

Delivery mode	DNA, oligonucleotides and plasmid-based shRNA	siRNA and RNA
Systemic injection (IV)	DNA	siRNA
	Stellari <i>et al.</i> , (2016) <i>J Transl Med</i> 14(1) :226	Xiao <i>et al.</i> , (2016) <i>Nat Med</i> 22(8):906-14
	He <i>et al.</i> , (2016) <i>PLoS Pathog</i> 12(7) :e1005743	Kim <i>et al.</i> , (2016) <i>Br J Pharmacol</i> 173(6) : 1045-57
	Elias <i>et al.</i> , (2016) <i>Sci Rep</i> 6 :24971	Kang <i>et al.</i> , (2016) <i>Biochim Biophys Acta</i> 1861 :1025-35
	Stellari <i>et al.</i> , (2015) <i>J Transl Med</i> 13, 251	Lee <i>et al.</i> , (2015) <i>Nat Commun</i> 6 :10154
	Ronald <i>et al.</i> , (2015) <i>Proc Natl Acad Sci USA</i> 112. 3068-73	Zhang <i>et al.</i> , (2015) <i>Int J Clin Exp Med</i> 8, 15146-54.
	Li <i>et al.</i> , (2015) <i>Antiviral Res</i> 123 :50-61	Frye <i>et al.</i> , (2015) <i>J Exp Med</i> 212. 2267-87
	Bhatnagar <i>et al.</i> , (2014) <i>Cancer Res</i> 74(20), 5772.	Keaney <i>et al.</i> , (2015) <i>Sci Adv</i> 1(8):e1500472
	Dalli <i>et al.</i> , (2014) <i>EMBO Mol Med</i> 6(1), 27.	Chang <i>et al.</i> , (2014) <i>Hepatology</i> 60(4), 1251.
	Rodriguez <i>et al.</i> , (2013) <i>Biochem Pharmacol</i> 86, 1541.	Kim <i>et al.</i> , (2014) <i>J Biol Chem</i> 189(39), 27065.
	Osorio <i>et al.</i> , (2013) <i>Cell Commun Signal</i> 11, 19.	Kim <i>et al.</i> , (2014) <i>FEBS J</i> doi :10.1111.
	Stefanov <i>et al.</i> , (2013) <i>PLoS Genetics</i> 8, e1003203	Paneni <i>et al.</i> , (2014) <i>Atherosclerosis</i> 136(2), 426.
	Aich <i>et al.</i> , (2012) <i>Nat Commun</i> 3, 877	Zhou <i>et al.</i> , (2014) <i>Nat Commun</i> 5, 3619.
	Stellari <i>et al.</i> , (2012) <i>PLoS ONE</i> 7, e3971	Ellermeier <i>et al.</i> , (2013) <i>Cancer Res</i> 73(6), 1709.
	Wong <i>et al.</i> , (2011) <i>J Control Release</i> 150, 298	Liu <i>et al.</i> , (2013) <i>J Cell Biol</i> 201, 863.
	Ansaldi <i>et al.</i> , (2011) <i>PLoS ONE</i> 6, e2509	Shin <i>et al.</i> , (2013) <i>J Hypertens</i> 31, 1575.
	Ochoa-Callejero <i>et al.</i> , (2010) <i>Vaccine</i> 28, 5323	Kim <i>et al.</i> , (2013) <i>Cell Signal</i> 25, 2348.
	Bhang <i>et al.</i> , (2011) <i>Nat Med</i> 17, 123	Jin <i>et al.</i> , (2013) <i>Cell Reports</i> 3, 1-13
	Lin <i>et al.</i> , (2011) <i>Biomaterials</i> 32, 1978	Xia <i>et al.</i> , (2012) <i>J Viral Hepat</i> 19, 509
	Wong <i>et al.</i> , (2011) <i>Gene Ther</i> 18, 82	Campbell <i>et al.</i> , (2012) <i>Nat Commun</i> 3, 849
	Rodrigo-Garzon <i>et al.</i> , (2010) <i>Cancer Gene Ther</i> 17, 20	Mostafa Anower <i>et al.</i> , (2012) <i>Eur J Pharmacol</i> 688, 76-83
	Klucar <i>et al.</i> , (2009) <i>Vaccine</i> 27, 1816	Kim <i>et al.</i> , (2012) <i>Free Radic Biol Med</i> 53, 629-4
	Dallabrida <i>et al.</i> , (2008) <i>Faseb J</i> 22, 3010	Jin <i>et al.</i> , (2012) <i>J Dermatol Sci</i> 67, 88-94
	Nishikawa <i>et al.</i> , (2008) <i>Hum Gene Ther</i> 19, 1009	Paneni <i>et al.</i> , (2012) <i>Circ Res</i> 111, 278-8.
