

Curriculum Vitae

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Molecular, Cell and Developmental Biology
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Personal Information

Born 1975, Kristianstad, Sweden.
Married
One child born, 2005.

Current Position

Post Doc in Dr Hanna Mikkola's Laboratory,
Molecular, Cell and Developmental Biology
Institute for Stem Cell Biology and Medicine,
University of California, Los Angeles, UCLA

Education

PhD in Molecular Medicine and Gene Therapy, Lund University, Sweden, 2007.
Master of Biomedical Sciences, 2002, Lund University, Sweden.

Grants

The Swedish Research Council, Post-doctoral fellowship 2 years, 2007.
Research grant from Lars Hiertas foundation, 40 000 SEK, 2006
Research grant from Kungliga Fysiografiska Sällskapet Lund: 40 000 SEK, 2004
Travel grant from Maggie Stephens Medical Research Foundation: 8000 SEK, 2005.
Travel grant from Kungliga Fysiografiska Sällskapet Lund: 14 000 SEK, 2004
Travel grant from Kungliga Fysiografiska Sällskapet Lund: 13 000 SEK, 2002.

Awards

Tegger's Foundation award, 2006.
New Investigator Award, The International Society for Experimental Hematology (ISEH) 2005. ISEH annual meeting, Glasgow, UK, First price, 1000 US dollar.
Travel Award granted by ISEH 2005. To travel to The Annual ISEH meeting, Glasgow UK, 1000 US dollar.
Travel Award granted by The American Society of Hematology(ASH) 2004, San Diego. 500 US dollar.
Travel Award granted by ASH 2002, Philadelphia, 500 US dollar.

International Meetings

International Society of Hematology (ISEH), Glasgow, July-August 2005. (Oral presentation).

American Society of Hematology (ASH), San Diego, CA, December 2004. (Poster).

American Society of Hematology (ASH), Philadelphia, PA, December 2002. (Oral presentation).

Teaching experience

Tutor for medical students, Lund University, Cell biology course, 2002

Tutor for biomedical students, Lund University, gene therapy course, 2003, 2004 and 2005.

Publications:

Magnusson M, Brun, CM, B, Miyake, N, Larsson, J, Ehinger, M, Björnsson, J, Wutz, A, Sigvardsson, M, Karlsson, S. HOXA10 is a critical regulator for hematopoietic stem cells and erythroid/megakaryocyte development. *Blood*. 2007 May 1;109(9):3687-96.

Magnusson M, Brun, CM, B, Lawrence, J, Karlsson, S
Hoxa9/hoxb3/hoxb4 compound null mice display severe hematopoietic defects. *Experimental Hematology*, In Press.

Brun AC *, Björnsson JM *, **Magnusson M** *, Larsson N, Leveen P, Ehinger M, Nilsson E, Karlsson S. *Hoxb4* deficient mice have normal hematopoietic development but exhibit a mild proliferation defect in hematopoietic stem cells. *Blood*. 2004 Jun 1; 103(11): 4126-33. * **contributed equally to this work.**

Björnsson JM, Larsson N, Brun AC, **Magnusson M**, Andersson E, Lundström P, Larsson J, Repetowska E, Ehinger M, Humphries RK, Karlsson S.
Reduced proliferative capacity of hematopoietic stem cells deficient in Hoxb3 and Hoxb4. *Mol Cell Biol*. 2003 Jun;23(11):3872-83.

Miyake N, Brun AC, **Magnusson M**, Miyake K, Scadden DT, Karlsson S. Scadden, HOXB4-induced self-renewal of hematopoietic stem cells is significantly enhanced by p21 deficiency. *Stem Cells*. 2005 Oct 6.

Larsson, J*, Blank, U*, Klintman, J, **Magnusson, M**, Karlsson, S. Quiescence of hematopoietic stem cells and maintenance of the stem cell pool is not dependent on TGF- β signaling *in vivo* *Equal contribution. *Experimental Hematology*. 2005 33: 592-596.

Nilsson M, Ljungberg J, Richter J, Kiefer T, **Magnusson M**, Lieber A, Widegren B, Karlsson S, Fan X. Development of an adenoviral vector system with adenovirus serotype 35 tropism; efficient transient gene transfer into primary malignant hematopoietic cells. *J Gene Med*. 2004 Jun;6(6):631-41

X Fan, G Valdimarsdottir, J Larsson, A Brun, **M Magnusson**, S E Jacobsen, P ten Dijke, S Karlsson: Transient Disruption of Autocrine TGF- β Signaling Leads to Enhanced Survival and Proliferation Potential in Single Primitive Human Hemopoietic Progenitor Cells. *J Immunol* 2002 168: 755-762.

Blank, U, Karlsson, G, Moody, J, Utsugisawa, T, **Magnusson, M**, Singbrant, S, Larsson, J, Karlsson, S. Overexpression of Smad7 in hematopoietic stem cells leads to increased self-renewal *in vivo* by a Smad4 dependent mechanism. *Blood*. 2006 Aug 17.

Published abstracts

M. Magnusson, A. C. M. Brun, N. Miyake, E. Nilsson, J. Björnsson, S. Karlsson 2005. HOXA10 affects the fate of hematopoietic cells in a dose dependent manner. *Experimental Hematology*, 33(7) Supplement.

Mattias Magnusson, Jon Mar Björnsson, Ann C.M. Brun, Stefan Karlsson. 2002. The Stem Cell Pool in Hoxb4^{-/-} and Hoxb3/Hoxb4^{-/-} Mice Is Reduced Due to Insufficient Expansion in the Fetal Liver. *Blood*, volume 100, Issue 11, abstract 483.

Mattias Magnusson, Ann C.M. Brun, Noriko Miyake, Mats Ehinger, Eva Nilsson, Jon Mar Björnsson, Stefan Karlsson. 2004. High Levels of HoxA10 Severely Impair Erythroid Development In Vivo and Cause Lethal Anemia. *Blood*, volume 104, Issue 11, abstract 2773.

Ann C.M. Brun, **Mattias Magnusson**, Noriko Miyake, Eva Nilsson, Jon Mar Björnsson, Stefan Karlsson. 2004. HOXA10 Affects the Fate of Hematopoietic Progenitors and Stem Cells in a Concentration Dependent Manner. *Blood*, volume 104, Issue 11, abstract 3550.

Noriko Miyake, Ann C.M. Brun, **Mattias Magnusson**, David T. Scadden, Stefan Karlsson. 2004. Hematopoietic Stem Cell Expansion by HOXB4 Is Greatly Enhanced in p21 Deficient Stem Cells. *Blood*, volume 104, Issue 11, abstract 1668.

Ann C.M. Brun, Jon Mar Björnsson, **Mattias Magnusson**, Eva Nilsson, R. Keith Humphries, Stefan Karlsson 2003. HoxB4 KO Leads to Reduced Expression of Neighboring Hox-Genes, but Only a Mild Reduction of Hematopoietic Cellularity and Repopulating Capacity. *Blood*, volume 102, Issue 11, abstract 1237.