

参考文献

- [1] Fire A, Xu S, Montgomery K, et al. Potent and specific genetic interference by double stranded RNA in *Caenorhabditis elegans* [J]. *Nature*, 1998, 391(6669): 806-811.
- [2] Montgomery MK, Xu S, Fire A. RNA as a target of double-stranded RNA-mediated genetic interference in *Caenorhabditis elegans* [J]. *Proc Natl Acad Sci USA*, 1998, 95(26): 15502-15507.
- [3] Dykxhoorn DM, Lieberman J. Knocking down disease with siRNAs [J]. *Cell*, 2006, 126(2): 231-235.
- [4] Soutschek J, Akinc A, Bramlage B, et al. Therapeutic silencing of an endogenous gene by systemic administration of modified siRNAs [J]. *Nature*, 2004, 432(7014): 173-178.
- [5] Chen CC, Chang CM, Sun CP, et al. Use of RNA interference to modulate liver adenoma development in a murine model transgenic for hepatitis B virus [J]. *Gene Ther*, 2012, 19(1): 25-33.
- [6] Xia H, Mao Q, Eliason SL, et al. RNAi suppresses polyglutamine-induced neurodegeneration in a model of spinocerebellar ataxia [J]. *Nat Med*, 2004, 10(8): 816-820.
- [7] Yang WQ, Zhang Y. RNAi-mediated gene silencing in cancer therapy [J]. *Expert Opin Biol Ther*, 2012, 12(11): 1495-1504.
- [8] Dews M, Homayouni A, Yu D, et al. Augmentation of tumor angiogenesis by a Myc-activated microRNA cluster [J]. *Nat Genet*, 2006, 38(9): 1060-1065.
- [9] Valastyan S, Reinhardt F, Benaich N, et al. A pleiotropically acting microRNA, miR-31, inhibits breast cancer metastasis [J]. *Cell*, 2009, 137(6): 1032-1046.
- [10] Tavazoie SF, Alarcon C, Oskarsson T, et al. Endogenous human microRNAs that suppress breast cancer metastasis [J]. *Nature*, 2008, 451(7175): 147-152.
- [11] Calin GA, Ferracin M, Cimmino A, et al. A MicroRNA signature associated with prognosis and progression in chronic lymphocytic leukemia [J]. *N Engl J Med*, 2005, 353(17): 1793-1801.
- [12] Tomimaru Y, Eguchi H, Nagano H, et al. MicroRNA-21 induces resistance to the anti-tumour effect of interferon α /5-fluorouracil in hepatocellular carcinoma cells [J]. *Br J Cancer*, 2010, 103(10): 1617-1626.
- [13] Park JK, Kogure T, Nuovo GJ, et al. miR-221 silencing blocks hepatocellular carcinoma and promotes survival [J]. *Cancer Res*, 2011, 71(24): 7608-7616.
- [14] Callegari E, Elamin BK, Giannone F, et al. Liver tumorigenicity promoted by microRNA-221 in a mouse transgenic model [J]. *Hepatology*, 2012, 56(3): 1025-1033.
- [15] Liu P, Qi M, Ma C, et al. Let7a inhibits the growth of endometrial carcinoma cells by targeting Aurora-B [J]. *FEBS Lett*, 2013, 587(16): 2523-2529.
- [16] Zhang H, Luo XQ, Feng DD, et al. Upregulation of microRNA-125b contributes to leukemogenesis and increases drug resistance in pediatric acute promyelocytic leukemia [J]. *Mol Cancer*, 2011, 10: 108.
- [17] Rai D, Kim SW, McKeller MR, et al. Targeting of SMAD5 links microRNA-155 to the TGF-beta pathway and lymphomagenesis [J]. *Proc Natl Acad Sci USA*, 2010, 107(7): 3111-3116.
- [18] Zhang YP, Kong QH, Huang Y, et al. Inhibition of c-FLIP by RNAi Enhances Sensitivity of the Human Osteogenic Sarcoma Cell Line U2OS to TRAIL-Induced Apoptosis [J]. *Asian Pac J-Cancer Prev*, 2015, 16(6): 2251-2256.
- [19] Zhang Y, Chen L, Yang S, Fang D. E2F1: a potential negative regulator of hTERT transcription in normal cells upon activation of oncogenic c-Myc [J]. *Med Sci Monit*, 2012, 18(1): RA12-15.
- [20] Egger G, Liang G, Aparicio A, Jones PA. Epigenetics in human disease and prospects for epigenetic therapy [J]. *Nature*, 2004, 429(6990): 457-463.
- [21] Ferreira AC, Robaina MC, Rezende LM, et al. Histone deacetylase inhibitor prevents cell growth in Burkitt's lymphoma by regulating PI3K/Akt pathways and leads to upregulation of miR-143, miR-145, and miR-101 [J]. *Ann Hematol*, 2014, 93(6): 983-993.
