

This week in therapeutics

Indication	Target/marker/pathway	Summary	Licensing status	Publication and contact information
Neurology				
Parkinson's disease (PD)	Dopamine D5 receptor	<p>Studies in rodents suggest inhibiting dopamine D5 receptor in the subthalamic nucleus (STN) could help treat PD. In brain slices from normal rats, a dopamine D5 receptor inverse agonist decreased constitutive activity of dopamine D5 receptor compared with buffer. In brain slices from normal and dopamine-depleted rats, the inverse agonist decreased burst firing in the STN compared with buffer. In motor-impaired, dopamine-depleted rats, intrasubthalamic injection of the inverse agonist increased locomotor activity and normalized cellular metabolic activity compared with saline injection. Next steps could include designing dopamine D5 receptor-specific antagonists and testing in preclinical models of PD.</p> <p>SciBX 6(40); doi:10.1038/scibx.2013.1136 Published online Oct. 17, 2013</p>	Patent and licensing status unavailable	<p>Chetrit, J. <i>et al. J. Neurosci.</i>; published online Sept. 11, 2013; doi:10.1523/JNEUROSCI.0453-13.2013 Contact: Abdelhamid Benazzouz, University of Bordeaux Segalen, Bordeaux, France e-mail: abdelhamid.benazzouz@u-bordeaux2.fr</p>