This week in therapeutics

Indication	Target/marker/ pathway	Summary	Licensing status	Publication and contact information
Autoimmune disease				
Autoimmune	CD4; CD52; sialic acid binding Ig-like lectin 10 (SIGLEC10)	<p>Studies in mice and patient samples suggest T cells with high CD52 levels could help prevent autoimmune diseases such as type 1 diabetes. In samples from patients who have type 1 diabetes, CD4⁺ T cells expressing high levels of CD52 showed impaired responsiveness to an autoantigen and were present at lower levels compared with samples from healthy controls and from patients with type 2 diabetes. In nonobese diabetic mice, adoptive transfer of T cell populations depleted of cells with high CD52 expression led to accelerated disease onset compared with transfer of nondepleted T cell populations. In cell culture, the immunosuppressive activity of T cells with high CD52 expression was mediated by the binding of soluble CD52 to SIGLEC10. Next steps could include determining how the CD52-SIGLEC10 interaction could be targeted to prevent autoimmune disease.</p> <p>SciBX 6(23); doi:10.1038/scibx.2013.568 Published online June 13, 2013</p>	Patent and licensing status unavailable	<p>Bandala-Sanchez, E. <i>et al. Nat. Immunol.</i>; published online May 19, 2013; doi:10.1038/ni.2610</p> <p>Contact: Leonard Harrison, The Walter and Eliza Hall Institute of Medical Research, Parkville, Victoria, Australia e-mail: harrison@wehi.edu.au</p>