- [22] Ørom UA, Derrien T, Beringer M, et al. Long noncoding RNAs with enhancer-like function in human cells [J]. *Cell*, 2010, 143(1): 46-58.
- [23] Spadaro PA, Flavell CR, Widagdo J, et al. Long noncoding RNA-Directed epigenetic regulation of gene expression is associated with anxiety-like behavior in mice [J]. *Biol Psychiatry*, 2015, pii: S0006-3223(15)00095-5.
- [24] Li CH, Chen Y. Targeting long non-coding RNAs in cancers: progress and prospects [J]. *Int J Biochem Cell Biol*, 2013, 45(8): 1895-1910.
- [25] Wapinski O, Chang HY. Long noncoding RNAs and human disease [J]. *Trends Cell Biol*, 2011, 21: 354-361.
- [26] Clark MB, Mattick JS. Long noncoding RNAs in cell biology [J]. *Semin Cell Dev Biol*, 2011, 22(4): 366-376.
- [27] Gibb EA, Brown CJ, Lam WL. The functional role of long non-coding RNA in human carcinomas [J]. *Mol Cancer*, 2011, 10: 38.
- [28] Isin M, Dalay N. LncRNAs and neoplasia [J]. *Clin Chim Acta*, 2015, 444: 280-288.
- [29] Lai MC, Yang Z, Zhou L, et al. Long non-coding RNA MALAT-1 overexpression predicts tumor recurrence of hepatocellular carcinoma after liver transplantation [J]. *Med Oncol*, 2012, 29(3): 1810-1816.
- [30] Schmidt LH, Spieker T, Koschmieder S, et al. The long noncoding MALAT-1 RNA indicates a poor prognosis in non-small cell lung cancer and induces migration and tumor growth [J]. *J Thorac Oncol*, 2011, 6(12): 1984-1992.
- [31] Tano K, Mizuno R, Okada T, et al. MALAT-1 enhances cell motility of lung adenocarcinoma cells by influencing the expression of motility-related genes [J]. *FEBS Lett*, 2010, 584(22): 4575-4580.
- [32] Ying L, Chen Q, Wang Y, et al. Upregulated MALAT-1 contributes to bladder cancer cell migration by inducing epithelial-to-mesenchymal transition [J]. *Mol Biosyst*, 2012, 8(9): 2289-2294.
- [33] Kim K, Jutooru I, Chadalapaka G, et al. HOTAIR is a negative prognostic factor and exhibits pro-oncogenic activity in pancreatic cancer [J]. *Oncogene*, 2013, 32(13): 1616-1625.
- [34] Yang Z, Zhou L, Wu LM, et al. Overexpression of long non-coding RNA HOTAIR predicts tumor recurrence in hepatocellular carcinoma patients following liver transplantation [J]. *Ann Surg Oncol*, 2011, 18(5): 1243-1250.
- [35] Gupta RA, Shah N, Wang KC, et al. Long non-coding RNA HOTAIR reprograms chromatin state to promote cancer metastasis [J]. *Nature*, 2010, 464(7291): 1071-1076.
- [36] Geng YJ, Xie SL, Li Q, et al. Large intervening non-coding RNA HOTAIR is associated with hepatocellular carcinoma progression [J]. *J Int Med Res*, 2011, 39(6): 2119-2128.
- [37] Davis ME, Zuckerman JE, Choi CH, et al. Evidence of RNAi in humans from systemically administered siRNA via targeted nanoparticles [J]. *Nature*, 2010, 464(7291): 1067-1070.
- [38] Taberero J, Shapiro GI, LoRusso PM, et al. First-in-humans trial of an RNA interference therapeutic targeting VEGF and KSP in cancer patients with liver involvement [J]. *Cancer Discov*, 2013, 3(4): 406-417.
- [39] Leenders F, Mopert K, Schmiedeknecht A, et al. PKN3 is required for malignant prostate cell growth downstream of activated PI 3-kinase [J]. *EMBO J*, 2004, 23(16): 3303-3313.
- [40] Strumberg D, Schultheis B, Traugott U, et al. Phase I clinical development of Atu027, a siRNA formulation targeting PKN3 in patients with advanced solid tumors [J]. *Int J Clin Pharmacol Ther*, 2012, 50(1): 76-78.
- [41] Craig SN, Wyatt MD, McInnes C. Current assessment of polo-like kinases as anti-tumor drug targets [J]. *Expert Opin Drug Discov*, 2014, 9(7): 773-789.

(收稿日期:2015-05-07)