

## microRNA References

miRBase: microRNA sequences, targets and gene nomenclature.  
Griffiths-Jones S, Grocock RJ, van Dongen S, Bateman A, Enright AJ.  
NAR, 2006, 34, Database Issue, D140-D144

The microRNA Registry.  
Griffiths-Jones S.  
NAR, 2004, 32, Database Issue, D109-D111

A uniform system for microRNA annotation.  
Ambros V, Bartel B, Bartel DP, Burge CB, Carrington JC, Chen X, Dreyfuss G, Eddy SR, Griffiths-Jones S, Marshall M, Matzke M, Ruvkun G, Tuschi T.  
RNA, 2003, 9(3), 277-279

### *Vector-based miRNA expression*

Mathijs Voorhoeve, P., C.L. Sage, M. Schrier, A.J.M.Gillis, H. Stoop, R.Nagel, Y. Liu, J.V.Duijse, J. Drost, A. Griekspoor, E. Zlotorynski, N. Yabuta, G. D.Vita, H. Nojima, L.H.J.Looijenga, and R. Agami (2006). "A Genetic Screen Implicates miRNA-372 and miRNA-373 As Oncogenes in Testicular Germ Cell Tumors." Cell, 124, 1169-1181

Shin, K. J., E. A. Wall, J. R. Zavzavadjan, L. A. Santat, J. Liu, J. I. Hwang, R. Rebres, T. Roach, W. Seaman, M. I. Simon and I. D. Fraser (2006). "A single lentiviral vector platform for microRNA-based conditional RNA interference and coordinated transgene expression." PNAS U S A, 103(37): 13759-64.

Stegmeier, F., G. Hu, R. J. Rickles, G. J. Hannon and S. J. Elledge (2005). "A lentiviral microRNA-based system for single-copy polymerase II-regulated RNA interference in mammalian cells." PNAS U S A, 102(37): 13212-7.

### *Primary miRNA processing*

Han J, Lee Y, Yeom KH, Kim YK, Jin H, Kim VN. "The Drosha-DGCR8 complex in primary micorRNA processing". Gene Develop, 18: 3016-3027, 2004.

Han J, Lee Y, Yeom KH, Nam JW, Heo I, Rhee JK, Sohn SY, Cho Y, Zhang BT, Kim VN. "Molecular basis for the recognition of primary microRNAs by the Drosha-DGCR8 complex". Cell, 125: 887-901.2006.

Zeng Y, Yi R, Cullen BR. "Recognition and cleavage of primary microRNA precursors by the nuclear processing enzyme Drosha". EMBO J, 24:138-148, 2005.

Zeng Y, Cullen BR. "Efficient processing of primary microRNA hairpins by Drosha requires flanking nonstructured RNA sequences". J Bio Chem, 280:27595-27603, 2005.



*miRNA functional studies*

Bennasser, Y., S. Y. Le, M. L. Yeung and K. T. Jeang (2004). "HIV-1 encoded candidate micro-RNAs and their cellular targets." *Retrovirology*, 1(1): 43.

Esau C, Kang X, Peralta E, Hanson E, Marcusson EG, Ravichandran LV, Sun Y, Koo S, Perera RJ, Jain R, Dean NM, Freier SM, Bennett CF, Lollo B, Griffey R. MicroRNA-143 regulates adipocyte differentiation. *J Biol Chem*. 2004 Dec 10;279(50):52361-5.

Hariharan, M., V. Scaria, B. Pillai and S. K. Brahmachari (2005). "Targets for human encoded microRNAs in HIV genes." *Biochem Biophys Res Commun*, 337(4): 1214-8.

Johnson, S. M., H. Grosshans, J. Shingara, M. Byrom, R. Jarvis, A. Cheng, E. Labourier, K. L. Reinert, D. Brown and F. J. Slack (2005). "RAS is regulated by the let-7 microRNA family." *Cell*, 120(5): 635-47.

Kim, V. N. (2005). "Small RNAs: classification, biogenesis, and function." *Mol Cells*, 19(1): 1-15.

Lee, R. C., R. L. Feinbaum and V. Ambros (1993). "The *C. elegans* heterochronic gene lin-4 encodes small RNAs with antisense complementarity to lin-14." *Cell*, 75(5): 843-54.

Lee, Y., K. Jeon, J. T. Lee, S. Kim and V. N. Kim (2002). "MicroRNA maturation: stepwise processing and subcellular localization." *Embo J*, 21(17): 4663-70.

Olsen, P. H. and V. Ambros (1999). "The lin-4 regulatory RNA controls developmental timing in *Caenorhabditis elegans* by blocking LIN-14 protein synthesis after the initiation of translation." *Dev Biol*, 216(2): 671-80.

Pfeffer, S., M. Zavolan, F. A. Grasser, M. Chien, J. J. Russo, J. Ju, B. John, A. J. Enright, D. Marks, C. Sander and T. Tuschl (2004). "Identification of virus-encoded microRNAs." *Science*, 304(5671): 734-6.

Yi, R., Y. Qin, I. G. Macara and B. R. Cullen (2003). "Exportin-5 mediates the nuclear export of pre-microRNAs and short hairpin RNAs." *Genes Dev*, 17(24): 3011-6.



**BioCat GmbH**  
Im Neuenheimer Feld 584  
69120 Heidelberg  
Germany

TELEFON/FAX:  
Tel: +49 (0)6221-7141516  
Fax: +49 (0)6221-7141529

E-MAIL:  
[info@biocat.com](mailto:info@biocat.com)  
INTERNET:  
[www.biocat.com](http://www.biocat.com)

GESCHÄFTSFÜHRER:  
Dr. Michael Ehret

BANKVERBINDUNG:  
Sparkasse Heidelberg  
BLZ 672 500 20  
Kontonummer 89176

UMSATZSTEUER:  
UST-IDNr. DE206700185  
HANDELSREGISTER:  
HRB 336519 Mannheim