



Single Cell Gene Expression

HEMATOPOIETIC STEM CELLS AND PROGENITORS

Petriv, O.I., Kuchenbauer, F., Delaney, A.D., et al. August 11, 2010. **Comprehensive microRNA expression profiling of the hematopoietic hierarchy.** *PNAS*

Hosokawa, K., Arai, F., Yoshihara, H., Iwasaki, H., Nakamura, Y., Gomei, Y. and Suda, T. July 29, 2010. **Knockdown of N-cadherin suppresses the long-term engraftment of hematopoietic stem cells.** *BLOOD*

Iwasaki, H., Arai, F., Kubota, Y., Dahl, M. and Suda, T. July 29, 2010. **Endothelial protein C receptor-expressing hematopoietic stem cells reside in the perisinusoidal niche in fetal liver.** *BLOOD*

Tay, S., Hughey, J.J., Lee, T.K., Lipniacki, T., Quake, S.R. and Covert, M.W. June 27, 2010. **Single-cell NF- κ B dynamics reveal digital activation and analogue information processing.** *Nature*

Nakamura, Y., Arai, F., Iwasaki, H., Hosokawa, K., Kobayashi, I., Gomei, Y., Matsumoto, Y., Yoshihara, H. and Suda, T. May 14, 2010. **Isolation and characterization of endosteal niche cell populations that regulate hematopoietic stem cells.** *BLOOD*

Hosokawa, K., Arai, F., Yoshihara, H., Iwasaki, H., Hembree, M., Yin, T., Nakamura, Y., Gomei, Y., Takubo, K., Shiama, H., Matsuoka, S., Li, L., Suda, T. Mar 5, 2010. **Cadherin-based adhesion is a potential target for niche manipulation to protect hematopoietic stem cells in adult bone marrow.** *Cell Stem Cell*

Sato, T., Onai, N., Yoshihara, H., Arai, F., Suda, T., Ohteki, T. 2009 June. **Interferon regulatory factor-2 protects quiescent hematopoietic stem cells from type I interferon-dependent exhaustion.** *Nat Med.* 15(6):696-700.

Warren, L., Bryder, D., Weissman, I.L., and Quake, S.R. 2006 Nov 21. **Transcription factor profiling in individual hematopoietic progenitors by digital RT-PCR.** *Proc. Natl. Acad. Sci. USA.* 103(47):17807-12.

EMBRYONIC STEM CELLS AND DEVELOPMENT

McElroy, S.L., Byrne, J.A., Chavez, S.L., Behr, B., Hsueh, A.J., Westphal, L.M., Reijo Pera, R.A. June 7, 2010. **Parthenogenic Blastocysts Derived from Cumulus-Free In Vitro Matured Human Oocytes.** *PLoS ONE*

Guo, G., Huss, M., Tong, G.Q., Wang, C., Sun, L., Clarke, N.D., and Robson, P. Apr 20, 2010. **Resolution of Cell Fate Decisions Revealed by Single-Cell Gene Expression Analysis from Zygote to Blastocyst.** *Developmental Cell*

Yuan, P., Han, J., Guo, G., Orlov, Y.L., Huss, M., Loh, Y., Yaw, L., Robson, P., Lim, B., and Ng, H. 2009 Nov 01. **Eset partners with Oct4 to restrict extraembryonic trophoblast lineage potential in embryonic stem cells.** *Genes Dev.*

Nicholas, C.R., Haston, K.M., Grewall, A.K., Longacre, T.A. and Reijo Pera, R.A. 2009 Aug 20. **Transplantation directs oocyte maturation from embryonic stem cells and provides a therapeutic strategy for female infertility.** *Human Molecular Genetics*.

Haston, K.M., Tung, J.Y., Reijo Pera, R.A. 2009 May 21. **Dazl functions in maintenance of pluripotency and genetic and epigenetic programs of differentiation in mouse primordial germ cells in vivo and in vitro.** *PLoS ONE.* 4(5):e5654

Foygel, K., Choi, B., Jun, S., et al., 2008 Dec 31. **A Novel and Critical Role for Oct4 as a Regulator of the Maternal-Embryonic Transition.** *PLoS ONE.* 3(12): e4109.

Sindelka, R., Jonak, J., Hands, R., Bustin, S.A., and Kubista, M. 2007 Nov 26. **Intracellular expression profiles measured by real-time PCR tomography in the *Xenopus laevis* oocyte.** *Nucleic Acids Research.* 36(2): 387-392.

CANCER STEM CELLS

Helzer, K.T., Barnes, H.E., Day, L., Harvey, J., Billings, P.R., and Forsyth A. 2009 Sep 29. **Circulating Tumor Cells Are Transcriptionally Similar to the Primary Tumor in a Murine Prostate Model.** *Cancer Research.* [Epub ahead of print]

Diehn, M., Cho, R.W., Lobo, N.A., et al. 2009 April 9. **Association of reactive oxygen species levels and radioresistance in cancer stem cells.** *Nature.* 458: 780-783.

IPS

Byrne, J.A., Nguyen, H.N., Reijo Pera, R.A. 2009 Sept 23. **Enhanced Generation of Induced Pluripotent Stem Cells from a Subpopulation of Human Fibroblasts.** *PLoS ONE.*