

## miRCURY LNA™ microRNA Arrays

### Selected publications - 2013

**Li *et al.*** Global MicroRNA Expression Profiling Reveals Differential Expression of Target Genes in 6-Hydroxydopamine-injured MN9D Cells. *Neuromolecular Med.* 2013 Jul 12. [Epub ahead of print]. [PMID: 23846856](#)

**Liu *et al.*** Analysis of microRNA expression profile induced by AICAR in mouse hepatocytes. *Gene.* 2013 512:364-72. [PMID: 23107762](#)

**Mitani *et al.*** MicroRNA Profiling of Salivary Adenoid Cystic Carcinoma: Association of miR-17-92 Upregulation with Poor Outcome. *PLoS One.* 2013; 8(6): e66778. [PMID: 23825564](#)

**Nanni *et al.*** Estrogen-Dependent Dynamic Profile of eNOS-DNA Associations in Prostate Cancer. *PLoS One.* 2013; 8(5): e62522. [PMID: 23658738](#)

**Trindade *et al.*** MicroRNA-21 is Induced by Rapamycin in a Model of Tuberous Sclerosis (TSC) and Lymphangi leiomyomatosis (LAM). *PLoS One.* 2013; 8(3): e60014. [PMID: 23555865](#)

### Selected publications - 2012

**Bravo-Egana *et al.*** Inflammation-Mediated Regulation of MicroRNA Expression in Transplanted Pancreatic Islets. *J Transplant.* [Epub ahead of print]. [PMID: 22655170](#)

**Bryant *et al.*** miR-10a is aberrantly overexpressed in Nucleophosmin1 mutated acute myeloid leukaemia and its suppression induces cell death. *Mol Cancer.* 11:8. [PMID: 22348345](#)

**Ding *et al.*** MicroRNA expression profiling of mature ovarian teratomas. *Oncol Lett.* 3(1): 35-38. [PMID: 22740852](#)

**Gusscott *et al.*** Notch-mediated repression of miR-223 contributes to IGF1R regulation in T-ALL. *Leuk Res.* [Epub ahead of print]. [PMID: 22424712](#)

**Lang *et al.*** Genome-wide profiling identified a set of miRNAs that are differentially expressed in glioblastoma stem cells and normal neural stem cells. *PLoS One.* 7(4): e36248. [PMID: 22558405](#)

**Li *et al.*** Altered expression profiles of microRNAs upon arsenic exposure of human umbilical vein endothelial cells. *Environ Toxicol Pharmacol.* 34(2): 381-387. [PMID: 22728250](#)

**Marczylo *et al.*** Smoking induces differential miRNA expression in human spermatozoa: A potential transgenerational epigenetic concern?. *Epigenetics.* 7(5). [PMID: 22441141](#)

**Rossing *et al.*** Down-regulation of microRNAs controlling tumourigenic factors in follicular thyroid carcinoma. *J Mol Endocrinol.* 48:11-23. [PMID: 22049245](#)

**Schietinger *et al.*** Rescued tolerant CD8 T cells are preprogrammed to reestablish the tolerant state. *Science.* 2012. 335: 723-7. [PMID: 22267581](#)

**Su *et al.*** A Panel of Serum MicroRNAs as Specific Biomarkers for Diagnosis of Compound- and Herb-Induced Liver Injury in Rats. *PLoS One.* 2012. 7(5): e37395. [PMID: 22624025](#)



**Tanic *et al.*** Deregulated miRNAs in Hereditary Breast Cancer Revealed a Role for miR-30c in Regulating KRAS Oncogene. PLoS One. 2012. 7(6): e38847. [PMID: 22701724](#)

**Van Jaarsveld *et al.*** miR-141 regulates KEAP1 and modulates cisplatin sensitivity in ovarian cancer cells. Oncogene [Epub ahead of print]. [PMID: 23045278](#)

**Vennegaard *et al.*** Allergic contact dermatitis induces upregulation of identical microRNAs in humans and mice. Contact Dermatitis. 2012. [Epub ahead of print]. [PMID: 22594804](#)

**Wang *et al.*** RNA Helicase DDX5 Regulates MicroRNA Expression and Contributes to Cytoskeletal. Mol Cell Proteomics. 2012. 11(2): M111. [PMID: 22086602](#)

