This week in therapeutics

Indication	Target/marker/ pathway	Summary	Licensing status	Publication and contact information
Cancer				
Cancer	IL-9	<i>In vitro</i> and mouse studies suggest adoptive transfer of IL-9-producing T cells (Tc9) could help treat cancer. CD8 ⁺ T cells cultured in Tc9-polarizing conditions produced IL-9 and had lower cytotoxic activity against cancer cells <i>in vitro</i> than CD8 ⁺ cytotoxic T cells (Tc1) typically used for adoptive transfer therapy. However, in mice with established melanoma tumors, adoptive transfer of Tc9 cells led to greater IL-9 production, cellular persistence and antitumor activity than adoptive transfer of Tc1 cells. Next steps include testing tumor-specific Tc9 cells in various cancer types.	Patent and licensing status unavailable	Lu, Y. <i>et al. Proc. Natl. Acad. Sci. USA</i> ; published online Jan. 27, 2014; doi:10.1073/pnas.1317431111 Contact: Qing Yi, Cleveland Clinic, Cleveland, Ohio e-mail: yiq@ccf.org
<i>SciBX</i> 7(8); doi:10.1038/scibx.2014.221 Published online Feb. 27, 2014				