This week in techniques

Approach	Summary	Licensing status	Publication and contact information
Imaging			
A radiolabeled P glycoprotein (ABCB1; MDR; P-gp) substrate for monitoring treatment of neurological diseases	<p><i>In vitro</i> and rat studies identified new tracers that could monitor P-gp function in psychiatric disorders and neurodegenerative diseases. P-gp is an efflux pump expressed in the blood brain barrier. It can cause drug resistance and its function is reduced in neurodegenerative diseases. In rats, microPET scans show that a P-gp inhibitor radioisotopically labeled with ^{11}C undergoes greater cerebral uptake than the previously used tracer ^{11}C-verapamil. Next steps could include further modification of the new inhibitor to obtain a derivative with an affinity that is high enough to allow quantitative imaging.</p> <p>SciBX 2(27); doi:10.1038/scibx.2009.1096 Published online July 16, 2009</p>	Patent and licensing status unavailable	<p>Waarde, A. <i>et al. J. Med. Chem.</i>; published online June 16, 2009; doi:10.1021/jm900485a</p> <p>Contact: Aren van Waarde, University of Groningen, Groningen, the Netherlands e-mail: a.van.waarde@ngmb.umcg.nl</p>