

miRCURY LNA™ Universal RT microRNA PCR

Selected publications – panels

For publications on individual assays see page 3

Acharya *et al.* Serum microRNAs are early indicators of survival after radiation-induced hematopoietic injury. *Sci Transl Med.* 2015 May 13;7(287):287ra69. PMID: [25972001](#)

Ameling *et al.* Associations of circulating plasma microRNAs with age, body mass index and sex in a population-based study. *BMC Med Genomics.* 2015 Oct 14;8:61. PMID: [26462558](#)

Argyropoulos *et al.* Urinary microRNA profiling in the nephropathy of type 1 diabetes. *PLoS One.* 2013;8(1):e54662. PMID: [23358711](#)

Arroyo *et al.* Argonaute2 complexes carry a population of circulating microRNAs independent of vesicles in human plasma. *Proc Natl Acad Sci U S A.* 2011. 108: 5003-8. PMID: [21383194](#)

Bhushan *et al.* EphB6 receptor modulates micro RNA profile of breast carcinoma cells. *PLoS One.* 2011. 6(7): e22484. PMID: [21811619](#)

Brunetto *et al.* A serum microRNA signature is associated with the immune control of chronic hepatitis B virus infection. *PLoS One.* 2014, 9(10):e110782. PMID: [25350115](#).

Bryant *et al.* Changes in circulating microRNA levels associated with prostate cancer. *Br J Cancer.* 2012. 106(4):768-74. PMID: [22240788](#)

Bye *et al.* Circulating MicroRNAs and Aerobic Fitness – The HUNT-Study. *PLoS One.* 2013;8(2):e57496. PMID: [23469005](#)

Chang *et al.* HIV-1 Tat promotes neuronal dysfunction through disruption of microRNAs. *J Biol Chem.* 2011. 286(47): 41125-34. PMID: [21956116](#)

Danielson *et al.* Increased levels of COX-2 in oral lichen planus supports an autoimmune cause of the disease. *J Eur Acad Dermatol Venereol.* 2012. 26(11):1415-9. PMID: [22017396](#)

Gandhi *et al.* Circulating MicroRNAs as Biomarkers for Disease Staging in Multiple Sclerosis. *Ann Neurol.* 2013. 73(6):729-40. PMID: [23494648](#)

Goncharova *et al.* Interferons modulate mitogen-induced protein synthesis in airway smooth muscle. *Am J Physiol Lung Cell Mol Physiol.* 2010. 299(1): L25-35. PMID: [20382746](#)

Hanniford *et al.* A miRNA-Based Signature Detected in Primary Melanoma Tissue Predicts Development of Brain Metastasis. *Clin Cancer Res.* 2015 Nov 1;21(21):4903-12. PMID: [26089374](#)

Hofslis *et al.* Identification of serum microRNA profiles in colon cancer. *Br J Cancer.* 2013. 108(8):1712-9. PMID: [23558896](#)

Jensen *et al.* Evaluation of two commercial global miRNA expression profiling platforms for detection of less abundant miRNAs. *BMC Genomics.* 2011. 12: 435. PMID: [21867561](#)

Jorde *et al.* Plasma profile of microRNA after supplementation with high doses of vitamin D3 for 12 months. *BMC Research Notes.* 2012. 5(1):245. PMID: [22594500](#)

