

### This week in therapeutics

Indication	Target/marker/pathway	Summary	Licensing status	Publication and contact information
<b>Neurology</b>				
Stroke	Transient receptor potential cation channel subfamily M member 2 (TRPM2); NMDA receptor NR2A subtype (GRIN2A; NR2A); GRIN2B (NR2B)	<p>Mouse studies suggest inhibiting TRPM2 could help prevent ischemic damage to neurons. In a mouse model of stroke, <i>Trpm2</i> knockout mice showed decreases in the degree of cerebral ischemia compared with unaltered mice. In mouse hippocampal slices and extracts, <i>Trpm2</i> knockout increased the ratio of GRIN2A to GRIN2B subunits of synaptic NMDARs and increased levels of GRIN2A-mediated prosurvival signaling proteins compared with no alteration. Next steps could include testing TRPM2 inhibitors in preclinical models of stroke.</p> <p><b>SciBX 6(48); doi:10.1038/scibx.2013.1398</b>  <b>Published online Dec. 19, 2013</b></p>	Patent and licensing status unavailable	<p>Alim, I. <i>et al. J. Neurosci.</i>; published online Oct. 30, 2013; doi:10.1523/JNEUROSCI.1729-13.2013</p> <p><b>Contact:</b> Michael Tymianski, Toronto Western Hospital, Toronto, Ontario, Canada            e-mail: <a href="mailto:mike.tymianski@uhn.ca">mike.tymianski@uhn.ca</a></p>