

This week in techniques

Approach	Summary	Licensing status	Publication and contact information
Drug platforms			
Inhibiting recycling pathways to enhance cellular retention of lipid nanoparticle (LNP)-delivered small interfering RNAs	Inhibiting exocytosis of LNP-delivered siRNAs from endosomes could enhance their retention within the cell. In cultured cells, knockout of <i>Niemann-Pick disease type C1 (NPC1)</i> , which encodes a protein important for endosome recycling, increased siRNA accumulation and gene silencing compared with no knockout. In cells, genetic depletion of other endosome recycling targets yielded comparable outcomes. Next steps could include targeting proteins and lipids involved in biogenesis and endosome trafficking to enhance cellular retention of LNP-delivered siRNA.	Patent and licensing status unavailable	Sahay, G. <i>et al. Nat. Biotechnol.</i> ; published online June 23, 2013; doi:10.1038/nbt.2614 Contact: Daniel G. Anderson, Massachusetts Institute of Technology, Cambridge, Mass. e-mail: dgander@mit.edu
	SciBX 6(30); doi:10.1038/scibx.2013.808 Published online Aug. 8, 2013		