### Selected publications - 2011

**Abraham *et al.*** MicroRNA profiling of sporadic and hereditary medullary thyroid cancer identifies predictors of nodal metastasis, prognosis, and potential therapeutic targets. Clin Cancer Res. 2011. 17(14): 4772-81. [PMID: 21622722](#)

**Boucher *et al.*** The miR-143/145 cluster is a novel transcriptional target of Jagged-1/Notch signaling in vascular smooth muscle cells. J Biol Chem. 2011. 286(32): 28312-21. [PMID: 21685392](#)

**Esguerra *et al.*** Differential Glucose-Regulation of MicroRNAs in Pancreatic Islets of Non-Obese Type 2 Diabetes Model Goto-Kakizaki Rat. PLoS ONE 6(4): e18613. [PMID: 21490936](#)

**Husted *et al.*** microRNA expression profiles associated with development of drug resistance in Ehrlich ascites tumor cells. Mol Pharm. 2011 Sep 21. [Epub ahead of print] [PMID: 21899346](#)

**Huang *et al.*** Population differences in microRNA expression and biological implications. RNA Biol. 2011, 8(4): 692-701. [PMID: 21691150](#)

**Karolina *et al.*** MicroRNA 144 impairs insulin signaling by inhibiting the expression of insulin receptor substrate 1 in type 2 diabetes mellitus. PLoS One. 2011;6(8):e22839. [PMID: 21829658](#)

**Keller *et al.*** Gene-chip studies of adipogenesis-regulated microRNAs in mouse primary adipocytes and human obesity. BMC Endocr Disord. 2011, 11:7. [PMID: 21426570](#)

**Patterson *et al.*** MicroRNA profiling of adrenocortical tumors reveals miR-483 as a marker of malignancy. Cancer. 2011, 117(8):1630-9. [PMID: 21472710](#)

**Powers *et al.*** Molecular classification of adult renal epithelial neoplasms using microRNA expression and virtual karyotyping. Diagn Mol Pathol. 2011, 20(2):63-70. [PMID: 21532496](#)

**Ralfkiaer *et al.*** Diagnostic microRNA profiling in cutaneous T-cell lymphoma (CTCL). Blood. 2011 Aug 24. [Epub ahead of print] PMID: [21865341](#)

**Sun *et al.*** miR-99 family of MicroRNAs suppresses the expression of prostate-specific antigen and prostate cancer cell proliferation. Cancer Res. 2011, 71(4):1313-24. [PMID: 21212412](#)

**Sun *et al.*** Targeting of microRNA-142-3p in dendritic cells regulates endotoxin-induced mortality. Blood. 2011, 117(23):6172-83. [PMID: 21474672](#)

**Søkilde *et al.*** Global microRNA analysis of the NCI-60 cancer cell panel. Mol Cancer Ther. 2011, 10(3):375-84 [PMID: 21252286](#)

**Villadsen *et al.*** The miR-143/-145 cluster regulates plasminogen activator inhibitor-1 in bladder cancer. Br J Cancer. 2011, 106(2):366-74 [PMID: 22108519](#)

**Wang *et al.*** Patterns of microRNA expression in normal and early Alzheimer's disease human temporal cortex: white matter versus gray matter. Acta Neuropathol. 2011, 121(2):193-205. [PMID: 20936480](#)

**Yi *et al.*** Circulating MicroRNAs in Patients with Active Pulmonary Tuberculosis. *J Clin Microbiol.* 2011, 49(12): 4246-51. [PMID: 21998423](#)

**Zhang *et al.*** Regulation of cardiac microRNAs by serum response factor. *J Biomed Sci.* 2011 Feb 8;18:15. [PMID: 21303526](#)

**Zhang *et al.*** MicroRNAs 144, 145, and 214 are down-regulated in primary neurons responding to sciatic nerve transection. *Brain Res.* 2011, 1383:62-70. [PMID: 21276775](#)

### Selected publications - 2010

**Andreasen *et al.*** Improved microRNA quantification in total RNA from clinical samples. *Methods* 2010, 50: S6-9. [PMID: 20215018](#)

**Balzer *et al.*** LIN28 alters cell fate succession and acts independently of the let-7 microRNA during neuroglialogenesis in vitro. *Development* 2010, 137: 891-900. [PMID: 20179095](#)

**Belian *et al.*** Effect of YB-1 on the regulation of micro RNA expression in drug-sensitive and drug-resistant gastric carcinoma cells. *Anticancer Res.* 2010, 30: 629-33. [PMID: 20332481](#)

