

This week in techniques

Approach	Summary	Licensing status	Publication and contact information
Drug delivery			
Adhesive polyvinyl alcohol (PVA)-chitosan films for sublingual drug delivery	<p>Cell and tissue culture studies suggest adhesive films composed of PVA and chitosan could be useful for sublingual drug delivery and sustained release of peptide and protein drugs. <i>In vitro</i>, PVA-chitosan mucoadhesive films loaded with glutathione showed sustained release of the antioxidant over 6 hours compared with sustained release over 15 minutes for free glutathione in dissolution media. In excised porcine mucosal epithelial membranes, PVA-chitosan film enhanced glutathione permeability threefold compared with a PVA-methylcellulose film. Next steps could include animal testing of mucoadhesive films loaded with protein drugs and development of a system to aid attachment of film to the mucosal epithelial membrane.</p> <p>SciBX 7(43); doi:10.1038/scibx.2014.1274 Published online Nov. 6, 2014</p>	Patent and licensing status unavailable	<p>Chen, G. <i>et al. J. Pharm. Pharmacol.</i>; published online Oct. 10, 2014; doi:10.1111/jphp.12313 Contact: Jingyuan Wen, The University of Auckland, Auckland, New Zealand e-mail: j.wen@auckland.ac.nz</p>