

### This week in techniques

Approach	Summary	Licensing status	Publication and contact information
<b>Drug platforms</b>			
Liposomes with absorption enhancers to improve oral bioavailability	<p><i>Ex vivo</i> and <i>in vivo</i> studies suggest chemically stabilized liposomes containing absorption enhancers could be useful for delivering drugs across the intestinal mucosal surface. Liposomes with the stabilizing lipid glycerylcaldityl tetraether, the absorption enhancer cetylpyridinium chloride (CpCl) and model drug human growth hormone (hGH) were generated by dual asymmetric centrifugation. In rat small intestinal cross-sections, the liposomes showed strong interactions with the mucosal surface of the duodenum and jejunum. In rats, oral application of the hGH-loaded liposomes enabled 3.37% plasma bioavailability versus 0.01% for orally applied free hGH. Next steps could include testing the liposomes in a disease model.</p> <p><b>SciBX 7(45); doi:10.1038/scibx.2014.1331</b>                      Published online Nov. 20, 2014</p>	Patent and licensing status unavailable	<p>Parmentier, J. <i>et al.</i> <i>J. Pharm. Sci.</i>; published online Oct. 20, 2014; doi:10.1002/jps.24215  <b>Contact:</b> Gert Fricker, University of Heidelberg, Heidelberg, Germany                      e-mail: <a href="mailto:gert.fricker@uni-hd.de">gert.fricker@uni-hd.de</a></p>