	Bonnet <i>et al.</i> , (2008) <i>Pharma Res</i> 25, 2972	Lin <i>et al.</i> , (2012) <i>J Virol</i> 86, 10359.
	Robbins <i>et al.</i> , (2008) <i>Hum Gene Ther</i> 19, 991	Ji <i>et al.</i> , (2012) <i>Genomics Inform</i> 10, 40-3.
Liu <i>et al.</i> , (2006) <i>Mol Ther</i> 13, 1006	Ebert <i>et al.</i> , (2011) <i>Gastroenterology</i> 141, 696	
Liu (2006) <i>Faseb J</i> 20, 2384	Gerster <i>et al.</i> , (2010) <i>Int J Radiat Oncol Biol Phys</i> 77, 253	
Ge <i>et al.</i> , (2004) <i>PNAS</i> 101, 8676	Ye <i>et al.</i> , (2010) <i>Methods Find Exp Clin Pharmacol</i> 32, 391	
Nakamura <i>et al.</i> , (2013) <i>Biomed Res Int</i> 2013, 92879.	Lee <i>et al.</i> , (2010) <i>J Inflamm (Lond)</i> 7, 31	
	Kim <i>et al.</i> , (2010) <i>Cardiovasc Res</i> 87, 119	

	<p>shRNA delivery Jiao <i>et al.</i>, (2015) <i>Nat Immunol</i> 16(3) :246-57 Andre <i>et al.</i>, (2015) <i>Mol Med Rep</i> 12(6) :8320-6 Wang <i>et al.</i>, (2011) <i>Arch Biochem Biophys</i> 508, 93 Paranjpe <i>et al.</i>, (2010) <i>Am J Pathol</i> 176, 2669 Williams <i>et al.</i>, (2010) <i>Am J Pathol</i> 176, 2732 Zeng <i>et al.</i>, (2010) <i>Microvasc Res</i> 80, 116</p> <p>Oligonucleotides delivery Takagi <i>et al.</i>, (2011) <i>Immunity</i> 35, 958</p> <p>DNA and siRNA codelivery Francis <i>et al.</i>, (2014) <i>Mol Ther</i> 22(9), 1643 Taylor <i>et al.</i>, (2012) <i>Mol Ther</i> 20, 1305 Ge <i>et al.</i>, (2004) <i>PNAS</i>. 101, 8676</p> <p>STICKY SIRNA™ Bonnet <i>et al.</i>, (2013) <i>J Control Release</i> 170, 183 Kedinger <i>et al.</i>, (2013) <i>BMC Cancer</i> 13, 338 Bonnet <i>et al.</i>, (2008) <i>Pharma Res</i> 25, 2972 Bolcato-Bellemin <i>et al.</i>, (2007) <i>PNAS</i> 104, 16050</p> <p>RNA Chen <i>et al.</i>, (2015) <i>Nucleic Acids Res.</i> 43(7):3857-69 Using in vivo-jetPEI-Gal Ranjan <i>et al.</i>, (2010) <i>Virology</i> 7, 102</p>	<p>Chalmin <i>et al.</i>, (2010) <i>J Clin Invest</i> 120, 457 Miyamoto <i>et al.</i>, (2010) <i>Arthritis Res Ther</i> 12, R87 Besch <i>et al.</i>, (2009) <i>J. Clin. Invest</i> 119, 2399 Filippi <i>et al.</i>, (2009) <i>J Clin Invest</i> 119, 1515 Poeck (2008) <i>Nature Med</i> 14 1256 Bonnet <i>et al.</i>, (2008) <i>Pharma Res</i> 25, 2972 Yang <i>et al.</i>, (2008), <i>Nature</i> 455, 1210 Lively <i>et al.</i>, (2008) <i>J Allergy Clin Immunol</i> 121, 88 Ito <i>et al.</i>, (2008), <i>Cancer Res</i> 68, 3214 Choi <i>et al.</i>, (2008) <i>J Biol Chem</i> 283, 20186 Wang <i>et al.