This week in techniques

Approach	Summary	Licensing status	Publication and contact information
Drug platforms			
Tumor-selective delivery of antisense oligomers (antimiRs) against oncogenic microRNAs	<p>miRNA-targeted antimiRs conjugated to a peptide with a low pH-induced transmembrane structure (pHLIP) could help treat solid tumors. The pHLIP is designed to transport antimiRs across cell plasma membranes under the acidic conditions of the tumor microenvironment. In mice bearing microRNA-155 (miR-155)-dependent lymphomal tumors, pHLIP conjugated to an antimiR against miR-155 decreased tumor growth and increased survival compared with the unconjugated antimiR against miR-155 or a locked nucleic acid against miR-155. Next steps could include evaluating the pHLIP-conjugated antimiRs in additional tumor models.</p> <p>SciBX 7(48); doi:10.1038/scibx.2014.1418 Published online Dec. 18, 2014</p>	Patent and licensing status unavailable	<p>Cheng, C.J. <i>et al. Nature</i>; published online Nov. 17, 2014; doi:10.1038/nature13905 Contact: Frank J. Slack, Yale University, New Haven, Conn. e-mail: fslack@bidmc.harvard.edu</p>