**Budde *et al.*** Control of oligodendroglial cell number by the miR-17-92 cluster. *Development* 2010, 137: 2127-32. [PMID: 20504959](#)

**Chen *et al.*** MicroRNA145 targets BNIP3 and suppresses prostate cancer progression. *Cancer Res.* 2010, 70: 2728-38. [PMID: 20332243](#)

**Chen *et al.*** Methodological framework for functional characterization of plant microRNAs. *J. Exp. Bot.* 2010, 61: 2271-80. [PMID: 20388745](#)

**Fassi Fehri *et al.*** Helicobacter pylori induces miR-155 in T cells in a cAMP-Foxp3-dependent manner. *PLoS ONE* 2010, 5: e9500. [PMID: 20209161](#)

**Gallagher *et al.*** Integration of microRNA changes in vivo identifies novel molecular features of muscle insulin resistance in type 2 diabetes. *Genome Med.* 2010, 2: 9. [PMID: 20353613](#)

**Gao *et al.*** A novel pathway regulates memory and plasticity via SIRT1 and miR-134. *Nature* 2010, [PMID: 20622856](#)

**Georgi & Reh.** Dicer is required for the transition from early to late progenitor state in the developing mouse retina. *J. Neurosci.* 2010, 30: 4048-61. [PMID: 20237275](#)

**Hackl *et al.*** miR-17, miR-19b, miR-20a, and miR-106a are down-regulated in human aging. *Aging Cell* 2010, 9: 291-6. [PMID: 20089119](#)

**Hackler *et al.*** MicroRNA profile of the developing mouse retina. *Invest Ophthalmol Vis Sci.* 2010, 51(4):1823-31. [PMID: 19933188](#)

**Haramati *et al.*** miRNA malfunction causes spinal motor neuron disease. *Proc. Natl. Acad. Sci. USA* 2010, 107: 13111-6. [PMID: 20616011](#)

**Herrera *et al.*** Global microRNA expression profiles in insulin target tissues in a spontaneous rat model of type 2 diabetes. *Diabetologia* 2010, 53: 1099-109. [PMID: 20198361](#)

**Janssen *et al.*** Biologic profiling of lymph node negative breast cancers by means of microRNA expression. *Mod. Pathol.* 2010, 23: 1567-76. [PMID: 20818337](#)

**Kim *et al.*** Myc-induced microRNAs integrate Myc-mediated cell proliferation and cell fate. *Cancer Res.* 2010, 70: 4820-8. [PMID: 20516112](#)

