This week in therapeutics

Indication	Target/marker/ pathway	Summary	Licensing status	Publication and contact information
Endocrine disease				
Diabetes	Histone deacetylase 4 (HDAC4); HDAC5; HDAC7	<p>A study in mice suggests antagonizing the class IIa HDACs—HDAC4, HDAC5 and HDAC7—could help treat type 2 diabetes. In mouse models of type 2 diabetes, small hairpin RNA against <i>HDAC4</i>, <i>HDAC5</i> and <i>HDAC7</i> decreased fasting glucose levels and increased glucose tolerance compared with scrambled shRNA controls. Next steps include additional genetic and pharmacological experiments to explore the effects of class IIa HDAC inhibition in cellular and mouse models.</p> <p>SciBX 4(22); doi:10.1038/scibx.2011.628 Published online June 2, 2011</p>	Patent application filed; available for licensing	<p>Mihaylova, M.M. <i>et al. Cell</i>; published online May 13, 2011; doi:10.1016/j.cell.2011.03.043 Contact: Reuben J. Shaw, Salk Institute for Biological Studies, La Jolla, Calif. e-mail: shaw@salk.edu</p>