- Kazenwadel *et al.*** Prox1 expression is negatively regulated by miR-181 in endothelial cells. *Blood*. 2010. 116: 2395-401. PMID: [20558617](#)
- Kodahl *et al.*** Alterations in circulating miRNA levels following early-stage estrogen receptor-positive breast cancer resection in post-menopausal women. *PLoS One*. 2014 Jul 8;9(7):e101950. PMID: [25004125](#)
- Körner *et al.*** Bortezomib partially improves laminin α 2 chain-deficient muscular dystrophy. *Am J Pathol*. 2014 May;184(5):1518-28. PMID: [24631023](#)
- Kuosmanen *et al.*** MicroRNA profiling of pericardial fluid samples from patients with heart failure. *PLoS One*. 2015 Mar 12;10(3):e0119646. PMID: [25763857](#)
- Langhe *et al.*** A novel serum microRNA panel to discriminate benign from malignant ovarian disease. *Cancer Lett*. 2015 Jan 28;356(2 Pt B):628-36. PMID: [25451316](#)
- Li *et al.*** MicroRNA-99a inhibits hepatocellular carcinoma growth and correlates with prognosis of patients with hepatocellular carcinoma. *J Biol Chem*. 2011. 286(42): 36677-85. PMID: [21878637](#)
- Ma *et al.*** Differential miRNA expressions in peripheral blood mononuclear cells for diagnosis of lung cancer. *Lab Invest*. 2015 Oct;95(10):1197-206. PMID: [26146958](#)
- Medrano *et al.*** Two microRNAs -miR-330 and miR-125b-5p- mark the juxtaglomerular cell and balance its smooth muscle phenotype. *Am J Physiol Renal Physiol*. 2012. 302(1): F29-37. PMID: [21993888](#)
- Menqual *et al.*** Using microRNA profiling in urine samples to develop a non-invasive test for bladder cancer. *Int J Cancer*. 2013.133(11):2631-41. PMID:[23686449](#)
- Muñoz *et al.*** Altered miRNA Signature of Developing Germ-cells in Infertile Patients Relates to the Severity of Spermatogenic Failure and Persists in Spermatozoa. *Sci Rep*. 2015 Dec 9;5:17991. PMID: [26648257](#)
- Murray *et al.*** Solid tumors of childhood display specific serum microRNA profiles. *Cancer Epidemiol Biomarkers Prev*. 2015 Feb;24(2):350-60. PMID: [25416717](#)
- Pritchard *et al.*** Blood cell origin of circulating microRNAs: a cautionary note for cancer biomarker studies. *Cancer Prev Res (Phila)*. 2011. 5(3): 492-7. PMID: [22158052](#)
- Roberts *et al.*** Extracellular microRNAs are dynamic non-vesicular biomarkers of muscle turnover. *Nucleic Acids Res*. 2013 Aug 14. [Epub ahead of print]. PMID: [23945935](#)
- Rossing *et al.*** Down-regulation of microRNAs controlling tumourigenic factors in follicular thyroid carcinoma. *J Mol Endocrinol*. 2012. 48: 11-23. PMID: [22049245](#)
- Sørensen *et al.*** miRNA expression profiles in cerebrospinal fluid and blood of patients with Alzheimer's disease and other types of dementia - an exploratory study. *Transl Neurodegener*. 2016 Mar 15;5:6. PMID: [26981236](#)
- Shin *et al.*** Circulating cell-free miRNAs as biomarker for triple-negative breast cancer. *Br J Cancer*. 2015 May 26;112(11):1751-9. PMID: [25906045](#)
- Starikova *et al.*** Differential expression of plasma miRNAs in patients with unprovoked venous thromboembolism and healthy control individuals. *Thromb Res*. 2015, 136(3):566-72. PMID: [26235746](#).
- Wang *et al.*** Comparing the MicroRNA Spectrum between Serum and Plasma. *PLoS One*. 2012;7(7):e41561. PMID: [22859996](#)
- Wang *et al.*** Green tea polyphenol EGCG suppresses lung cancer cell growth through upregulating miR-210 expression caused by stabilizing HIF-1 α . *Carcinogenesis*. 2011. 32(12): 1881-9. PMID: [21965273](#)

Watahiki *et al.* Plasma miRNAs as Biomarkers to Identify Patients with Castration-Resistant Metastatic Prostate Cancer. *Int J Mol Sci.* 2013. 14(4):7757-70. PMID:[23574937](#)

Winther *et al.* Differential Plasma MicroRNA Profiles in HBeAg Positive and HBeAg Negative Children with Chronic Hepatitis B. *PLoS One.* 2013; 8(3): e58236. PMID:[23469271](#)

Wu *et al.* microRNA-181a represses ox-LDL-stimulated inflammation response in dendritic cell by targeting c-Fos. *J Lipid Res.* 2012. [Ahead of print]. PMID: [22956783](#)

Zhou *et al.* Diagnostic value of a plasma microRNA signature in gastric cancer: a microRNA expression analysis. *Sci Rep.* 2015 Jun 10;5:11251. PMID: [26059512](#)

Selected publications – individual assays

Alexander *et al.* Exosome-delivered microRNAs modulate the inflammatory response to endotoxin. *Nat Commun.* 2015 Jun 18;6:7321. PMID: [26084661](#)

Ali *et al.* MicroRNA profiling of diagnostic needle aspirates from patients with pancreatic cancer. *Br J Cancer.* 2012. 107(8):1354-60. PMID: [22929886](#)

Balaraman *et al.* Opposing actions of ethanol and nicotine on microRNAs are mediated by nicotinic acetylcholine receptors in fetal cerebral cortical-derived neural progenitor cells. *Alcohol Clin Exp Res.* 2012. 36(10):1669-77. PMID:[22458409](#)

Biyashev *et al.* MiR-27b controls venous specification and tip cell fate. *Blood.* 2012. 119(11): 2679-87. PMID: [22207734](#)

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](#)

Cardoso *et al.* miR-155 modulates microglia-mediated immune response by downregulating SOCS-1 and promoting cytokine and NO production. *Immunology.* 2012. 135: 73-88. PMID: [22043967](#)

De Cecco *et al.* Increased Sensitivity to Chemotherapy Induced by CpG- ODN Treatment Is Mediated by microRNA Modulation. *PLoS One* 2013. 8:e58849 . PMID: [23484053](#)

Craig *et al.* Epigenetic Silencing of MicroRNA-203 Dysregulates ABL1 Expression and Drives Helicobacter-associated Gastric Lymphomagenesis. *Cancer Res.* 2011 71(10):3616-24. PMID: [21454413](#)

Eulalio *et al.* Functional screening identifies miRNAs inducing cardiac regeneration. *Nature* 2012. 492(7429):376-81. PMID: [23222520](#)

Gu *et al.* Effect of narrow-band ultraviolet B phototherapy on p63 and microRNA (miR-21 and miR-125b) expression in psoriatic epidermis. *Acta Derm Venereol.* 2011. 5: 392-7. PMID: [21373745](#)

