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Forskning

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, asjkhasjkdhsjkdhj, Medicinska fakulteten

Employment

Avdelningschef, Handledare, Professor

Obstetrik och gynekologi, Lund

Lunds universitet

Lund, Sverige

2015 sep. 21 → present

Projektledare

Enheten för translationell obstetrisk forskning

Lunds universitet

Sverige

2021 jan. 8 → present

Medlem i Strategiskt forskningsområde

EpiHealth: Epidemiology for Health

Lunds universitet

Malmö, Sverige

2021 jan. 27 → present

Research output

Machine learning prediction of live birth after IVF using the morphological uterus sonographic assessment group features of adenomyosis

Alson, S., Björnsson, O., Henic, E., Hansson, S. & Sladkevicius, P., 2026 feb. 2, I: Scientific Reports. 16, 4324.

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Author Reply

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

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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., I: Clinical Microbiology and Infection. 31, 8, s. 1394-1397 4 s.

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

Ward, G., Correia Watts, M. P. & Hansson, S. R., 2025 juni, I: Pregnancy Hypertension. 40, 101204.

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Christopher Redman

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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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The predictive value of MUSA features of adenomyosis on live birth is poor, using a machine learning algorithm

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

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Spatial transcriptomics of human placentas reveal distinct RNA patterns associated with morphology and preeclampsia

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Maternal serum vitamin D level in early pregnancy and risk for preeclampsia: A casecontrol study in Southern Sweden

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Women's experiences of preeclampsia as a condition of uncertainty: a qualitative study

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Maternal and fetal haemopexin and α 1-microglobulin concentrations in pre-eclamptic IVF pregnancies according to presence of corpus luteum at embryo transfer

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Tuberculosis Infection in Women of Reproductive Age: A Cross-sectional Study at Antenatal Care Clinics in an Ethiopian City

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

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The Serotonin Transporter and the Vesicular Monoamine Transporters During Development

Hansson, S. R., 1998, 192 s.

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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
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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)

Hjärt-Lungfonden: 1 200 000,00 kr

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. (Forskarstuderande), Malmqvist, E. (Handledare), Isaxon, C. (Biträdande handledare), Hansson, S. (Biträdande handledare), Oudin, A. (Biträdande handledare) & Rignell-Hydbom, A. (Biträdande handledare)

2018/09/05 → 2023/01/27

Betydelsen av fritt fosterhemoglobin vid inflammation och oxidativ stress som orsak till vävnadsskadande mekanismer vid preeklampsi: nya biomarkörer och möjliggörande av en ny effektiv behandling

Hansson, S. (PI)

Swedish Research Council

2019/01/01 → 2022/12/31

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 → ...

Decision-making during obstetric emergencies

Raoust, G. (Forskarstuderande), Hansson, S. (Handledare), Bergström, J. (Biträdande handledare) & Amer-Wählin, I. (Biträdande handledare)

Gravida kvinnor och smutsig luft

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

Forte, Forskningsrådet för hälsa, arbetsliv och välfärd

2017/01/01 → ...

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

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

Luftföroreningar 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. (Forskarstuderande), Asp, M. (Biträdande handledare) & Hansson, S. (Handledare)

2024/03/01 → 2032/03/01

omics approach to characterize different phenotypes of preeclampsia and fetal growth restriction

Youssef, L. (PI) & Hansson, S. (Handledare)

PE in A1Mko: Pathological findings in A1M ko/STOX-1 preeclampsia: mouse-model study

Aleksenko, L. (PI), Erlandsson, L. (Biträdande handledare) & Hansson, S. (Handledare)

European Commission - övriga program, ej FP7

2017/02/20 → ...

Preventivmedelsrådgivning för invandrarkvinnor given av barnmorskor i Sverige

Kolak, M. (Forskarstuderande), Agardh, A. (Handledare), Rubertsson, C. (Biträdande handledare) & Hansson, S. (Biträdande handledare)
2018/02/01 → 2024/12/06

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 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. (Forskarstuderande)
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)
Hjärt-Lungfonden
2024/01/01 → 2026/12/31

The roll of oxidative stress and endothelial dysfunction in preeclampsia -short and long term consequences

Jälmy, M. (Forskarstuderande), Hansson, S. (Handledare), Erlandsson, L. (Biträdande handledare) & Wingren, C. (Biträdande handledare)

What is the importance of exposure to endocrine disruptors and paracetamol during pregnancy for both maternal and fetal/child health?

Rylander, L. (Forskare), Broberg, K. (Forskare), Lindh, C. (Forskare), Hansson, S. (Forskare), Källén, K. (Forskare), Mattsson, K. (Forskare), Saxne Jöud, A. (Forskare) & Nielsen, C. (Forskare)
2015/01/01 → ...