

This week in techniques

Approach	Summary	Licensing status	Publication and contact information
Drug delivery			
Polymer nanoparticle-based extraocular drug delivery	<p>A polymer nanoparticle-based drug delivery platform could enable long-term delivery of drugs directly to the eyes. <i>In vitro</i>, hyaluronic acid-coated nanoparticles loaded with the generic antibiotic gatifloxacin or the anti-inflammatory steroid prednisolone released cargo and generated a steady increase in the concentration of each drug over 24 hours. In rabbits, application of the gatifloxacin-loaded nanoparticles to the eyes led to higher and longer-lasting concentrations of the drug in the cornea and aqueous humor than were seen in control animals receiving free gatifloxacin. Future studies could include testing the nanoparticles in animal models of ocular conditions.</p> <p>SciBX 3(9); doi:10.1038/scibx.2010.292 Published online March 4, 2010</p>	Patent and licensing status unavailable	<p>Ibrahim, H. <i>et al. Mol. Pharm.</i>; published online Feb. 17, 2010; doi:10.1021/mp900279c Contact: Howida Kamal Ibrahim, Cairo University, Cairo, Egypt e-mail: howidakamal@gmail.com</p>