This week in techniques

Approach	Summary	Licensing status	Publication and contact information
Imaging			
Glucose chemical exchange saturation transfer (glucoCEST) to image enhanced glucose uptake in tumor tissues	<p>Mouse studies suggest the glucoCEST imaging method could help diagnose cancer in a noninvasive manner without needing radioactive tracers. GlucoCEST is an MRI method that can detect uptake of unlabeled glucose without radioactive tracers because of the magnetic effect of the transfer of hydroxyl protons from glucose to water during MRI. In two mouse models with subcutaneous colorectal cancer xenografts, glucoCEST detected higher glucose accumulation in tumor tissues than in muscle tissues and differentiated between tumors with varied metabolic profiles. Next steps could include testing the method in additional cancer models.</p> <p>SciBX 6(30); doi:10.1038/scibx.2013.809 Published online Aug. 8, 2013</p>	Patent and licensing status unavailable	<p>Walker-Samuel, S. <i>et al. Nat. Med.</i>; published online July 7, 2013; doi:10.1038/nm.3252</p> <p>Contact: Simon Walker-Samuel, University College London, London, U.K. e-mail: simon.walkersamuel@ucl.ac.uk</p>