This week in therapeutics

Indication	Target/marker/ pathway	Summary	Licensing status	Publication and contact information
Hematology				
Transfusion	Hemoglobin	<p>Rodent and sheep studies suggest S-nitrosylation of hemoglobin in banked red blood cells (RBCs) could improve blood transfusion outcomes. In a rat model for hemorrhage, transfusion of re-nitrosylated, stored RBCs restored muscle oxygenation levels to baseline, whereas transfusion of untreated, stored RBCs did not. In two sheep models of anemia, transfusion of re-nitrosylated, stored RBCs increased muscle oxygenation compared with transfusion of untreated, stored RBCs and also improved cardiovascular and renal function. Next steps include characterizing baseline oxygenation levels in humans after receiving banked blood and comparing re-nitrosylated blood with banked blood in a clinical trial.</p> <p>SciBX 6(27); doi:10.1038/scibx.2013.684 Published online July 18, 2013</p>	Multiple patent applications filed covering re-nitrosylation of blood; licensing details available from Case Western Reserve University	<p>Reynolds, J.D. <i>et al. Proc. Natl. Acad. Sci. USA</i>; published online June 24, 2013; doi:10.1073/pnas.1306489110</p> <p>Contact: Jonathan S. Stamler, Case Western Reserve University, Cleveland, Ohio e-mail: jonathan.stamler@case.edu</p>