

## This week in therapeutics

Indication	Target/marker/pathway	Summary	Licensing status	Publication and contact information
<b>Neurology</b>				
Pain	Sphingosine 1-phosphate receptor 1 (S1PR1; S1P1; EDG1)	<p><i>In vitro</i> and rat studies suggest inhibiting S1PR1 could help treat chemotherapy-induced peripheral neuropathy. In rats treated with paclitaxel, which increases production of the S1PR1 ligand sphingosine 1-phosphate and causes chemotherapy-induced neuropathic pain, intratracheal administration of a selective S1PR1 antagonist decreased mechanical allodynia and hypersensitivity compared with vehicle administration. In rats, oral paclitaxel plus Gilenya fingolimod, a sphingosine 1-phosphate receptor modulator that depletes S1PR1 levels, decreased neuropathic pain compared with vehicle. Next steps include IND-enabling studies on S1PR1 antagonists and agonists.</p> <p>Mitsubishi Tanabe Pharma Corp. and Novartis AG market Gilenya fingolimod to treat multiple sclerosis (MS).</p> <p>Noxxon Pharma AG has the S1PR1 inhibitor NOX-S93 in preclinical testing to treat cancer and autoimmune diseases.</p> <p><b>SciBX 7(27); doi:10.1038/scibx.2014.801</b>  <b>Published online July 17, 2014</b></p>	Patented by Saint Louis University in the U.S. and patent pending in Europe; exclusively licensed by Biointervene Inc.	<p>Janes, K. <i>et al. J. Biol. Chem.</i>; published online May 29, 2014; doi:10.1074/jbc.M114.569574</p> <p><b>Contact:</b> Daniela Salvemini, Saint Louis University School of Medicine, St. Louis, Mo.  e-mail: <a href="mailto:salvemd@slu.edu">salvemd@slu.edu</a></p>