
Bibliography of Selected Publications Describing TUSC2/FUS1 Tumor Suppressor, Oncoprex™ (Intravenous TUSC2 Nanoparticle Therapy) and Related Technologies

1. Schaake EE, Kappers I, Codrington HE, Valdez Olmos RA, Teertstra HJ, van Pel R, Burgers JA, van Tinteren H, Klomp HM. [Tumor response and toxicity of neoadjuvant erlotinib in patients with early-stage non-small cell lung cancer](#). J Clin Oncol, August 2012 30(22), 2731-2738.
2. Lu C, Stewart DJ, Lee JJ, Ji L, Ramesh R, Jayachandran G, Nunez MI, Wistuba II, Erasmus JJ, Hicks ME, Grimm EA, Reuben JM, Baladandayuthapani V, Templeton NS, McMannis JD, Roth JA. [Phase I clinical trial of systemically administered TUSC2 \(FUS1\)-nanoparticles mediating functional gene transfer in humans](#). PLoS ONE, April 2012 7(4), e34833. Doi:10.1371/journal.pone.0034833.
3. Meng J, Lara-Guerra H, Ji L, Roth JA. [Synergistic antitumor activity of AKT inhibitor MK2206 and FUS1 nanoparticles in LKB1 mutant NSCLC](#). AACR Annual Meeting, Chicago IL, April 10, 2012 (#870), 4/2012.
4. Lin J, Xu K, Gitanjali J, Roth JA, Ji L. [Regulation of tumor suppressor gene FUS1 expression by the untranslated regions of mRNA in human lung cancer cells](#). Biochem Biophys Res Commun 2011 Jul 1;410(2):235-41. Epub 2011 May 27.
5. Edfeldt K, Björklund P, Åkerström G, Westin G, Hellman P, Stålberg P. [Different gene expression profiles in metastasizing midgut carcinoid tumors](#). Endocr Relat Cancer 2011 Jul 11;18(4):479-89. Print 2011.
6. Lu C, Stewart DJ, Ji L, Ramesh R, Jayachandran G, Nunez MI, Wistuba II, Erasmus JJ, Lee JJ, McMannis JD, Templeton NS, Roth JA. [Systemic gene therapy with tumor suppressor TUSC2/FUS1 nanoparticles for recurrent/metastatic lung cancer](#). AACR Annual Meeting, Orlando, FL, April 6, 2011 (#5391), 4/2011.
7. Shanker M, Jin J, Branch CD, Miyamoto S, Grimm EA, Roth JA, Ramesh R. [Tumor suppressor gene-based nanotherapy: from test tube to the clinic](#). J Drug Deliv 2011; 2011:465845.
8. Li G, Kawashima H, Ji L, Ogose A, Ariizumi T, Umezu H, Xu Y, Hotta T, Endo N. [Frequent absence of tumor suppressor FUS1 protein expression in human bone and soft tissue sarcomas](#). Anticancer Res 2011 Jan;31(1):11-21.
9. Jayachandran G, Ueda K, Wang B, Roth JA, Ji L. [NPRL2 sensitizes human non-small cell lung cancer \(NSCLC\) cells to cisplatin treatment by regulating key components in the DNA repair pathway](#). PLoS ONE, August 2010 5(8), e11994:1-12.
10. Lu C, Stewart DJ, Ji L, Ramesh R, Jayachandran G, Erasmus JJ, Lee J, Templeton NS, McMannis JD, Roth JA. [Systemic gene therapy with tumor suppressor FUS1-nanoparticles for recurrent/metastatic lung cancer](#). J Clin Oncol 28(Supplement):558s (#7582), 6/2010.
11. Sakai R, Xu K, Fang B, Roth JA, Ji L. [Overcoming drug resistance to EGFR-tyrosine kinase inhibitors by FUS1 or FHIT-gene therapy in human lung cancer](#). AACR Annual Meeting,

Washington, D.C., April 20, 2010 (#3634), 4/2010.

