This week in techniques

Approach	Summary	Licensing status	Publication and contact information
Imaging			
Third-harmonic generation (THG) microscopy for guiding brain surgery	<p>THG microscopy could provide a noninvasive, label-free imaging method for guiding brain surgery. In brain slices from mice, THG microscopy, which relies on geometry and the lipid content of brain tissue to create images, visualized axon fiber bundles, white matter fiber and neurons. In anesthetized mice post-craniotomy, the method imaged blood vessels and neurons close to the surface. Next steps include increasing the depth of imaging and developing a small, portable THG microscope.</p> <p>SciBX 4(15); doi:10.1038/scibx.2011.442 Published online April 14, 2011</p>	Patent and licensing status undisclosed	<p>Witte, S. <i>et al. Proc. Natl. Acad. Sci. USA</i>; published online March 28, 2011; doi:10.1073/pnas.1018743108 Contact: Stefan Witte, VU University Amsterdam, Amsterdam, the Netherlands e-mail: s.m.witte@vu.nl</p>