

### This week in techniques

Approach	Summary	Licensing status	Publication and contact information
<b>Drug delivery</b>			
Nanotubes for rapid photothermal intracellular drug delivery	<p>Multiwalled carbon nanotubes could be useful for increasing localized drug uptake and reducing the treatment time required for intraperitoneal hyperthermic chemotherapy. Carbon nanotubes absorb infrared radiation, which results in localized heating and increased drug uptake by cells. In human colorectal cancer cells, infrared-based heating of the nanotubes to 42 °C caused larger chemotherapy-induced changes in cell viability than were seen in unheated controls that received chemotherapy. Next steps include evaluating nanotube-based hyperthermic therapy in additional disease models.</p> <p><b>SciBX 2(26); doi:10.1038/scibx.2009.1059</b>  <b>Published online July 9, 2009</b></p>	<p>Patent application filed covering use with multiple chemotherapeutic agents that have shown increased benefit when delivered in a hyperthermia setting; available for licensing from the Wake Forest University Office of Technology Asset Management</p>	<p>Levi-Polyachenko, N. <i>et al. Mol. Pharm.</i>; published online June 22, 2009;            doi:10.1021/mp800250e  <b>Contact:</b> Nicole H. Levi-Polyachenko, Wake Forest University School of Medicine, Winston-Salem, N.C.            e-mail: <a href="mailto:nlevi@wfubmc.edu">nlevi@wfubmc.edu</a></p>