This week in therapeutics

Indication	Target/marker/pathway	Summary	Licensing status	Publication and contact information
Neurology				
Pain	Adenylate cyclase 1 (ADCY1; AC1)	<p>Studies in cell culture and in rodents suggest that a small molecule antagonist of AC1 could help treat neuropathic and inflammatory pain. In a cell culture assay, the small molecule NB001 inhibited AC1 with an IC_{50} value of 10 μM and with selectivity over other adenylate cyclase isoforms. In mouse and rat models of neuropathic and inflammatory pain, NB001 decreased motor activity and anxiety in response to painful stimulus compared with saline controls. Next steps include optimization and further preclinical testing of NB001.</p> <p>SciBX 4(6); doi:10.1038/scibx.2011.170 Published online Feb. 10, 2011</p>	Patent application filed covering use of NB001 to treat pain; available for licensing	<p>Wang, H. <i>et al. Sci. Transl. Med.</i>; published online Jan. 12, 2011; doi:10.1126/scitranslmed.3001269</p> <p>Contact: Min Zhuo, University of Toronto, Toronto, Ontario, Canada e-mail: min.zhuo@utoronto.ca</p>