</i>, (2008) <i>Hypertension</i> 52, 484 Song <i>et al.</i>, (2007) <i>Circulation</i> 116, 1585</p> <p>miRNA mimic, miRNA inhibitors, antagomiR Li <i>et al.</i>, (2016) <i>Nat Microbiol</i> 1(10) :16132 Zhao <i>et al.</i>, (2016) <i>Sci Rep</i> 6 :26611 Zhao <i>et al.</i>, (2015) <i>Biochem Pharmacol</i> 98, 602-13 Wang <i>et al.</i>, (2015) <i>J Pharmacol Exp Ther</i> 354, 131-41 Shi <i>et al.</i>, (2015) <i>Cancer Res</i> 75, 5309-17 Morishita <i>et al.</i>, (2015) <i>Int J Nanomedicine</i> 10, 3475-88 Guan <i>et al.</i>, (2015) <i>Int J Biol Sci.</i> 11(11) :1257-68 Wahlquist <i>et al.</i>, (2014) <i>Nature</i> 508(7497), 531</p> <p>Poly(I:C) delivery Asdonk <i>et al.</i>, (2016) <i>J Cell Mol Med</i> 20(9):1696-705 Besch <i>et al.</i>, (2009) <i>J. Clin. Invest</i> 119, 2399 Tormo <i>et al.</i>, (2009). <i>Cancer Cell</i> 16, 103</p> <p>5'pppRNA delivery Liu <i>et al.</i>, (2016) <i>J Virol</i> 90, 9406 Chiang <i>et al.</i>, (2015) <i>J Virol</i> 89, 8011</p>
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<p>Intraperitoneal injection (IP)</p>	<p>DNA delivery Hine <i>et al.</i>, (2011) <i>Mol Ther</i> Wirtz <i>et al.</i>, (2011) <i>Gastroenterology</i> 141, 1875 Lee <i>et al.</i>, (2010) <i>J Inflamm (Lond)</i> 7, 31 Kitamura <i>et al.</i>, (2011) <i>BBRC</i> 404, 599 Smitha <i>et al.</i>, (2010) <i>J Helminthol</i> 84, 149 Serba (2008) <i>Gut</i> 57, 344 Buckley <i>et al.</i>, (2008) <i>Hum Gene Ther</i> 19, 1050 Louis <i>et al.</i>, (2006) <i>Cancer Gene Ther</i> 13, 367 Caldas (2006) <i>Mol Cancer Ther</i> 5, 693</p> <p>shRNA delivery George and Tsutsumi (2007), <i>Gene Ther</i> 14, 890</p> <p>Oligonucleotides delivery Dabertrand <i>et al.</i>, (2010) <i>Eur J Pharmacol</i> 628, 36 Nickerson and Colledge (2004) <i>Gene Ther</i> 11, 1351</p> <p>STICKY SIRNA delivery Capulli <i>et al.</i>, (2015) <i>Mol Ther Nucleic Acids</i> 4:e248</p>	<p>siRNA delivery Albino <i>et al.</i>, (2016) <i>Cancer Res</i> 76,(12), 3629 Park <i>et al.</i>, (2015) <i>Gene Ther</i> 22, 325-32. Gerster <i>et al.</i>, (2010) <i>Int J Radiat Oncol Biol Phys</i> 77, 253 Feng <i>et al.</i>, (2011) <i>PLoS ONE</i> 6, e2365 Busser <i>et al.</i>, (2010) <i>Mol Ther</i> 18, 528 Cubillos-Ruiz <i>et al.</i>, (2009) <i>J. Clin. Invest</i> 119, 2231 Storci <i>et al.</i>, (2008) <i>J Pathol</i> 214, 25 Lefort <i>et al.</i> (2007) <i>Genes Dev</i> 21, 562-7.