

# CV

## Sofie Singbrant Söderberg

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### Personal

Born 12 April 1977 in Åhus, Sweden  
Family Daughter Tilde, born 2007 and husband Simon Söderberg

### Education

2003- PhD studies at the Dept. of Molecular Medicine and Gene therapy, Lund University, Sweden. Supervisor: Stefan Karlsson  
2002-2003 Biomedical Research school, Lund University, Sweden  
1997-2002 Master's degree in Chemistry (Biomedical Chemistry program 160p), University of Kalmar (HiK), Sweden, including a master project performed at the University of Queensland, Brisbane, Australia  
1996-1997 Spanish studies, Universidad del Pais Vasco, Vitoria and La Universidad Complutense de Madrid, Spain  
1993-1996 High school Natural Sciences, Kristianstad, Sweden

### Performed Projects

2003 - PhD project: "The role of BMP-signaling in hematopoiesis" Supervisor: Stefan Karlsson, Dept. of Molecular Medicine and Gene Therapy, Lund University, Sweden.  
2003 - 20w "Immunohistochemical characterization of cytokine and chemokine expression profiles in human lung tissue" Supervisor: Thomas Fehniger, AstraZeneca R&D, Lund, Sweden.  
2003 - 10w "Optimization of detection of *Helicobacter pylori* and other pathogens in bile" Supervisor: Waleed Abu Al-Soud, Dept. Medical Microbiology, Lund University, Sweden.  
2002 - 20w "Characterization of a novel isoform of the transcription factor JunD involved in the development of dyskinesia in L-DOPA treated 6-OHDA-lesioned rats" Supervisor: Angela Cenci Nilsson, Dept. Physiological Sciences, Lund University, Sweden.  
2002 - 20w "Construction of constitutively active  $\alpha_{1B}$ -adrenoceptor for studies of the inhibitory function of TIA – Inverse agonist or antagonist?" Supervisor: Richard Lewis, University of Queensland, Australia (Swedish supervisor: Ian Nicholls, HiK)  
2001 - 10w "Diagnostic of breast tumor cells through PCR of a biotin labeled polynucleotide with binding ability to an avidin-fused EGF-receptor ligand". Supervisor: Anki Kock-Schmidt, Dept. Chemistry and Biomedical Sciences, HiK. Sweden  
2001 - 10w "Expression of genetically engineered myosin molecules" Supervisor: Alf Månsson, Michael Lindberg, Dept. Chemistry and Biomedical Sciences, HiK. Sweden

Methodology including bioinformatics, recombinant DNA-techniques, PCR, RT-PCR, ELISA, EMSA, immunohistochemistry, Western blotting, flow cytometry, culturing of cells and bacteria, mouse studies

## **Working experience & Commission of Trust**

- 2003-2005 Moderator in the EU-project "Science and Society" run in Sweden by the Royal Academy of Engineering
- 2000-2001 Head of the International Committee, and board member of the Student Union. At the same time employed by the International Office (part time) University of Kalmar, Sweden

## **Attended meetings**

- 2008 International Society for Experimental Hematology, Boston, USA (poster)
- 2007 Ludwig Institute for Cancer Research, TGF-b meeting, Uppsala, Sweden (oral presentation)
- 2006 International Society for Experimental Hematology, Minneapolis, USA (oral presentation och poster)
- 2005 International Society for Experimental Hematology, Glasgow, Scotland (poster)
- 2005 Ludwig Institute for Cancer Research, TGF-b meeting, Uppsala, Sweden

## **Teaching**

- 2007 Co-supervisor of undergraduate student Gudrun Eiriksdottir (10p project)
- 2004-2006 PBL tutor at gene therapy course, Biomedicine program, Lund University
- 2005-2006 Tutor in practical course in histology, Medicine program, Lund University