Imbert-Fernandez *et al.* MUC1/A and MUC1/B splice variants differentially regulate inflammatory cytokine expression. *Exp Eye Res.* 2011. 93(5): 649-57. PMID: [21854773](#)

Jonsdottir *et al.* Validation of expression patterns for nine miRNAs in 204 lymph-node negative breast cancers. *PLoS One.* 2012;7(11):e48692. PMID: [23144930](#)

Jovasevic *et al.* GABAergic mechanisms regulated by miR-33 encode state-dependent fear. *Nat Neurosci.* 2015 Sep;18(9):1265-71. doi: 10.1038/nn.4084. Epub 2015 Aug 17. PubMed PMID: [26280760](#)

Junn *et al.* Repression of alpha-synuclein expression and toxicity by microRNA-7. *Proc Natl Acad Sci U S A.* 2009. 106(31): 13052-7. PMID: [19628698](#)

- Jung *et al.*** Human ESC Self-renewal Promoting microRNAs Induce Epithelial–Mesenchymal Transition in Hepatocytes by Controlling the PTEN and TGF β Tumor Suppressor Signaling. *Mol Cancer Res.* 2012. 10(7):979-91. PMID:[22622027](#)
- Klinge *et al.*** Targeting the intracellular MUC1 C-terminal domain inhibits proliferation and estrogen receptor transcriptional activity in lung adenocarcinoma cells. *Mol Cancer Ther.* 2011. 10(11):2062-71. PMID: [21862684](#)
- Koo *et al.*** Serial selection for invasiveness increases expression of miR-143/miR-145 in glioblastoma cell lines. *BMC Cancer* 2012. 12:143. PMID: [22490015](#)
- Li *et al.*** A microRNA, mir133b, suppresses melanopsin expression mediated by failure dopaminergic amacrine cells in RCS rats. *Cell Signal.* 2012. 24(3): 685-98. PMID: [22101014](#)
- Lin *et al.*** MiR-142-3p as a Potential Prognostic Biomarker for Esophageal Squamous Cell Carcinoma. *J Surg Oncol.* 2012. 105(2): 175-82. PMID: [21882196](#)
- Lin *et al.*** Genetic polymorphism at miR-181a binding site contributes to gastric cancer susceptibility. *Carcinogenesis.* 2012. [Ahead of print]. PMID: [22971574](#)
- Loo *et al.*** Extracellular metabolic energetics can promote cancer progression. *Cell.* 2015 Jan 29;160(3):393-406. PMID: [25601461](#)
- Malmevik *et al.*** Identification of the miRNA targetome in hippocampal neurons using RIP-seq. *Sci Rep.* 2015 Jul 28;5:12609. PMID: [26219083](#)
- Manavalan *et al.*** Reduced Expression of miR-200 Family Members Contributes to Antiestrogen Resistance in LY2 Human Breast Cancer Cells. *PLoS One.* 2013. 8(4):e62334. PMID:[23626803](#)
- Manavalan *et al.*** Differential expression of microRNA expression in tamoxifen-sensitive MCF-7 versus tamoxifen-resistant LY2 human breast cancer cells. *Cancer Lett.* 2011. 313(1): 26-43. PMID: [21955614](#)
- Marczylo *et al.*** Smoking induces differential miRNA expression in human spermatozoa: A potential transgenerational epigenetic concern?. *Epigenetics.* 2012. 7(5). PMID: [22441141](#)
- Min *et al.*** MMSET stimulates myeloma cell growth through microRNA-mediated modulation of c-MYC. *Leukemia.* 2012. [Ahead of print]. PMID: [22972034](#)
- Mukerjee *et al.*** Deregulation of microRNAs by HIV-1 Vpr protein leads to the development of neurocognitive disorders. *J Biol Chem.* 2011. 286(40): 34976-85. PMID: [21816823](#)
- Najafi *et al.*** Degradation of miR-21 induces apoptosis and inhibits cell proliferation in human hepatocellular carcinoma. *Cancer Gene Ther.* 2015 Nov;22(11):530-5. PMID: [26427512](#)
- Noorbakhsh *et al.*** Impaired neurosteroid synthesis in multiple sclerosis. *Brain.* 2011. 134: 2703-21. PMID: [21908875](#)
- Søkilde *et al.*** Global microRNA analysis of the NCI-60 cancer cell panel. *Mol Cancer Ther.* 2011. 10: 375-84. PMID: [21252286](#)
- Tal *et al.*** MicroRNAs control neurobehavioral development and function in zebrafish. *FASEB J.* 2012. 26(4): 1452-61. PMID: [22253472](#)
- 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](#)
- Teng *et al.*** Endocrine Disruptors Fludioxonil and Fenhexamid Stimulate miR-21 Expression in Breast Cancer Cells. *Toxicol Sci.* 2012. 131(1): 71–83. PMID: [23052036](#)
- Zhang *et al.*** Regulation of cardiac microRNAs by serum response factor. *J Biomed Sci.* 2011. 8; 18:15. PMID: [21303526](#)