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Research

My research focus is on preeclampsia. Based on findings from protein- and gene array studies, free fetal hemoglobin has been shown to be a potential new predictive- and diagnostic marker for preeclampsia. We are now focusing on a new potential treatment for preeclampsia based on a free hemoglobin scavenger, alpha-1-microglobulin (A1M).

Qualifications

Obstetrics, asjckhasjkdhsjkdhj, Faculty of Medicine

Employment

Head of office, Supervisor, Professor

Obstetrics and Gynaecology (Lund)
Lund University
Lund, Sweden
2015 Sept 21 → present

Project manager

Unit for translational obstetric research
Lund University
Sweden
2021 Jan 8 → present

Member of Strategic Research Area

EpiHealth: Epidemiology for Health
Lund University
Malmö, Sweden
2021 Jan 27 → present

Research output

Building bridges for empowerment and informed decision-making: A qualitative study of midwives' reflections on how to optimise contraceptive counselling for immigrant women in Sweden

Kolak, M., Agardh, A., Hansson, S. R., Rubertsson, C. & Ragnar, M. E., 2026 Feb 27, In: PLOS ONE. 21, 2, e0340883.

Evaluating a smartphone application to monitor blood pressure in normotensive pregnancies, high-risk pregnancies and women with preeclampsia: Prospective Longitudinal Feasibility Study

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Urban air pollution disrupts placental microarchitecture and shifts hofbauer cells towards a pro-inflammatory state

Erlandsson, L., Hirschmugl, B., Hansson, E., Mercnik, M. H., Wadsack, C. & Hansson, S. R., 2026 Feb, In: Journal of Environmental Sciences (China). 160, p. 124-134 11 p.

Author Reply

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Economic Impact of Severe Early-Onset Foetal Growth Restriction: A Multicentre Prospective Cohort Study

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Are all vessels the same? Rethinking vascular heterogeneity across vessel types and sizes

Jälmy, M., Camilla, E., Lykou, D., Karampas, G., Erlandsson, L., Hansson, S. R. & Piani, F., 2025 Dec, In: Hypertension Research. 48, 12, p. 3317-3318 2 p.

Response to Habibi et al. on 'Long-term blood pressure dysregulation after preeclampsia': toward integrated vascular profiling

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Association between plasma interferon- γ levels and preeclampsia in pregnant women screened for tuberculosis infection

Walles, J., Winqvist, N., Hansson, S. R., Sturegård, E., Baqir, H., Kjerstadius, T., Schön, T. & Björkman, P., 2025 Aug, In: Clinical Microbiology and Infection. 31, 8, p. 1394-1397 4 p.

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The unintended consequences of modernity: Pollution and its effect on reproductive, maternal and fetal health

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Christopher Redman

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Direct MUSA features of adenomyosis impact live birth rates after first in vitro fertilization / intracytoplasmic sperm injection treatment

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Indirect MUSA features of adenomyosis are associated with reduced chances of live birth after first in vitro fertilization treatment

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Preliminary evidence that blocking the uptake of placenta-derived preeclamptic extracellular vesicles protects the vascular endothelium and prevents vasoconstriction

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Spencer, R., Maksym, K., Hecher, K., Maršál, K., Figueras, F., Ambler, G., Whitwell, H., Nené, N. R., Sebire, N. J., Hansson, S. R., Diemert, A., Brodzki, J., Gratacós, E., Ginsberg, Y., Weissbach, T., Peebles, D. M., Zachary, I., Marlow, N., Huertas-Ceballos, A. & David, A. L., 2023 Sept 15, In: Journal of Clinical Investigation. 133, 18, e169199.

Maternal Serum Concentrations of Per- and Polyfluoroalkyl Substances in Early Pregnancy and Small for Gestational Age in Southern Sweden

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Comparing the results from a Swedish pregnancy cohort using data from three automated placental growth factor immunoassay platforms intended for first-trimester preeclampsia prediction

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Ex vivo dual perfusion of an isolated human placenta cotyledon: Towards protocol standardization and improved inter-centre comparability

Schneider, H., Albrecht, C., Ahmed, M. S., Broekhuizen, M., Aengenheister, L., Buerki-Thurnherr, T., Danser, A. H. J., Gil, S., Hansson, S. R., Greupink, R., Lewis, R. M., Markert, U. R., Mathiesen, L., Powles-Glover, N., Wadsack, C. & Brownbill, P., 2022 Aug, In: *Placenta*. 126, p. 83-89 7 p.

