

Primary Research Articles

2011

Wagner TU*, [Fischer A](#)*, Thoma EC, Scharl M (2011) Cross Query: a web tool for easy associative querying of transcriptome data. **PLoS One** 6: e28990.

Thoma EC, Wagner TU, Weber IP, Herpin A, [Fischer A](#), Scharl, M (2011) Ectopic expression of single transcription factors directs differentiation of a medaka spermatogonial cell line. **Stem Cells Dev** 20: 1425-1438.

Schleider E, Stahl S, [Wüstehube J](#), Walter U, [Fischer A](#), Felbor U (2011) Evidence for anti-angiogenic and pro-survival functions of the cerebral cavernous malformation protein 3. **Neurogenetics** 12: 83-86.

2010

[Wüstehube J](#), Bartol A, [Liebler SS](#), [Brütsch R](#), Zhu Y, Felbor U, Sure U, Augustin HG, [Fischer A](#) (2010) Cerebral cavernous malformation protein CCM1 inhibits sprouting angiogenesis by activating DELTA-NOTCH signaling. **Proc Natl Acad Sci U S A** 107: 12640-12645.

[Brütsch R](#)*, [Liebler SS](#)*, [Wüstehube J](#)*, Bartol A, [Herberich SE](#), [Adam MG](#), [Telzerow A](#), Augustin HG, [Fischer A](#) (2010) Integrin cytoplasmic domain-associated protein-1 attenuates sprouting angiogenesis. **Circ Res** 107: 592-601.

2009

Couplier F, Le Crom S, Maro GS, Manent J, Giovannini M, Maciorowski Z, [Fischer A](#), Gessler M, Charnay P, Topilko P (2009) Novel features of boundary cap cells revealed by the analysis of newly identified molecular markers. **Glia** 57: 1450-1457.

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[Fischer A](#), Steidl C, Wagner TU, Lang E, Jakob PM, Friedl P, Knobloch KP, Gessler M (2007) Combined loss of Hey1 and HeyL causes congenital heart defects because of impaired epithelial to mesenchymal transition. **Circ Res** 100: 856-863.

Diez H, [Fischer A](#), Winkler A, Hu CJ, Hatzopoulos AK, Breier G, Gessler M (2007) Hypoxia-mediated activation of Dll4-Notch-Hey2 signaling in endothelial progenitor cells and adoption of arterial cell fate. **Exp Cell Res** 313: 1-9.

2006

Rutenberg JB, [Fischer A](#), Jia H, Gessler M, Zhong TP, Mercola M (2006) Developmental patterning of the cardiac atrioventricular canal by Notch and Hairy-related transcription factors. **Development** 133: 4381-4390.

2005

[Fischer A](#), Klattig J, Kneitz B, Diez H, Maier M, Holtmann B, Englert C, Gessler M (2005) Hey basic helix-loop-helix transcription factors are repressors of GATA4 and GATA6 and restrict expression of the GATA target gene ANF in fetal hearts. **Mol Cell Biol** 25: 8960-8970.

2004

Fischer A, Klamt B, Schumacher N, Glaeser C, Hansmann I, Fenge H, Gessler M (2004) Phenotypic variability in Hey2 ^{-/-} mice and absence of HEY2 mutations in patients with congenital heart defects or Alagille syndrome. **Mamm Genome** 15: 711-716.

Fischer A, Schumacher N, Maier M, Sendtner M, Gessler M (2004) The Notch target genes Hey1 and Hey2 are required for embryonic vascular development. **Genes Dev** 18: 901-911.

Schlaeger TM, Schuh A, Flitter S, Fischer A, Mikkola H, Orkin SH, Vyas P, Porcher C (2004) Decoding hematopoietic specificity in the helix-loop-helix domain of the transcription factor SCL/Tal-1. **Mol Cell Biol** 24: 7491-7502.

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Popp H, Kalb R, Fischer A, Lobitz S, Kokemohr I, Hanenberg H, Schindler D (2003) Screening Faconi anemia lymphoid cell lines of non-A, C, D2, E, F, G subtypes for defects in BRCA2/FANCD1. **Cytogenet Genome Res** 103: 54-57.

Van Wayenbergh R, Taelman V, Pichon B, Fischer A, Kricha S, Gessler M (2003) Identification of BOIP, a novel cDNA highly expressed during spermatogenesis that encodes a protein interacting with the orange domain of the hairy-related transcription factor HRT/Hey1 in Xenopus and mouse. **Dev Dyn** 228: 716-725.

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Gessler M, Knobloch KP, Helisch A, Amann K, Schumacher N, Rohde E, Fischer A, Leimeister C (2002) Mouse gridlock: no aortic coarctation or deficiency, but fatal cardiac defects in Hey2 ^{-/-} mice. **Curr Biol** 12: 1601-1604.

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Leimeister C, Dale K, Fischer A, Klamt B, Hrabe de Angelis M, Radtke F, McGrew MJ, Pourquie O, Gessler M (2000) Oscillating expression of c-Hey2 in the presomitic mesoderm suggests that the segmentation clock may use combinatorial signaling through multiple interacting bHLH factors. **Dev Biol** 227: 91-103.

Reviews, Editorials, Books and Book Chapters

2011

Fischer A, Schremmer C (2011) Physiologie Band 6, Herz und Kreislauf, 3./4. Auflage, MEDI-LEARN Verlag, Marburg.

2009

Fischer A, Augustin H (2009) Eine verhängnisvolle Affäre - Krebszellen gehen mit Blutgefäßen eine unglückselige Liaison ein – eine Beziehung, die sich therapeutisch nutzen lässt. Ruperto Carola, 2/2009, Universität Heidelberg. Universitätsverlag Winter GmbH Heidelberg.

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Fischer A, Gessler M (2007) Delta-Notch--and then? Protein interactions and purposed modes of repression by Hes and Hey bHLH factors. *Nucleic Acids Res* 35: 4583-4596.

Fischer A, Gessler M (2007) Notch-Regulation der Herzentwicklung. *BIOspectrum* 13: 352-256.

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Fischer A, Gessler M (2003) Hey genes in cardiovascular development. *Trends Cardiovasc Med* 13: 221-226.

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Fischer A, Leimeister C, Winkler C, Schumacher N, Klamt B, Elmasri, H, Steidl, C, Maier M, Kobeloch KP, Amann K, Helisch A, Sendtner M, Gessler M (2002) Hey bHLH factors in cardiovascular development. *Cold Spring Harb Symp Quant Biol.* 67: 63-70.