

Dharmacon™ siRNA *in vivo* references

A selection of publications demonstrating Dharmacon siRNA for *in vivo* applications:

1. R.H.E. Chong, E. Gonzalez-Gonzalez, *et al.* [Gene silencing following siRNA delivery to skin via coated steel microneedles: In vitro and in vivo proof-of-concept](#). *Journal of Controlled Release* **166**(3), 211–219 (2013).
•Dharmacon™ Accell™ siRNA delivered by microneedle treatment to paws (mouse)
2. C. Cheng, R. Haasdijk, *et al.* [Endothelial cell-specific FGD5 involvement in vascular pruning defines neovessel fate in mice](#). *Circulation* **125**(25), 3142–3158 (2012).
•Accell siRNA delivered by intravitreal injections into the eye (mouse)
3. H. Nakajima, T. Kubo, *et al.* [A rapid, targeted, neuron-selective, in vivo knockdown following a single intracerebroventricular injection of a novel chemically modified siRNA in the adult rat brain](#). *J. Biotechnol.* **157**(2), 326–333 (2012).
•Accell siRNA delivered by injection into the cortical region of the brain (rat)
4. P.A. Singleton, T. Mirzapozova, *et al.* [High-molecular-weight hyaluronan is a novel inhibitor of pulmonary vascular leakiness](#). *Am. J. Physiol. Lung. Cell Mol. Physiol.* **299**, L639–L651 (2010).
•Dharmacon™ siSTABLE™ siRNA delivered by intrajugular ACE antibody-conjugated liposomal delivery (mouse)
5. M. Snapyan, M. Lemasson, *et al.* [Vasculature guides migrating neuronal precursors in the adult mammalian forebrain via brain-derived neurotrophic factor signaling](#). *J. Neuroscience* **29**(13), 4172–4188 (2009).
•siSTABLE siRNA using 7s osmotic pump into carotid artery (mouse)
6. H. Watanabe, H. Saito, *et al.* [Activation of phosphatidylinositol-3 kinase regulates pancreatic duodenal Homeobox-1 in duct cells during pancreatic regeneration](#). *Pancreas* **36**(2):153–159 (2008).
•siSTABLE siRNA delivered by hydrodynamic tail vein injection (mouse)
7. S.D. Larson, L.N. Jackson, *et al.* [Effectiveness of siRNA uptake in target tissues by various delivery methods](#). *Surgery* **142**(2), 262–269 (2007).
•Fluorescent-labeled siRNA; a comparison of delivery by hydrodynamic IV injection, standard IV injection, intraperitoneal administration and rectal administration (mouse)
8. N.C. Henderson, A.C. Mackinson, *et al.* [Galectin-3 regulates myofibroblast activation and hepatic fibrosis](#). *Proc. Natl. Acad. Sci. U S A* **103**(13), 5060–5065 (2006).
•siSTABLE siRNA delivered by hydrodynamic tail vein injection (mouse)
9. A. DiFeo, F. Huang *et al.* [KLF6-SV1 Is a Novel Antiapoptotic Protein That Targets the BH3-Only Protein NOXA for Degradation and Whose Inhibition Extends Survival in an Ovarian Cancer Model](#). *Cancer Research* **69**, 4733–41 (2009)
•Accell siRNA delivered to tumor via intraperitoneal injection (mouse)
10. MP Zafra, C. Mazzeo *et al.* [Gene Silencing of SOCS3 by siRNA Intranasal Delivery Inhibits Asthma Phenotype in Mice](#). *PLOS ONE* **9**(3) 1–11 (2014)
•Accell siRNA delivered intranasally to lungs (mouse)
11. H. Xu, TW. Rosler *et al.* [Tau Silencing by siRNA in the P301S Mouse Model of Tauopathy](#). *Current Gene Therapy* **14**, 343–351 (2014)
•Accell siRNA delivered via intracerebral stereotactic injection to brain (mouse)
12. K.A. Mitchnick, S. Creighton, *et al.* [Differential contributions of de novo and maintenance DNA methyltransferases to object memory processing in the rat hippocampus and perirhinal cortex—a double dissociation](#). *European Journal of Neuroscience*, 1–14 (2014)
•Accell siRNA delivered via intracranial cannula infusion (rat)
13. Lei Huang *et al.* [Phosphoinositide 3- Kinase Gamma Contributes to Neuroinflammation in a Rat model of Surgical Brain Injury](#). *The Journal of Neuroscience*, **35**(29): 10390–10401 (2015)
•Rat Brain Intracerebroventricular administration (rat)
14. Hidemitsu Nakajima *et al.* [Nuclear-translocated Glycerolaldehyde-3-phosphate Dehydrogenase Promotes Poly\(ADP-ribose\) Polymerase Activation during Oxidative/Nitrosative Stress in Stroke](#). *The Journal of Biological Chemistry*, Vol. 290 No. 23 (14493–14503)(2015)
J. Leukoc. Biology **91**, 599–607 (2012)
•Rat brain—intracerebroventricular injection]monocytic cells. (monocytes)

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