This week in therapeutics

Indication	Target/marker/pathway	Summary	Licensing status	Publication and contact information
Cancer				
Breast cancer	Signal transducer and activator of transcription 5 (STAT5)	<p>Human tissue sample and mouse studies suggest inhibiting STAT5 could help reduce the risk of breast cancer associated with late-age pregnancy. Mice that had been pregnant had greater numbers of tumors and levels of Stat5 in precancerous lesions than unmated mice. In precancerous lesion-bearing mice that had been pregnant, a Stat5 inhibitor decreased tumor incidence and increased tumor-free survival compared with vehicle. Tissue from patients with breast cancer who had been pregnant had higher numbers of STAT5⁺ lesions compared with patients who had never been pregnant. Next steps could include designing specific inhibitors of STAT5 and testing them in preclinical models of pregnancy-associated breast cancer.</p> <p>The STAT5 inhibitor used in the study, StemMed Ltd.'s C188-9, is in preclinical testing in breast cancer.</p> <p>SciBX 7(6); doi:10.1038/scibx.2014.163 Published online Feb. 13, 2014</p>	Patented by Baylor College of Medicine; licensed to StemMed	<p>Haricharan, S. <i>et al. eLife</i>; published online Dec. 31, 2013; doi:10.7554/eLife.00996</p> <p>Contact: Yi Li, Baylor College of Medicine, Houston, Texas e-mail: liy@bcm.edu</p>