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Decision-making during obstetric emergencies: A narrative approach

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Immigrant women's perspectives on contraceptive counselling provided by midwives in Sweden

Kolak, M., Löfgren, C., Hansson, S. R., Rubertsson, C. & Agardh, A., 2022, In: *Sexual and Reproductive Health Matters*. 30, 1

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The experience of provided information and care during pregnancy and postpartum when diagnosed with preeclampsia: A qualitative study

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Association of Maternal Regulatory Single Nucleotide Polymorphic CD99 Genotype with Preeclampsia in Pregnancies Carrying Male Fetuses in Ethiopian Women

Kelemu, T., Erlandsson, L., Seifu, D., Abebe, M., Teklu, S., Storry, J. R. & Hansson, S. R., 2020 Aug 14, In: International Journal of Molecular Sciences. 21, 16

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Polymorphism in killer cell immunoglobulin-like receptors and human leukocyte antigen-c and predisposition to preeclampsia in Ethiopian pregnant women population

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Dedifferentiation of serous ovarian cancer from cystic to solid tumors is associated with increased expression of mRNA for urokinase plasminogen activator (uPA), its receptor (uPAR) and its inhibitor (PAI-1)

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Hoffman, B. J., Hansson, S. R., Mezey, É. & Palkovits, M., 1998 Jul, In: Frontiers in Neuroendocrinology. 19, 3, p. 187-231 45 p.

Serotonin transporter messenger RNA in the developing rat brain: Early expression in serotonergic neurons and transient expression in non-serotonergic neurons

Hansson, S. R., Mezey, É. & Hoffman, B. J., 1998 Jan 12, In: Neuroscience. 83, 4, p. 1185-1201 17 p.

Dopamine produced by the stomach may act as a paracrine/autocrine hormone in the rat

Mezey, É., Eisenhofer, G., Hansson, S., Hunyady, B. & Hoffman, B. J., 1998, In: Neuroendocrinology. 67, 5, p. 336-348

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Borgfeldt, C., Casslén, B., Liu, C. L., Hansson, S., Lecander, I. & Åstedt, B., 1998, In: International Journal of Cancer. 79, 6, p. 588-595 8 p.

The Serotonin Transporter and the Vesicular Monoamine Transporters During Development

Hansson, S. R., 1998, 192 p.

Expression of the CB₁ and CB₂ receptor messenger RNAs during embryonic development in the rat

Buckley, N. E., Hansson, S., Harta, G. & Mezey, É., 1997 Nov 12, In: Neuroscience. 82, 4, p. 1131-1149 19 p.

Dopaminergic characteristics of isolated parietal cells from rats

Hunyady, B., Hoffman, B. J., Eisenhofer, G., Hansson, S. R. & Mezey, É., 1997, In: Journal of Physiology Paris. 91, 3-5, p. 247-256 10 p.

A novel nonneuronal catecholaminergic system: Exocrine pancreas synthesizes and releases dopamine

Mezey, É., Eisenhofer, G., Harta, G., Hansson, S., Gould, L., Hunyady, B. & Hoffman, B. J., 1996 Sept 17, In: Proceedings of the National Academy of Sciences of the United States of America. 93, 19, p. 10377-10382

Urokinase plasminogen activator (u-PA) in serous ovarian tumors. Translocation of mRNA expression from the epithelium in benign and well differentiated to the stroma in poorly differentiated tumors

Caçşlén, B., Liu, C. L., Martinsson, G., Hansson, S., Lecander, I. & Astedt, B., 1996, p. 115-115. 1 p.