</p> <p>Poly(I:C) delivery Bhoopathi <i>et al.</i>, (2014) <i>Cancer Res</i> 74, 6224. Wu <i>et al.</i>, (2011) <i>Cancer Immunol Immunother</i> 60, 1085 Tormo <i>et al.</i>, (2009) <i>Cancer Cell</i> 16, 103</p> <p>miRNA and pre-miRNA delivery Veliceasa <i>et al.</i>, (2015) <i>Vasc Cell</i> 7. 6 Stickel <i>et al.</i>, (2014) <i>Blood</i> 124, 2586-95. Hsu <i>et al.</i>, (2014) <i>J Pathol</i> 232, 330. Nezami <i>et al.</i>, (2014) <i>Gastroenterology</i> 146(2), 473. Cubillos-Ruiz <i>et al.</i>, (2012) <i>Cancer Res</i> 72, 1683.</p>
<p>Intratumoral Injection</p>	<p>DNA delivery Kitano <i>et al.</i>, (2016) <i>Onco Targets Ther</i> 9 :503-16 Gupta <i>et al.</i>, (2016) <i>Tumor Biol</i> 37(9) :12089 Gupta <i>et al.</i>, (2016) <i>Virus Res</i> 213:289-98 Zhong <i>et al.</i>, (2015) <i>J Biol Chem</i> 290:8876-87. Ronald <i>et al.</i>, (2015) <i>Proc Natl Acad Sci USA</i> 112. 3068-73 Rama <i>et al.</i>, (2015) <i>Int J Mol Sci</i> 16. 12601-15. Li <i>et al.</i>, (2015) <i>J Cancer Res Clin Oncol</i> 141. 1909-20. Hsieh <i>et al.</i>, (2015) <i>Mol Imaging Biol</i> 17(6):802-10 Ma <i>et al.</i>, (2013) <i>Mol Cancer Ther</i> 12, 286-9. Rodriguez <i>et al.</i>, (2013) <i>Biochem Pharmacol</i> 86, 1541.</p>	<p>siRNA delivery Hirahata <i>et al.</i>, (2016) <i>Cancer Med</i> 5(5):892 Chen <i>et al.</i>, (2014) <i>Br J Cancer</i> 110, 1014. Zhang <i>et al.</i>, (2014) <i>BMC Cancer</i> 14, 310. Kurioka <i>et al.</i>, (2014) <i>Sci Rep</i> 4, 6111. Wang <i>et al.</i>, (2014) <i>Apoptosis</i> 19, 643-5. Wang and Gartel (2011) <i>Oncotarget</i> 2, 1218 Zhang <i>et al.</i>, (2010) <i>Ann Surg Oncol</i> 16, 2617 Goodwin <i>et al.</i>, (2010) <i>Cancer Res</i> 70, 2932.</p>

	<p>Hine <i>et al.</i>, (2011) <i>Mol Ther</i> Amit <i>et al.</i>, (2011) <i>Int J Clin Exp Med</i> 4, 91 Amit and Hochberg (2010) <i>J Transl Med</i> 8, 134 Scaiewicz <i>et al.</i>, (2010) <i>J Oncol</i> 2010, 17817 Kang <i>et al.</i>, (2009) <i>BMC Cancer</i> 9, 126 Stone <i>et al.</i>, (2009) <i>PLoS One</i> 4, e7334 Garg <i>et al.</i>, (2009) <i>Cancer Gene Therapy</i> 17, 155 Prados <i>et al.</i>, (2009) <i>Exp Dermatol</i> 19, 363 Kang <i>et al.</i>, (2009) <i>BMC Cancer</i> 9, 126 Ortiz <i>et al.</i>, (2009) <i>J Mol Med</i> 87, 899 Jeudy <i>et al.</i>, (2008) <i>Cancer Gene Ther</i> 15, 742 Chumakova <i>et al.</i>, (2008) <i>Cancer Lett</i> 261, 215 Hua (2007) <i>Cancer Gene Ther</i> 14, 815 Lavergne <i>et al.