12. Liu Q, Wu G, Xu K, Roth JA, Ji L. [FUS1-mediated tumor suppression by inhibiting PDGF/PDGFR signaling pathway in human lung cancer](#). AACR Annual Meeting, Washington, D.C., April 18, 2010 (#706), 4/2010.
13. Baker L. [Found in translation: SPORE grants turn into hope for patients](#). Conquest (publication of The University of Texas MD Anderson Cancer Center, Houston) Spring 2010:16-19.
14. Ivanova AV, Ivanov SV, Prudkin L, Nonaka D, Liu Z, Tsao A, Wistuba I, Roth J, Pass HI. [Mechanisms of FUS1/TUSC2 deficiency in mesothelioma and its tumorigenic transcriptional effects](#). Mol Cancer 8:91, 10/2009.
15. Du L, Schageman JJ, Subauste MC, Saber B, Hammond SM, Prudkin L, Wistuba II, Ji L, Roth JA, Minna JD, Pertsemlidis A. [miR-93, miR-98, and miR-197 regulate expression of tumor suppressor gene FUS1](#). Mol Cancer Res 2009 Aug;7(8):1234-43. Epub 2009 Aug 11.
16. Templeton NS. [Nonviral delivery for genomic therapy of cancer](#). World J Surg 2009; 33:685-697. Epub 2008 Nov 21.
17. Engelman JA, Janne PA. [Mechanisms of acquired resistance to epidermal growth factor receptor tyrosine kinase inhibitors in non-small cell lung cancer](#). Clin Cancer Res 14:2895, 5/2008.
18. Lin J, Arlinghaus R. [Activated c-Abl tyrosine kinase in malignant solid tumors](#). Oncogene 2008 Jul 24;27(32):4385-91. Epub 2008 Apr 7.
19. Ji L, Roth JA. [Tumor suppressor FUS1 signaling pathway](#). J Thorac Oncol 3(4):327-30, 4/2008.
20. Prudkin L, Behrens C, Liu DD, Zhou X, Ozburn NC, Bekele BN, Minna JD, Moran C, Roth JA, Ji L, Wistuba II. [Loss and reduction of TUSC2 protein expression is a frequent phenomenon in the pathogenesis of lung cancer](#). Clin Cancer Res 14(1):41-47, 1/2008.
21. Deng WG, Wu G, Ueda K, Xu K, Roth JA, Ji L. [Enhancement of antitumor activity of cisplatin in human lung cancer cells by tumor suppressor FUS1](#). Cancer Gene Ther 15(1):29-39, 1/2008. Epub 2007 Sep 7.
22. Lee DY, Deng Z, Wang CH, Yang BB. [MicroRNA-378 promotes cell survival, tumor growth, and angiogenesis by targeting SuFu and Fus-1 expression](#). Proc Natl Acad Sci USA 2007;104:20350-20355, 12/2007.
23. Hesson LB, Cooper WN, Latif F. [Evaluation of the 3p21.3 tumour-suppressor gene cluster](#). Oncogene 2007 Nov 15;26(52):7283-301. Epub 2007 May 28.
24. Lin J, Sun T, Ji L, Deng W, Roth J, Minna J, Arlinghaus R. [Oncogenic activation of c-Abl in non-small cell lung cancer cells lacking FUS1 expression: inhibition of c-Abl by the tumor suppressor gene product Fus1](#). Oncogene 26(49):6989-96, 10/2007. Epub 2007 May 7.
25. Ivanova AV, Ivanov SV, Pascal V, Lumsden JM, Ward JM, Morris N, Tessarolo L, Anderson SK, Lerman MI. [Autoimmunity, spontaneous tumorigenesis, and IL-15 insufficiency in mice with a targeted disruption of the tumour suppressor gene *Fus 1*](#). J Pathol 211:591-601. Epub 22 Feb 2007.
26. Deng WG, Kawashima H, Wu G, Jayachandran G, Xu K, Minna JD, Roth JA, Ji L. [Synergistic tumor suppression by coexpression of FUS1 and p53 is associated with down-regulation of murine double minute-2 and activation of the apoptotic protease-activating factor 1-dependent apoptotic pathway in human non-small cell lung cancer cells](#). Cancer Res 67(2):709-17, 1/2007.

