This week in techniques

Approach	Summary	Licensing status	Publication and contact information
Markers			
Measuring CD8 ⁺ T cell tumor infiltration to guide immunotherapy selection	<p>Studies in mice and in patient samples suggest measuring CD8⁺ T cell infiltration of tumors could help identify patients who will respond to immunotherapies. In samples from patients with melanoma, CD8⁺ T cell infiltration correlated with elevated tumor levels of indoleamine 2,3-dioxygenase (INDO; IDO) and programmed cell death 1 ligand 1 (CD274 molecule; PD-L1; B7-H1). In xenograft mice, CD8⁺ T cell infiltration led to immune-suppressive T_{reg} accumulation by driving T_{reg} recruitment and proliferation in the tumor microenvironment. Next steps include integrating this information into immunotherapy trials and testing combinations of immunotherapies in preclinical models.</p> <p>SciBX 6(37); doi:10.1038/scibx.2013.1047 Published online Sept. 26, 2013</p>	Patent and licensing status undisclosed	<p>Spranger, S. <i>et al. Sci. Transl. Med.</i>; published online Aug. 28, 2013; doi:10.1126/scitranslmed.3006504 Contact: Thomas F. Gajewski, The University of Chicago, Chicago, Ill. e-mail: tgajewsk@medicine.bsd.uchicago.edu</p>