- Kong *et al.*** Therapeutic effects of vitamin D analogs on cardiac hypertrophy in spontaneously hypertensive rats. *Am J. Pathol.* 2010, 177: 622-31. [PMID: 20616348](#)
- Liu *et al.*** miR-21 mediates fibrogenic activation of pulmonary fibroblasts and lung fibrosis. *J Exp Med.* 2010, 207(8):1589-97. [PMID: 20643828](#)
- Lovén *et al.*** MYCN-regulated microRNAs repress estrogen receptor-alpha (ESR1) expression and neuronal differentiation in human neuroblastoma. *Proc. Natl. Acad. Sci. USA* 2010, 107: 1553-8. [PMID: 20080637](#)
- Lundmark *et al.*** Global analysis of microRNA in Arabidopsis in response to phosphate starvation as studied by locked nucleic acid-based microarrays. *Physiol. Plant* 2010, 140: 57-68. [PMID: 20487378](#)
- Mi *et al.*** Aberrant overexpression and function of the miR-17-92 cluster in MLL-rearranged acute leukemia. *Proc. Natl. Acad. Sci. USA* 2010, 107: 3710-5. [PMID: 20133587](#)
- Michael *et al.*** Exosomes from human saliva as a source of microRNA biomarkers. *Oral Dis.* 2010, 16(1):34-8. [PMID: 19627513](#)
- Michon *et al.*** Tooth morphogenesis and ameloblast differentiation are regulated by micro-RNAs. *Dev. Biol.* 2010, 340: 355-68. [PMID: 20102707](#)
- Mao *et al.*** Differential expression of microRNAs in GH-secreting pituitary adenomas. *Diagn Pathol.* 2010, 5:79. [PMID: 21138567](#)
- Murray *et al.*** The two most common histological subtypes of malignant germ cell tumour are distinguished by global microRNA profiles, associated with differential transcription factor expression. *Mol. Cancer* 2010, 9: 290. [PMID: 21059207](#)
- Palmer *et al.*** Malignant germ cell tumors display common microRNA profiles resulting in global changes in expression of messenger RNA targets. *Cancer Res.* 2010, 70: 2911-23. [PMID: 20332240](#)
- Patnaik *et al.*** Evaluation of microRNA expression profiles that may predict recurrence of localized stage I non-small cell lung cancer after surgical resection. *Cancer Res.* 2010, 70: 36-45. [PMID: 20028859](#)
- Rasmussen *et al.*** The miR-144/451 locus is required for erythroid homeostasis. *J Exp Med.* 2010, 207(7):1351-8. [PMID: 20513743](#)
- Song *et al.*** A putative role of micro RNA in regulation of cholesterol 7alpha-hydroxylase expression in human hepatocytes. *J. Lipid Res.* 2010, 51: 2223-33. [PMID: 20351063](#)
- Song *et al.*** MicroRNAs control hepatocyte proliferation during liver regeneration. *Hepatology* 2010, 51: 1735-43. [PMID: 20432256](#)
- Suárez *et al.*** Cutting edge: TNF-induced microRNAs regulate TNF-induced expression of E-selectin and intercellular adhesion molecule-1 on human endothelial cells: feedback control of inflammation. *J Immunol.* 2010, 184: 21-5. [PMID: 19949084](#)
- Tie *et al.*** MiR-218 inhibits invasion and metastasis of gastric cancer by targeting the Robo1 receptor. *PLoS Genet.* 2010 6: e1000879. [PMID: 20300657](#)
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- Yang *et al.*** The role of microRNA in human lung squamous cell carcinoma. *Cancer Genet. Cytogenet.* 2010, 200: 127-33. [PMID: 20620595](#)
- Yelamanchili *et al.*** MicroRNA-21 dysregulates the expression of MEF2C in neurons in monkey and human SIV/HIV neurological disease. *Cell Death Dis.* 2010;1:e77. [PMID:21170291.](#)

**Yi *et al.*** Differential expression of miRNA patterns in renal cell carcinoma and nontumorous tissues. *J. Cancer Res. Clin. Oncol.* 2010, 136: 855-62. [PMID: 19921256](#)

**Wang *et al.*** Up-regulation of microRNA in bladder tumor tissue is not common. *Int. Urol. Nephrol.* 2010, 42: 95-102. [PMID: 19475496](#)

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**Wu *et al.*** A novel function of microRNA let-7d in regulation of galectin-3 expression in attention deficit hyperactivity disorder rat brain. *Brain Pathol.* 2010, 20: 1042-54. [PMID: 20557304](#)

**Zhou *et al.*** MicroRNA-125b confers the resistance of breast cancer cells to paclitaxel through suppression of pro-apoptotic Bcl-2 antagonist killer 1 (Bak1) expression. *J. Biol. Chem.* 2010, 285: 21496-507. [PMID: 20460378](#)

**Zibert *et al.*** MicroRNAs and potential target interactions in psoriasis. *J. Dermatol. Sci.* 2010, doi:10.1016/j.jderm-sci.2010.03.004. [PMID: 20417062](#)

#### Selected publications - 2009

**Chambers & Shuai.** Profiling microRNA expression in Arabidopsis pollen using microRNA array and real-time PCR. *BMC Plant Biol.* 2009, 9: 87. [PMID: 19591667](#)

**Cheung *et al.*** Sex-different and growth hormone-regulated expression of microRNA in rat liver. *BMC Mol Biol.* 2009, 10:13. [PMID: 19236699](#)

**Ding *et al.*** Embryonic stem cells derived from somatic cloned and fertilized blastocysts are post-transcriptionally indistinguishable: a MicroRNA and protein profile comparison. *Proteomics* 2009, 9: 2711-21. [PMID: 19387993](#)

**Dyrskjøt *et al.*** Genomic profiling of microRNAs in bladder cancer: miR-129 is associated with poor outcome and promotes cell death in vitro. *Cancer Res.* 2009, 69: 4851-60. [PMID: 19487295](#)

**Gebeshuber *et al.*** miR-29a suppresses tristetraprolin, which is a regulator of epithelial polarity and metastasis. *EMBO Rep.* 2009, 10: 400-5. [PMID: 19247375](#)

