This week in therapeutics

Indication	Target/marker/pathway	Summary	Licensing status	Publication and contact information
Endocrine/metabolic disease				
Diabetes	Glycerol-3-phosphate dehydrogenase 2 mitochondrial (GPD2)	Rodent and <i>in vitro</i> studies suggest inhibiting GPD2 can help treat type 2 diabetes. In rat mitochondrial lysates, metformin was shown to inhibit the redox shuttle enzyme GPD2. In rats and mice, an antisense oligonucleotide targeting <i>Gpd2</i> or knockout of <i>Gpd2</i> blocked metformin-mediated effects on glucose homeostasis, endogenous glucose production and cellular redox state. Next steps could include developing pharmacological GPD2 inhibitors. <i>SciBX</i> 7(24); doi:10.1038/scibx.2014.710 Published online June 19, 2014	Patent and licensing status unavailable	Madiraju, A.K. <i>et al. Nature</i> ; published online May 21, 2014; doi:10.1038/nature13270 Contact: Gerald I. Shulman, Yale School of Medicine, New Haven, Conn. e-mail: gerald.shulman@yale.edu