</i>, (2004) <i>J Immunol</i> 173, 3755 Ohlfest <i>et al.</i>, (2004) <i>Mol Ther</i> 10, 260 Lavergne <i>et al.</i>, (2003) <i>Cancer Res</i> 63, 7468 Kitano <i>et al.</i>, (2012) <i>J Gene Med</i> 14, 642-5.</p> <p>Dbait delivery Berthault <i>et al.</i>, (2011) <i>Cancer Gene Ther</i> 18, 695 Quanz <i>et al.</i>, (2009) <i>Clin Cancer Res</i> 15, 308</p> <p>LNA delivery Cogoi <i>et al.</i>, (2013) <i>Nucliec Acids res</i> 41(7):4049</p>	<p>miRNA and pre-miRNA delivery An <i>et al.</i>, (2016) <i>Biochim Biophys Acta</i> 1862(10), 1926 Wang <i>et al.</i>, (2015) <i>J Pharmacol Exp Ther</i> 354, 131-41 Kong <i>et al.</i>, (2014) <i>Cancer Res</i> 74, 3764. Hsu <i>et al.</i>, (2014) <i>J Pathol</i> 232, 330. Song <i>et al.</i>, (2014) <i>Clin Cancer Res</i> 20, 878-8 Gabriely <i>et al.</i>, (2011) <i>Cancer Res</i> 71(10), 3563-72</p> <p>DNA and siRNA codelivery Taylor <i>et al.</i>, (2012) <i>Mol Ther</i> 20, 1305</p> <p>shRNA delivery Hu <i>et al.</i>, (2014) <i>Int J Clin Exp Pathol</i> 7, 2143. Zhang <i>et al.</i>, (2009) <i>Ann Surg Onc</i> 16, 2617 Niola <i>et al.</i>, (2006) <i>Cancer Biol Ther</i> 5, 174 Hua <i>et al.</i>, (2007) <i>Cancer Gene Ther</i> 14, 815</p> <p>Oligonucleotides delivery Liu <i>et al.</i>, (2010) <i>J Exp Clin Cancer Res</i> 29, 63 Canello <i>et al.</i>, (2014) <i>PLoS One</i> 9(12) :e113854</p> <p>Poly(I:C) delivery Duewell <i>et al.</i>, (2014) <i>Cell Death Differ</i> 21, 1825. Bhoopathi <i>et al.</i>, (2014) <i>Cancer Res</i> 74, 6224.</p>
<p>Intratracheal delivery</p>	<p>DNA delivery Bivas-Benita <i>et al.</i>, (2013) <i>Mucosal Immunol</i> 6(1), 156 (aerosol) Bivas-Benita <i>et al.</i>, (2010) <i>J Virol</i> 84, 5764 (aerosol) Hu <i>et al.</i>, (2010) <i>J Gene Med</i> 12, 276 Gregory <i>et al.</i>, (2009) <i>Vaccine</i> 27, 5299 Tian <i>et al.</i>, (2008) <i>J Asthma</i> 45, 715 Liu <i>et al.</i>, (2006) <i>Faseb J</i> 20, 2384 Liu (2006) <i>Am J Respir Crit Care Med</i> 173, 566</p>	<p>miRNA delivery Chen <i>et al.</i>, (2016) <i>J Cell Physiol</i> 231(10) :2236</p>

Intranasal delivery	DNA delivery Buckley <i>et al.</i> , (2008) <i>Hum Gene Ther</i> 19, 1050	siRNA delivery Long <i>et al.</i> , (2015) <i>Respir Res</i> 16, 11. Aguilera-Aguirre <i>et al.</i> , (2014) <i>J Immunol</i> 193, 4643. Liu <i>et al.</i> , (2014) <i>J Virol</i> 88, 4229.
Intrabiliary injection	DNA delivery Li <i>et al.</i> , (2014) <i>J Clin Invest</i> 124, 3241.	
