

## This week in therapeutics

Indication	Target/marker/pathway	Summary	Licensing status	Publication and contact information
<b>Cardiovascular disease</b>				
Heart failure	ATPase Ca <sup>++</sup> transporting cardiac muscle slow twitch 2 (ATP2A2; SERCA2A); SMT3 suppressor of mif two 3 homolog 1 (SUMO1)	<p>Studies in mice and in patient samples suggest upregulating cardiac SUMO1 could help treat heart failure. In heart failure patient samples, levels of SUMO1 and SUMOylation levels of SERCA2A, a transporter implicated in heart failure, were lower in failing hearts than normal hearts. In a mouse model of heart failure, animals overexpressing SUMO1 had greater heart function and longer survival than wild-type mice. Next steps include testing the effects of <i>SUMO1</i> gene therapy in pig models of heart failure and screening for compounds that increase SUMOylation of SERCA2A.</p> <p><b>SciBX 4(37); doi:10.1038/scibx.2011.1040</b>  <b>Published online Sept. 22, 2011</b></p>	<p>Patent application filed; available for licensing from Mount Sinai School of Medicine</p> <p><b>Contact:</b> William Chiang, Mount Sinai School of Medicine, New York, N.Y.            e-mail: <a href="mailto:william.chiang@exchange.mssm.edu">william.chiang@exchange.mssm.edu</a></p>	<p>Kho, C. <i>et al. Nature</i>; published online Sept. 7, 2011; doi:10.1038/nature10407</p> <p><b>Contact:</b> Roger J. Hajjar, Mount Sinai School of Medicine, New York, N.Y.            e-mail: <a href="mailto:roger.hajjar@mssm.edu">roger.hajjar@mssm.edu</a></p>