, Nashville, TN

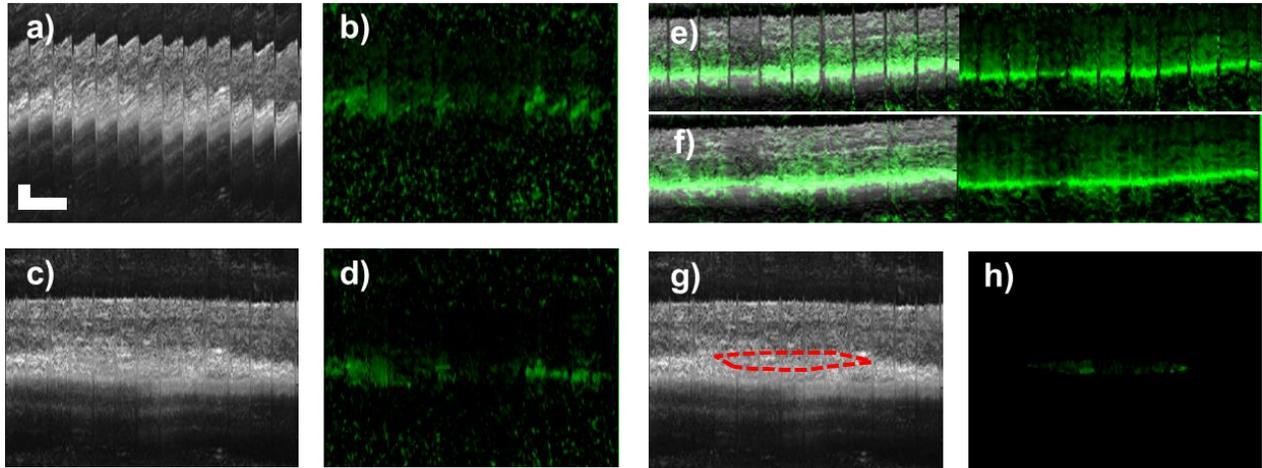
⁴ Department of Ophthalmology and Visual Sciences, Vanderbilt University Medical Center, Nashville, TN

⁵ Department of Biomedical Engineering, University of Wisconsin, Madison, WI

*Corresponding authors



Supplementary Figure 1: Laser induced choroidal neovascularization (LCNV) lesion five days after laser photocoagulation. (a) Fundoscopy image showing four lesions around the optic nerve head. Scale bar: 400 μm . (b) Hematoxylin and eosin (H&E) stained section of an LCNV lesion. Melanin is seen in brown.



Supplementary Figure 2: Image correction protocol. (a) OCT B-scan with breathing artifacts and (b) corresponding PT-OCT B-scan. (c) OCT B-scan and (d) corresponding PT-OCT B-scan after breathing artifact correction using image registration. (e) OCT and PT-OCT B-scan with missing A-scans due to breathing artifact. (f) OCT and PT-OCT B-scan after artifact correction using one-dimensional linear interpolation. (g) Manual selection of the LCNV lesion based on the OCT corrected image. (h) Resulting masked PTOCT signal. Scale bar: 100 μm .