Intramuscular injection	DNA delivery Yu <i>et al.</i> , (2016) <i>Vaccine</i> 34(37):4399 Tseng <i>et al.</i> , (2015) <i>J Vasc Surg</i> Bivas-Benita <i>et al.</i> , (2010) <i>J Virol</i> 84, 5764	5'PPP-RNA Beljanski <i>et al.</i> , (2015) <i>J Virol</i> 89, 10612 miRNA delivery Hsu <i>et al.</i> , (2016) <i>J Cell Mol Med</i> 21(3):519 Veliceasa <i>et al.</i> , (2015) <i>Vasc Cell</i> 7, 6
Sub-cutaneous (SC) and subepidermal (SE)	DNA delivery Zhang <i>et al.</i> , (2014) <i>Free Radic Biol Med</i> 69, 96-10. (SC) Oh <i>et al.</i> , (2013) <i>Eur J Nucl Med Mol Imaging</i> 40, 1607 (SC) Cid-Arregui <i>et al.</i> , (2003) <i>J Virol</i> 77, 4928 (SC)	siRNA delivery Acosta <i>et al.</i> , (2014) <i>J Neurosci</i> 34, 1494. (intradermal) Murase <i>et al.</i> , (2009) <i>J Biol Chem</i> 284, 4343 (SE) Oligonucleotide delivery Matsumoto <i>et al.</i> , (2015) <i>Nature Commun</i> 6, 6280 (peritumoral) miRNA delivery Giroud <i>et al.</i> , (2016) <i>Sci Rep</i> 6 :28613
Intra-articular injection	siRNA Kramer <i>et al.</i> , (2010). <i>Arthritis Rheum</i> 62, 3109.	Poly(I:C) delivery Magnusson <i>et al.</i> , (2006) <i>Arthritis Rheum</i> 54, 148 Zare <i>et al.</i> , (2006) <i>J Leukoc Biol</i> 79, 482
Topical application	Topical DNA delivery to the skin Cabrera <i>et al.</i> , (2015), <i>PLoS Pathog</i> 11(1):e1004571 Lorincz <i>et al.</i> , (2011) <i>Nanomedicine*</i> using vivo-jetPEI®-Man Angelos <i>et al.</i> , (2011). <i>Arch Facial Plast Surg</i> 13, 185 McKnight <i>et al.</i> , (2008), <i>Ortolaryn Head Neck Surg</i> 139, 2459 Liszewicz <i>et al.</i> , (2005) <i>J Invest Dermatol.</i> 124, 160 using vivo-jetPEI®-Man Liszewicz <i>et al.</i> , (2005) <i>Aids</i> 19, 35 using vivo-jetPEI®-Man	Topical siRNA delivery to blood vessels Kudo <i>et al.</i> , (2007) <i>Arterioscler Thromb Vasc Biol</i> 27, 1562

	Liszewicz <i>et al.</i> , (2006) <i>Curr Drug Delivery</i> 3, 83 using vivo-jetPEI®-Man	
Intramedullar injection	<p>DNA delivery Zhu <i>et al.</i>, (2012). <i>Biochim Biophys Acta</i> 1822, 936-4 (Intramedullar) Wang <i>et al.</i>, (2010) <i>Hypertension</i> 55, 1129-1136 (Intramedullar)</p> <p>shRNA delivery West <i>et al.</i>, (2014) <i>Exp Physiol</i> 99, 816-2. (injection into renal artery) Wang <i>et al.</i>, (2014) <i>Am J Physiol Renal Physiol</i> 306, F1236. (injection into kidney) Zhu <i>et al.</i>, (2014) <i>Am J Hypertens</i> 27, 107-1. (Infusion into the renal medulla)</p>	<p>siRNA delivery Li <i>et al.</i>, (2012) <i>Ren Fail</i> 34(10), 1288 (injection into renal capsule)</p>
Intracardiac injection	<p>mRNA delivery Huang <i>et al.</i>, (2015) <i>Mol Pharm</i> 12(3):991-6</p>	<p>siRNA delivery Pei <i>et al.</i>, (2016) <i>Free Radic Biol Med</i> 97:408-17 Pei <i>et al.</i>, (2015) <i>Free Radic Biol Med</i> 82, 114-21 Cilenti <i>et al.</i>, (2011) <i>J Mol Cell Cardiol</i> 50, 652</p> <p>miRNA delivery Du <i>et al.</i>, (2016) <i>Free Radic Biol Med</i> 96 :406-17 Veliceasa <i>et al.</i>, (2015) <i>Vasc Cell</i> 7. 6</p>