**Gong *et al.*** MicroRNA-513 regulates B7-H1 translation and is involved in IFN-gamma-induced B7-H1 expression in cholangiocytes. *J. Immunol.* 2009, 182: 1325-33. [PMID: 19155478](#)

**Guo *et al.*** miR-15b and miR-16 are implicated in activation of the rat hepatic stellate cell: An essential role for apoptosis. *J. Hepatol.* 2009, 50: 766-78. [PMID: 19232449](#)

**Guo *et al.*** Changes in microRNAs associated with hepatic stellate cell activation status identify signaling pathways. *FEBS J.* 2009, 276: 5163-76. [PMID: 19674103](#)

**Ju *et al.*** Differential microRNA expression in childhood B-cell precursor acute lymphoblastic leukemia. *Pediatr. Hematol. Oncol.* 2009, 26: 1-10. [PMID: 19206004](#)

**Kim *et al.*** Translational control of FOG-2 expression in cardiomyocytes by microRNA-130a. *PLoS ONE* 2009, 4: e6161. [PMID: 19582148](#)

**Lian *et al.*** Altered microRNA expression in patients with non-obstructive azoospermia. *Reprod. Biol. Endocrinol.* 2009, 7: 13. [PMID: 19210773](#)

**Liu *et al.*** Uncovering growth-suppressive MicroRNAs in lung cancer. Clin. Cancer Res. 2009, 15: 1177-83. [PMID: 19228723](#)

**Liu *et al.*** miR-147, a microRNA that is induced upon Toll-like receptor stimulation, regulates murine macrophage inflammatory responses. Proc. Natl. Acad. Sci. USA 2009, 106: 15819-24. [PMID: 19721002](#)

**Montenegro *et al.*** Expression patterns of microRNAs in the chorioamniotic membranes: a role for microRNAs in human pregnancy and parturition. J. Pathol. 2009, 217: 113-21. [PMID: 18991333](#)

**Schmidt *et al.*** In vivo profile of the human leukocyte microRNA response to endotoxemia. Biochem. Biophys. Res. Commun. 2009, 380: 437-41. [PMID: 19284987](#)

**Soon *et al.*** miR-195 and miR-483-5p Identified as Predictors of Poor Prognosis in Adrenocortical Cancer. Clin. Cancer Res. 2009, 15: 7684-92. [PMID: 19996210](#)

**Tesfaye *et al.*** Identification and expression profiling of microRNAs during bovine oocyte maturation using heterologous approach. Mol. Reprod. Dev. 2009, 76: 665-77. [PMID: 19170227](#)

**Wang *et al.*** MicroRNA: novel regulators involved in the remodeling and reverse remodeling of the heart. Cardiology. 2009, 113: 81-8. [PMID: 19018142](#)

**Xu *et al.*** Regulation of hepatic microRNA expression in response to ischemic preconditioning following ischemia/reperfusion injury in mice. OMICS 2009, 13: 513-20. [PMID: 19780683](#)

**Yan *et al.*** Repression of the miR-17-92 cluster by p53 has an important function in hypoxia-induced apoptosis. EMBO J. 2009, 28: 2719-32. [PMID: 19696742](#)

**Zhang *et al.*** Altered gene expression and miRNA expression associated with cancerous IEC-6 cell transformed by MNNG. J. Exp. Clin. Cancer Res. 2009, 28:56. [PMID: 19397828](#)

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#### Selected publications - 2008

**Bak *et al.*** MicroRNA expression in the adult mouse central nervous system. RNA 2008, 14: 432-44. [PMID: 18230762](#)

**Braun *et al.*** p53-Responsive microRNAs 192 and 215 are capable of inducing cell cycle arrest. Cancer Res. 2008, 68: 10094-104. [PMID: 19074875](#)

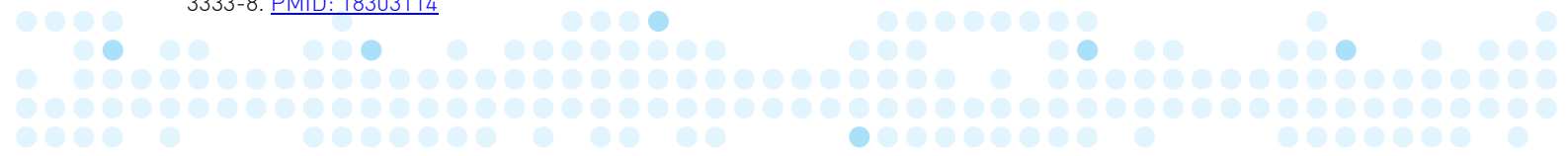
**Brosh *et al.*** p53-Repressed miRNAs are involved with E2F in a feed-forward loop promoting proliferation. Mol. Syst. Biol. 2008, 4: 229. [PMID: 19034270](#)

