

CV Göran Karlsson, PhD

Born 21st May 1977, Arboga, Sweden.

Civil Status Married to Christine Karlsson

Position PostDoctoral fellow, Lund Strategic Center for Stem Cell Biology and Gene Therapy, Lund University, Sweden.

Education

2002-2007 PhD degree, Molecular Medicine and Gene Therapy, Lund University Hospital.
1997-2002 Master's degree in Biomedical Sciences, Lund University, Lund, Sweden.
2000-2001 Pharmacology 3H, University of Glasgow, United Kingdom.
1993-1996 High school, Science, Vasagymnasiet, Arboga, Sweden.

Associations

2005-2008 International Society of Experimental Hematology, Member in training.
2002-2007 National Research School in Genomics and Bioinformatics, full member.

Teaching and supervision

PhD student supervisor

2008-present Co-supervisor for Matilda Nifelt Hägerström.

Undergraduate student supervisor

2009-present Co-supervisor for Maria Dahl. Master Thesis at Keio University, Japan, Biomed Program.
2008-present Supervisor for Emma Larsson, Master Thesis, Molecular Biology program.
2008 Supervisor for Maria Dahl, Summer project, Biomedicine program.
2008 Supervisor for Maria Dahl, BSc Thesis, Biomedicine program.

Teaching

2008-2009 Course coordinator, Lund Research School in Stem Cell Biology Preparatory Program.
2007 Course coordinator, Biomedicine program, Lund University.
2005 PBL tutor, Biomedicine program, Lund University.

Awards

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| 2008 | Barncancerfonden postdoctoral award | 2 years |
| 2008 | International Society for Experimental Hematology | 500 USD |
| 2008 | International Society for Experimental Hematology | poster award |
| 2008 | Barrie Hesp scholarship on behalf of Ashley Cukier | 1000 USD |
| 2006 | International Society for Experimental Hematology | 500 USD |
| 2006 | Keystone Symposia Award | 1000 USD |
| 2005 | International Society for Experimental Hematology | poster award |

Project grants

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| 2006 | Kungliga Fysiografiska Sällskapet | 50000 SEK |
| 2005 | Kungliga Fysiografiska sällskapet | 30000 SEK |

Travel grants

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| 2008 | Barncancerfonden | 13000 SEK |
| 2007 | Kungliga Fysiografiska Sällskapet | 15000 SEK |
| 2006 | Barncancerfonden | 12000 SEK |
| 2006 | Svenska Sällskapet för Medicinsk Forskning | 21700 SEK |
| 2006 | Kungliga Fysiografiska Sällskapet | 14000 SEK |
| 2005 | Maggie Stephens stiftelse | 8000 SEK |
| 2005 | Barncancerfonden | 1700 SEK |

Invited speaker

- 2007 12th congress of the European Hematology Association, Vienna, Austria.
2005 XX Paolo Symposium, Helsinki, Finland.

Oral presentations

- 2008 International Society for Experimental Hematology, Boston, USA
2006 International Society for Experimental Hematology, Minneapolis, USA
2005 Ludwig Institute for Cancer Research, TGF- β meeting, Uppsala, Sweden
2006 CONSERT symposium, Leukerbad, Switzerland.

Other meetings attended

- 2008 Wilsede meeting XVII, Wilsede, Germany
2008 Keystone C3, Tumor Suppressors and stem cell biology, Vancouver, Canada
2006 Keystone G4 Stem Cells, Whistler, Canada.
2005 International Society for Experimental Hematology, Glasgow, UK.
2004 American Society of Hematology, Sand Diego, CA, USA.
2004 FUNCTIONAL GENOMICS – from birth to death, Gothenburg, Sweden.
2003 FUNCTIONAL GENOMICS - genome communication, Gothenburg, Sweden.
2003 Stem Cells: From Genetics to Cell Therapy, Örenäs Castle, Sweden.

Bibliography

Publications:

1. S Singbrant Söderberg, G Karlsson, S Karlsson (2009) *Complex and context dependent regulation of hematopoiesis by TGF- β superfamily signaling*. **ANN NY ACAD SCI**, in press
2. V Janzen, HE Flemming, T Riedt, G Karlsson, MJ Riese, CL Celso, G Reynolds, CD Milne, CJ Paige, S Karlsson, M Woo, DT Scadden (2008) *Stem cell responsiveness to exogenous signals limited by Caspase-3*, **Cell Stem Cell** Jun 5;2(6):584-94.
3. G Karlsson and S Karlsson (2008) *Stem cell regulation and host defense: The logic and the paradox*. **Cell Stem Cell**, 2:1-2.
4. U Blank, G Karlsson, S Karlsson (2007). *Signaling pathways governing stem cell fate*. **Blood**, 111:492-503.
5. G Karlsson, U Blank, JL Moody, M Ehinger, S Singbrant, C-X Deng, S Karlsson (2007) *Smad4 is critical for hematopoietic stem cell self-renewal*. **J Exp Med** 204: 467-474.
6. JL Moody, S Singbrant, G Karlsson, U Blank, M Aspling, J Flygare, D Bryder, S Karlsson. (2007) *Endoglin is not critical for hematopoietic stem cell function, but modulates progenitor sensitivity to TGF- β and impacts erythroid development*. **Stem Cells** 11:2809-19.
7. U Blank, G Karlsson, JL Moody, T Utsugisawa, M Magnusson, S Singbrant, J Larsson, S Karlsson (2006) *Smad7 promotes self-renewal of hematopoietic stem cells in vivo*. **Blood** 108:4246-4254.
8. S Singbrant, JL Moody, U Blank, G Karlsson, A Zwissjen, S Karlsson (2006) *Smad5 is dispensable for adult hematopoiesis*. **Blood** 108:3707-12.
9. G Karlsson, Y Liu, J Larsson, M-J Goumans, J-S Lee, S S Thorgeirsson, M Ringnér, S Karlsson. (2005) *Gene expression profiling demonstrates that TGF- β 1 signals exclusively through receptor complexes involving Alk5 and identifies targets of TGF- β signaling*. **Physiol Genomics** 21:396-403.

Published abstracts:

1. G Karlsson, U Blank, JL Moody, M Ehinger, S Singbrant, C-X Deng, S Karlsson (2006) *A critical role for Smad4 in the regulation of hematopoietic stem cells*. **Experimental Hematology** 34 (9): 41-41 27.
2. JL Moody, S Singbrant, G Karlsson, U Blank, M Aspling, J Flygare, J Larsson, D Bryder, S Karlsson (2006) *Alteration of endoglin expression does not influence hematopoietic stem cell function, but modulates progenitor sensitivity to TGF- β and negatively impacts erythroid development*. **Experimental Hematology** 34 (9):58-58 91.
3. S Singbrant, JL Moody, U Blank, G Karlsson, A Zwijsen, L Umans, S Karlsson (2006) *Smad5 is dispensable for adult murine hematopoiesis*. **Experimental Hematology** 34 (9): 42-42 28.
4. G Karlsson, U Blank, JL Moody, S Singbrant, T Utsugisawa, S Karlsson (2005) *Smad4 deficient hematopoietic stem cells have impaired repopulation capacity*. **Experimental Hematology** 33 (7): 92-92 208.
5. G Karlsson, Y Liu, M-J Goumans, J Larsson, J-S Lee, SS Thorgeirsson, M Ringnér, S Karlsson (2004) *Global gene expression analysis demonstrates that transforming growth factor β 1 signals exclusively through receptor complexes involving TGF- β receptor I and identifies numerous targets of TGF- β signaling*. **Blood** 104 (11): 598A-598A 2178.