This week in techniques

Approach	Summary	Licensing status	Publication and contact information
Imaging			
Noninvasive, 3D imaging of retinal and choroidal vasculature using phase-variance optical coherence tomography	<p>A noninvasive method to image vasculature in the eye could help monitor treatment responses and diagnose patients who have age-related macular degeneration (AMD) and other choroidal vascular diseases. The method couples noninvasive, high-resolution optical coherence tomography with phase variance–based analysis to generate 3D images of vasculature and circulation in the retina and three outermost layers of the choroid of the human eye. In the eye of a patient with AMD who had geographic atrophy, the imaging method identified vascular abnormalities in the retina and choroid and distinguished between healthy and atrophic regions of the macula. Next steps could include using the method to monitor treatment responses in patients who have AMD.</p> <p>SciBX 6(34); doi:10.1038/scibx.2013.945 Published online Sept. 5, 2013</p>	Patent and licensing status unavailable	<p>Kim, D.Y. <i>et al. Proc. Natl. Acad. Sci. USA</i>; published online Aug. 5, 2013; doi:10.1073/pnas.1307315110 Contact: John S. Werner, University of California, Davis, Calif. e-mail: jswerner@ucdavis.edu Contact: Scott E. Fraser, California Institute of Technology, Pasadena, Calif. e-mail: sefraser@caltech.edu</p>