This week in therapeutics

Indication	Target/marker/pathway	Summary	Licensing status	Publication and contact information
Cardiovascular disease				
Cardiovascular disease	ATP-binding cassette sub-family G member 4 (ABCG4); lyn kinase (LYN); thrombopoietin receptor (CD110; Mpl)	Cell culture and mouse studies suggest activating LYN or increasing high-density lipoprotein (HDL) levels could reduce platelet production and help prevent thrombocytosis. In mice with accelerated development of thrombocytosis from lack of <i>Abcg4</i> , bone marrow megakaryocyte progenitors produced more platelets and had greater cell surface Mpl expression than progenitors from wild-type mice. In wild-type mice with hypercholesterolemia, infusion of HDL decreased megakaryocyte progenitor proliferation, platelet counts and cell-surface Mpl expression compared with vehicle. In megakaryocyte progenitor cells lacking <i>Abcg4</i> , a small molecule LYN activator decreased Mpl expression compared with vehicle. Next steps include testing the effect of LYN activation and HDL infusion in additional mouse models.	Patent application filed; available for licensing	Murphy, A.J. <i>et al. Nat. Med.</i> ; published online April 14, 2013; doi:10.1038/nm.3150 Contact: Nan Wang, Columbia University, New York, N.Y. e-mail: nw30@columbia.edu
SciBX 6(16); doi:10.1038/scibx.2013.390 Published online April 25, 2013				