Awards

The role of placenta-derived vesicles in endothelial dysfunction in preeclampsia—new mechanisms of increased risk for long-term cardiovascular disease and stroke risk

Hansson, S. (PI)

The Swedish Heart Lung Foundation: SEK1,200,000.00

2024/01/01 → 2026/12/31

Projects

Ambient air pollution and the risk of developing pre-eclampsia in Scania, Sweden: a prospective cohort study

Mandakh, Y. (Research student), Malmqvist, E. (Supervisor), Isaxon, C. (Assistant supervisor), Hansson, S. (Assistant supervisor), Oudin, A. (Assistant supervisor) & Rignell-Hydbom, A. (Assistant supervisor)

2018/09/05 → 2023/01/27

Cardiovascular risk factors during pregnancy: Mechanisms explaining utero-placental, fetal and maternal cardiovascular function in normal and complicated pregnancies

Hedström, E. (PI), Hansson, S. (PI), Ley, D. (PI), Morsing, E. (PI) & Liuba, P. (PI)

2015/02/01 → ...

Contraceptive counselling for immigrant women provided by midwives in Sweden

Kolak, M. (Research student), Agardh, A. (Supervisor), Rubertsson, C. (Assistant supervisor) & Hansson, S. (Assistant supervisor)

2018/02/01 → 2024/12/06

Decision-making during obstetric emergencies

Raoust, G. (Research student), Hansson, S. (Supervisor), Bergström, J. (Assistant supervisor) & Amer-Wählin, I. (Assistant supervisor)

Gravida kvinnor och smutsig luft

Hansson, S. (Researcher) & Isaxon, C. (Researcher)

Swedish Council for Working Life and Social Research (Forte)

2017/01/01 → ...

Gravida kvinnor och smutsig luft—när det vi andas kan bli farligt

Malmqvist, E. (PI), Isaxon, C. (PI), Hansson, S. (PI), Familiari, M. (PI) & Sandelin, A. (PI)

Luffföroreningar inomhus och utomhus- effekter av exponering för gravida kvinnor i Afrika

Malmqvist, E. (PI), Isaxon, C. (PI), Hansson, S. (PI), Winqvist, N. (PI), Björkman, P. (PI) & Saxne Jöud, A. (PI)

Minskning och tidig diagnos av anastomosläckage efter tarmkirurgi för gynekologisk cancer

Teurneau-Hermansson, V. (Research student), Asp, M. (Assistant supervisor) & Hansson, S. (Supervisor)

2024/03/01 → 2032/03/01

omics approach to characterize different phenotypes of preeclampsia and fetal growth restriction
Youssef, L. (PI) & Hansson, S. (Supervisor)

PE in A1Mko: Pathological findings in A1M ko/STOX-1 preeclampsia: mouse-model study
Aleksenko, L. (PI), Erlandsson, L. (Assistant supervisor) & Hansson, S. (Supervisor)
European Commission - övriga program, ej FP7
2017/02/20 → ...

The association between air pollution and preeclampsia
Malmqvist, E. (PI), Hansson, S. (PI), Isaxon, C. (PI), Familari, M. (PI) & Sandelin, A. (PI)
2015/11/01 → 2018/10/31

The involvement of cell-free foetal haemoglobin in the inflammatory and oxidative tissue damage in preeclampsia: towards effective biomarkers and new treatment
Hansson, S. (PI)
Swedish Research Council
2019/01/01 → 2022/12/31

The role of maternal TB infection for pregnancy and infant health outcomes – a long-term prospective cohort study
Björkman, P. (PI), Winqvist, N. (Col), Jansson, M. (Col), Sturegård, E. (Col), Hansson, S. (Col) & Walles, J. (Research student)
2015/11/02 → 2021/12/31

The role of placenta-derived vesicles in endothelial dysfunction in preeclampsia—new mechanisms of increased risk for long-term cardiovascular disease and stroke risk
Hansson, S. (PI)
The Swedish Heart Lung Foundation
2024/01/01 → 2026/12/31

The roll of oxidative stress and endothelial dysfunction in preeclampsia -short and long term consequences
Jälmy, M. (Research student), Hansson, S. (Supervisor), Erlandsson, L. (Assistant supervisor) & Wingren, C. (Assistant supervisor)

What is the importance of exposure to endocrine disruptors and paracetamol during pregnancy for both maternal and fetal/child health?
Rylander, L. (Researcher), Broberg, K. (Researcher), Lindh, C. (Researcher), Hansson, S. (Researcher), Källén, K. (Researcher), Mattsson, K. (Researcher), Saxne Jöud, A. (Researcher) & Nielsen, C. (Researcher)
2015/01/01 → ...