## **Grants**

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|-----------|---|-------------|
| 2008      | The Tegger Foundation (Post-doc grant)                        | 250 000 SEK |
| 2008      | Maggie Stephens Foundation for Medical Science (travel grant) | 13 000 SEK  |
| 2006      | The Royal Physiographical Society (project grant)             | 50 000 SEK  |
| 2006      | The Medical Faculty Research Committee (travel grant)         | 5 500 SEK   |
| 2006      | The Blood Cancer Foundation (travel grant)                    | 6 100 SEK   |
| 2005      | The Medical Faculty Research Committee (travel grant)         | 2 200 SEK   |
| 2002-2003 | Biomedical Research School, Lund University (personal grant)  | 70 000 SEK  |

## **Associations**

International Society of Experimental Hematology, member in training

## **Reference**

Stefan Karlsson Ph.D., M.D.

Dep. of Molecular Medicine and Gene Therapy

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# Publication list

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## Publications

1. *Complex and context dependent regulation of hematopoiesis by TGF-beta superfamily signaling.* [Singbrant Söderberg S](#), Karlsson G, Karlsson S. *Ann NY Acad Sci.* 2009, In print
2. *Endoglin is not critical for hematopoietic stem cell engraftment and reconstitution but regulates adult erythroid development.* Moody J.L, [Singbrant S](#), Karlsson G, Blank U, Aspling M, Flygare J, Bryder D, Karlsson S. *Stem Cells* 2007 Nov;25 (11):2809-19
3. *Smad4 is critical for self-renewal of hematopoietic stem cells.* Karlsson G, Blank U, Moody J.L, Ehinger M, [Singbrant S](#), Deng CX, Karlsson S. *J Exp Med.* 2007 Mar 19;204 (3):467-74.
4. *Smad7 promotes self-renewal of hematopoietic stem cells in vivo.* Blank U, Karlsson G, Moody J.L, Utsugisawa T, Magnusson M, [Singbrant S](#), Larsson J, Karlsson S. *Blood* 2006 Dec 15;108 (13):4246-54
5. *Smad5 is dispensable for adult murine hematopoiesis.* [Singbrant S](#), Moody J.L, Blank U, Karlsson G, Zwijsen A, Umans L, Karlsson S. *Blood* 2006 Dec 1;108 (12):3707-12

## Published abstracts

1. *Enforced expression of c-Ski in adult murine hematopoiesis promotes myeloid differentiation, revealing an important role for c-Ski in governing hematopoietic cell fate options.* [Singbrant S](#), Moody J.L, Karlsson G, Miyazono K, Karlsson S. *Experimental Hematology* 36:7 Supplement 1, July 2008 (Poster at ISEH 2008)
2. *Smad5 is dispensable for adult murine hematopoiesis.* [Singbrant S](#), Moody J.L, Blank U, Karlsson G, Zwijsen A, Umans L, Karlsson S. *Experimental Hematology* 34:9 Supplement 1, September 2006 (Oral and poster at ISEH 2006)
3. *Targeted disruption of Smad4 results in impaired repopulation of hematopoietic stem cells.* Karlsson G, Blank U, Moody J.L, Ehinger M, [Singbrant S](#), Karlsson S. *Experimental Hematology* 34:9 Supplement 1, September 2006
4. *Endoglin is not critical for hematopoietic stem cell function but modulates progenitor sensitivity to TGF-b and impacts erythroid development.* Moody J.L, [Singbrant S](#), Karlsson G, Blank U, Aspling M, Flygare J, Bryder D, Karlsson S. *Experimental Hematology* 34:9 Supplement 1, September 2006
5. *Characterization of hematopoiesis in the progeny of Smad5 deficient hematopoietic stem cells.* [Singbrant S](#), Blank U, Moody J.L, Karlsson S. *Experimental Hematology* 33:7 Supplement 1, July 2005 (Poster at ISEH 2005)
6. *Smad4 deficient hematopoietic stem cells have impaired repopulation capacity.* Karlsson G, Blank U, Moody J. L, [Singbrant S](#), Utsugisawa T, Karlsson S. *Experimental Hematology* 33:7 Supplement 1, July 2005