27. Ueda K, Kawashima H, Ohtani S, Deng WG, Ravoori M, Bankson J, Gao B, Girard L, Minna JD, Roth JA, Kundra V, Ji L. [The 3p21.3 tumor suppressor NPRL2 plays an important role in cisplatin-induced resistance in human non-small-cell lung cancer cells.](#) *Cancer Res* 66(19):9682-90, 10/2006.
28. Ji L, Minna JD, Roth JA. [3p21.3 tumor suppressor cluster: prospects for translational applications.](#) *Future Oncol* 2005 Feb;1(1):79-92.
29. Ito I, Ji L, Tanaka F, Saito Y, Gopalan B, Branch CD, Xu K, Atkinson EN, Bekele BN, Stephens LC, Minna JD, Roth JA, Ramesh R. [Liposomal vector mediated delivery of the 3p FUS1 gene demonstrates potent antitumor activity against human lung cancer in vivo.](#) *Cancer Gene Ther* 11(11):733-9, 11/2004.
30. Senchenko VN, Liu J, Loginov W, Bazov I, Angeloni D, Seryogin Y, Ermilova V, Kazubskaya T, Garkavtseva R, Zabarovska VI, Kashuba VI, Kisselev LL, Minna JD, Lerman MI, Klein G, Braga EA, Zabarovsky ER. [Discovery of frequent homozygous deletions in chromosome 3p21.3 LUCA and AP20 regions in renal, lung and breast carcinomas.](#) *Oncogene* 23, 5719-5728, 6/2004.
31. Chow LS, Lo KW, Kwong J, To KF, Tsang KS, Lam CW, Dammann R, Huang DP. [RASSF1A is a target tumor suppressor from 3p21.3 in nasopharyngeal carcinoma.](#) *Int J Cancer* 2004 May 10;109(6):839-47.
32. Uno F, Sasaki J, Nishizaki M, Carboni G, Xu K, Atkinson EN, Kondo M, Minna JD, Roth JA, Ji L. [Myristoylation of the fus1 protein is required for tumor suppression in human lung cancer cells.](#) *Cancer Res* 64(9):2969-76, 5/2004.
33. Gopalan B, Ito I, Branch CD, Stephens C, Roth JA, Ramesh R. [Nanoparticle based systemic gene therapy for lung cancer: molecular mechanisms and strategies to suppress nanoparticle-mediated inflammatory response.](#) *Technol Cancer Res Treat* 3(6):647-57, 12/2004.
34. Ito I, Began G, Mohiuddin I, Saeki T, Saito Y, Branch CD, Vaporciyan A, Stephens LC, Yen N, Roth JA, Ramesh R. [Increased uptake of liposomal-DNA complexes by lung metastases following intravenous administration.](#) *Mol Ther* 7(3):409-18, 3/2003.
35. Ji L, Nishizaki M, Gao B, Burbee D, Kondo M, Kamibayashi C, Xu K, Yen N, Atkinson EN, Fang B, Lerman MI, Roth JA, Minna JD. [Expression of several genes in the human chromosome 3p21.3 homozygous deletion region by an adenovirus vector results in tumor suppressor activities in vitro and in vivo.](#) *Cancer Res* 62(9):2715-20, 5/2002.
36. Ramesh R, Saeki T, Templeton NS, Ji L, Stephens LC, Ito I, Wilson DR, Wu Z, Branch CD, Minna JD, Roth JA. [Successful treatment of primary and disseminated human lung cancers by systemic delivery of tumor suppressor genes using an improved liposome vector.](#) *Mol Ther* 3(3):337-50, 3/2001.
37. Templeton NS, Lasic DD, Frederik PM, Strey HH, Roberts DD, Pavlakis GN. [Improved DNA: liposome complexes for increased systemic delivery and gene expression.](#) *Nature Biotech* 15:647-652, 7/1997.