



## This week in therapeutics

Indication	Target/marker/pathway	Summary	Licensing status	Publication and contact information
Pulmonary disease				
Emphysema	Sirtuin 1 (SIRT1)	Mouse studies suggest activating SIRT1 could help treat emphysema. In mice, Sirt1 knockout in airway epithelium decreased lung function and tolerance to exercise compared with normal Sirt1 expression. In mice exposed to cigarette smoke or elastase, Sirt1 overexpression or treatment with the SIRT1 activator SRT1720 decreased emphysema symptoms compared with normal Sirt1 expression or vehicle, respectively. Next steps include IND-enabling preclinical studies. GlaxoSmithKline plc's Sirtris Pharmaceuticals Inc. subsidiary has SIRT1 activators, including SRT1720, in clinical and preclinical testing for various conditions.  Elixir Pharmaceuticals Inc. has a SIRT1 activator in preclinical testing to treat obesity and diabetes.	Patent applications filed; available for licensing	Yao, H. et al. J. Clin. Invest.; published online May 1, 2012; doi:10.1172/JCI60132 Contact: Irfan Rahman, University of Rochester Medical Center, Rochester, N.Y. e-mail: irfan_rahman@urmc.rochester.edu
		SciBX 5(20); doi:10.1038/scibx.2012.531 Published online May 17, 2012		