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**da Costa Martins *et al.*** Conditional dicer gene deletion in the postnatal myocardium provokes spontaneous cardiac remodeling. Circulation 2008, 118: 1567-76. [PMID: 18809798](#)

**Dahiya *et al.*** MicroRNA Expression and Identification of Putative miRNA Targets in Ovarian Cancer. PLoS ONE 2008, 3: e2436. [PMID: 18560586](#)

**Dore *et al.*** A GATA-1-regulated microRNA locus essential for erythropoiesis. Proc. Natl. Acad. Sci. USA 2008, 105: 3333-8. [PMID: 18303114](#)



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- Huang *et al.*** Microarray analysis of microRNA expression in hepatocellular carcinoma and non-tumorous tissues without viral hepatitis. *J. Gastroenterol. Hepatol.* 2008, 23: 87-94. [PMID: 18171346](#)
- Ivey *et al.*** MicroRNA regulation of cell lineages in mouse and human embryonic stem cells. *Cell Stem Cell* 2008, 2: 219-29. [PMID: 18371447](#)
- Lal *et al.*** p16<sup>INK4a</sup> Translation Suppressed by miR-24. *PLoS ONE* 2008, 3: e1864. [PMID: 18365017](#)
- Schepeler *et al.*** In vivo profile of the human leukocyte microRNA response to endotoxemia. *Cancer Res.* 2008, 68: 6416-24. [PMID: 18676867](#)
- Suárez *et al.*** Dicer-dependent endothelial microRNAs are necessary for postnatal angiogenesis. *Proc. Natl. Acad. Sci. USA* 2008, 105: 14082-7. [PMID: 18779589](#)
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- Wang *et al.*** The expression of microRNA miR-107 decreases early in Alzheimer's disease and may accelerate disease progression through regulation of beta-site amyloid precursor protein-cleaving enzyme 1. *J. Neurosci.* 2008, 28: 1213-23. [PMID: 18234899](#)
- Wong & Tellam.** MicroRNA-26a targets the histone methyltransferase Enhancer of Zeste homolog 2 during myogenesis. *J. Biol. Chem.* 2008, 283: 9836-43. [PMID: 18281287](#)

#### Selected publications - 2007

- Castoldi *et al.*** miChip: a microarray platform for expression profiling of microRNAs based on locked nucleic acid (LNA) oligonucleotide capture probes. *Methods* 2007, 43: 146-52. [PMID: 17889802](#)
- Kruhøffer *et al.*** Isolation of microarray-grade total RNA, microRNA, and DNA from a single PAXgene blood RNA tube. *J. Mol. Diagn.* 2007, 9: 452-8. [PMID: 17690207](#)
- Kuehbacher *et al.*** Role of Dicer and Drosha for endothelial microRNA expression and angiogenesis. *Circ. Res.* 2007, 101: 59-68. [PMID: 17540974](#)
- Loscher *et al.*** Altered retinal microRNA expression profile in a mouse model of retinitis pigmentosa. *Genome Biol.* 2007, 8: R248. [PMID: 18034880](#)
- Muralidhar *et al.*** Global microRNA profiles in cervical squamous cell carcinoma depend on Drosha expression levels. *J. Pathol.* 2007, 212: 368-77. [PMID: 17471471](#)
- Moffat *et al.*** microRNAs in adult rodent liver are refractory to dioxin treatment. *Toxicol. Sci.* 2007, 99: 470-87. [PMID: 17698510](#)
- Sempere *et al.*** Altered MicroRNA expression confined to specific epithelial cell subpopulations in breast cancer. *Cancer Res.* 2007, 67: 11612-20. [PMID: 18089790](#)
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**Valadi *et al.*** Exosome-mediated transfer of mRNAs and microRNAs is a novel mechanism of genetic exchange between cells. *Nat. Cell Biol.* 2007, 9: 654-9. [PMID: 17486113](#)

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**Wang & Li.** Identification of differentially expressed microRNAs during the development of Chinese murine mammary gland. *J. Genet. Genomics.* 2007, 34: 966-73. [PMID: 18037133](#)

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