

miRCURY LNA™ microRNA Arrays

Selected publications - 2011

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](#)

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

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](#)

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 neurogenesis 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](#)

Toischer *et al.* Differential cardiac remodeling in preload versus afterload. *Circulation.* 2010, 122: 993-1003. [PMID: 20733099](#)

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

Wu *et al.* MiR-339-5p inhibits breast cancer cell migration and invasion in vitro and may be a potential biomarker for breast cancer prognosis. *BMC Cancer* 2010, 10: 542. [PMID: 20932331](#)



- 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](#)
- Yang *et al.*** The role of microRNA in human lung squamous cell carcinoma. *Cancer Genet. Cytogenet.* 2010, 200: 127-33. [PMID: 20620595](#)
- 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](#)
- 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 tristetrarolin, 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](#)



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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](#)

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Zhao *et al.* Identification of miRNAs associated with tumorigenesis of retinoblastoma by miRNA microarray analysis. Childs. Nerv. Syst. 2009, 25: 13-20. [PMID: 18818933](#)

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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](#)

Castoldi *et al.* miChip: an array-based method for microRNA expression profiling using locked nucleic acid capture probes. Nat. Protoc. 2008, 3: 321-9. [PMID: 18274534](#)

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](#)



- Hu *et al.*** MicroRNA expression and regulation in mouse uterus during embryo implantation. *J. Biol. Chem.* 2008, 283: 23473-84. [PMID: 18556655](#)
- 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^{INK4a} 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](#)
- Wagner *et al.*** Replicative senescence of mesenchymal stem cells: a continuous and organized process. *PLoS ONE* 2008, 3: e2213. [PMID: 18493317](#)
- 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](#)
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- 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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