

This week in therapeutics

Indication	Target/marker/pathway	Summary	Licensing status	Publication and contact information
Cardiovascular disease				
Ischemia/ reperfusion injury	Glutathione peroxidase 4 (GPX4)	<p>Mouse studies suggest inhibiting ferroptosis could help treat ischemia/reperfusion injury in the liver and kidney. The GPX4 enzyme decreases toxic phospholipid hydroperoxides associated with ferroptosis, an apoptosis- and necrosis-independent form of cell death. In a mouse model of hepatic ischemia/reperfusion injury, the spiroquinoxalinamine liproxstatin-1 decreased markers of phospholipid hydroperoxidation and hepatic tissue injury compared with vehicle. Next steps include improving the physicochemical and <i>in vivo</i> properties of liproxstatin-1 and evaluating the compound in indications related to ischemia/reperfusion injury.</p> <p>SciBX 7(48); doi:10.1038/scibx.2014.1409 Published online Dec. 18, 2014</p>	Patent application filed; available for licensing	<p>Friedmann Angeli, J.P. <i>et al. Nat. Cell Biol.</i>; published online Nov. 17, 2014; doi:10.1038/ncb3064</p> <p>Contact: Marcus Conrad, German Research Center for Environmental Health, Neuherberg, Germany e-mail: marcus.conrad@helmholtz-muenchen.de</p>