Intrathecal injection	<p>shRNA delivery Cheng <i>et al.</i>, (2015) <i>Pain</i> 156(11):2295-309</p>	<p>siRNA delivery Xie <i>et al.</i>, (2015) <i>Neuroscience</i> 291. 317-30 Barbosa <i>et al.</i>, (2015) <i>Mol Pain</i> 11 :60 Jin <i>et al.</i>, (2014) <i>J Neurosci Res</i> 92, 1690. Kiguchi <i>et al.</i>, (2010). <i>Pain</i> 149, 305 (perineural injection) Patte-Mensah <i>et al.</i>, (2010) <i>Pain</i> 150, 522 (paravertebral injection) Liu <i>et al.</i>, (2010) <i>Brain Res</i> 1346, 213 Lan <i>et al.</i>, (2010) <i>Mol Pain</i> 6, 2 Tulleuda <i>et al.</i>, (2011) <i>Mol Pain</i> 7, 30 Xie <i>et al.</i>, (2012) <i>Neurosci Lett</i> 515, 61-5</p>

		Kramer <i>et al.</i> , (2013). <i>Neuroscience</i> 245, 1-11 (into Trigeminal Ganglia) Xie <i>et al.</i> , (2013). <i>Pain</i> 154, 1170. (injection into Dorsal Root Ganglion)
Intracerebral injection	<p>DNA delivery Ran <i>et al.</i>, (2015) <i>Neural Regen Res</i> 10, 1258-64. Soroceanu <i>et al.</i>, (2015) <i>Cancer Res</i> 75, 3065-76. Zuckermann <i>et al.</i>, (2015) <i>Nature Commun</i> 6, 7391. Kosaka <i>et al.</i>, (2014) <i>Cancer Immunol Immunother</i> 63, 847-5. Oh <i>et al.</i>, (2013) <i>Eur J Nucl Med Mol Imaging</i> 40, 1607 Lopez-Juarez <i>et al.</i>, (2012) <i>Cell Stem Cell</i> 10, 531-4 Schaffer <i>et al.</i>, (2010) <i>Brain Res</i> 1362, 32 Uchida <i>et al.</i>, (2010) <i>J Neurosci</i> 30, 15007 Wiesner <i>et al.</i>, (2009) <i>Cancer Res</i> 69, 431 Jouvert <i>et al.</i>, (2004) <i>J Neurosci.</i> 24, 10716 Wu <i>et al.</i>, (2004) <i>Brain Res.</i> 1008, 284</p> <p>shRNA delivery Cruz <i>et al.</i>, (2015) <i>J Neurosci</i> 35(36) :12394-403 Sedbazar <i>et al.</i>, (2013) <i>Biochem Biophys Res Commun</i> 434, 434 Karatas <i>et al.</i>, (2013) <i>Science</i> 339, 1092 Hassani <i>et al.</i>, (2007) <i>Nucl Acid Res</i> 35, e65</p> <p>Oligonucleotides delivery Teplyuk <i>et al.</i>, (2016) <i>EMBO Mol Med</i> 8(3) :268 De Rivero Vaccari <i>et al.</i>, (2015), <i>J Neurochem</i> Zhang <i>et al.</i>, (2009), <i>J Neurosci</i> 29, 13823</p>	<p>siRNA delivery Karatas <i>et al.</i>, (2013) <i>Science</i> 339, 1092 Using jetSI® 10 mM Smith <i>et al.</i>, (2012) <i>J Neurosci Methods</i> 203, 398 Using jetSI® 10 mM Chauvier <i>et al.</i>, (2011) <i>Cell Death Dis</i> 2, e203 Using jetSI® 10 mM Carlsson <i>et al.</i>, (2011) <i>Ann Neurol</i> 70, 781 Using jetSI® 10 mM Tai <i>et al.</i>, (2011) <i>Embo J</i> 30, 205 Using jetSI® 10 mM Badaut <i>et al.</i>, (2011) <i>J Cereb Blood Flow Metab</i> 31, 819 Using INTERFERin® Batassa <i>et al.</i>, (2010) <i>Neurosci Lett</i> 471, 188 Using <i>in vivo</i>-jetPEI® Cakir <i>et al.