This week in techniques

Approach	Summary	Licensing status	Publication and contact information
Imaging			
Noninvasive, live imaging of immune responses	<p>Noninvasive, real-time imaging of immune responses could help evaluate transplant outcomes and response to therapy. In immunocompetent mice with GFP-labeled T cells, the imaging method showed a T cell-mediated allojection response against islet cells transplanted in the eye. The approach was used to make 3D, time-lapse recordings of T cell infiltration into the intraocular graft and also showed that the response could be reversed with a small molecule antagonist of CC chemokine receptor 5 (CCR5; CD195) and CXC chemokine receptor 3 (CXCR3). Next steps could include applying the imaging technique to humanized mice and adapting it for <i>in vivo</i> drug screening studies.</p> <p>SciBX 4(30); doi:10.1038/scibx.2011.866 Published online Aug. 4, 2011</p>	<p>Patent application filed covering noninvasive imaging methods for type 1 diabetes; licensing status unavailable</p>	<p>Abdulreda, M.H. <i>et al.</i> <i>Proc. Natl. Acad. Sci. USA</i>; published online July 18, 2011; doi:10.1073/pnas.1105002108</p> <p>Contact: Per-Olof Berggren, Karolinska Institute, Stockholm, Sweden e-mail: per-olof.berggren@ki.se</p> <p>Contact: Antonello Pileggi, University of Miami, Miami, Fla. e-mail: apileggi@med.miami.edu</p> <p>Contact: Alejandro Caicedo, same affiliation as above e-mail: acaicedo@med.miami.edu</p>