</i>, (2009) <i>PLoS One</i> 4, e8322 Using jetSI® 10 mM Dominska <i>et al.</i>, (2010) <i>J Cell Sci</i> 123, 1183 Using jetSI® 10 mM Cheret <i>et al.</i>, (2008) <i>J Neurosci</i> 28, 12039 Using jetSI® 10 mM Froidevaux <i>et al.</i>, (2006) <i>EMBO Rep.</i> 7, 1035 Using jetSI® 10 mM Guissouma <i>et al.</i>, (2006) <i>Neurosci Lett</i>, 406, 240 Using jetSI® 10 mM Kumar <i>et al.</i>, (2006) <i>PLoS Med</i> 3, e96 0505 Using jetSI™ 10 mM Hassani <i>et al.</i>, (2005). <i>J Gene Med</i> 7, 198 Using jetSI™ 10 mM Bender <i>et al.</i>, (2013). <i>Neurobiol Dis</i> 54, 297 Using jetSI™ 10 mM Li <i>et al.</i>, (2012). <i>Addict Biol</i> 17, 392-4. Using jetSI™ 10 mM Zhang <i>et al.</i>, (2011). <i>Am J Phys Heart Circ Phys</i> 302. Using jetSI™ 10mM Griggs <i>et al.</i>,(2013). <i>J Neurosci</i> 33, 1734. Using jetSI™ 10mM</p> <p>miRNA delivery Smith <i>et al.</i>, (2015), <i>Hum Mol Genet</i> 24, 6721-35 (intraventricular)</p>
Local injection	<p>DNA delivery Yamada <i>et al.</i>, (2015) <i>Hepatology</i> 61.1627-42 (injection into gallbladder) Buscail <i>et al.</i>, (2015) <i>Mol Ther</i> 23. 779-89 (injection into pancreas) Xia <i>et al.</i>, (2013) <i>J Pediatr Surg</i> 48, 2140 (microinjection into seminiferous tubules)</p>	<p>siRNA delivery Li <i>et al.</i>, (2016) <i>Endocrinology</i> 157(7):2894 (injection into testis) Gao <i>et al.</i>, (2016) <i>Sci Rep</i> 6 :28589 (injection into testis) Chen <i>et al.</i>, (2016) <i>Endocrinology</i> 157(5):2140-59 (injection into testis) Zheng <i>et al.</i>, (2015) <i>Bone</i> 83. 190-196. (medullar injection into bone) Ma <i>et al.</i>, (2015) <i>Sci Rep</i> 5. 8894. (injection into testis) Arnandis <i>et al.</i>, (2014) <i>Biochem J</i> 459, 355-6. (injection into inguinal)</p>

Technical Note

Publications on *in vivo* delivery of nucleic acid with Polyplus reagents using the most common administration routes

Reagent used: *in vivo*-jetPEI®, unless specified

	<p>Yuan <i>et al.</i>, (2013) <i>PLoS ONE</i> 8, e6071 (intracorneal injection) Dall’Era <i>et al.</i> (2008) <i>Int J Impot Res</i> 20(3), 307 (injection into corpus cavernosum) shRNA delivery Li <i>et al.</i>, (2015) <i>Cell Physiol Biochem</i> 37(3) :911-20. (intraovarian injection) Rotgers <i>et al.</i>, (2014) <i>Cell Death Dis</i> 5, e1274. (injection into rete testis) Zhang <i>et al.</i>, (2012) <i>Cell Rep</i> 2(5), 1272 (intravitreal injection) Liao and Yau (2007) <i>Biotechniques</i> 42, 285 (intravitreal injection)</p>	<p>mammary gland Kramer <i>et al.</i>, (2014) <i>Neuroscience</i> 278, 144-5. (infusion into trigeminal ganglion) antimiR delivery Khan <i>et al.</i>, (2013) <i>Eur J Oral Sci</i> 121. 303-12 (injection into lingual side of the first right mandibular molar area)</p>
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