

Stefan Hansson
Medicinska fakulteten
Obstetrik och gynekologi, Lund
Besöksadress:
Sölvegatan 19
Rm BMC C1416b
22184
Lund

Sverige

Postadress:

Box 117

22100

Lund

Sverige

Besöksadress:

Kvinnokliniken, SUS

Rm BMC C1416b

Lund

Sverige

Postadress:

221 85

Lund

Sverige

E-post: stefan.hansson@med.lu.se, stefan.hansson@med.lu.se

Telefon: +46462223011, +46462223011

Mobil: +4640332976, +4640332976

Webbadress: <http://www.med.lu.se/>,

http://www.med.lu.se/plain/klinvetlund/obstetrik_och_gynekologiklinvet



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, Professor, Handledare

Obstetrik och gynekologi, Lund

Lunds universitet

Lund, Sverige

2015 sep. 21 → present

Forskargrupschef

Enheten för translationell obstetrisk forskning

Lunds universitet

Sverige

2021 jan. 8 → present

Professor

EpiHealth: Epidemiology for Health

Lunds universitet

Malmö, Sverige

2021 jan. 27 → present

Research output

Pregnancy Outcomes in Women Screened for Tuberculosis Infection in Swedish Antenatal Care

Wallis, J., Winqvist, N., Hansson, S. R., Sturegård, E., Baqir, H., Westman, A., Kjerstadius, T., Schön, T. & Björkman, P., 2024 jan., I: *Clinical Infectious Diseases*. 78, 1, s. 125-132 8 s.

Immigrant men 's perceptions and experiences of accompanying their partner for contraceptive counselling provided by midwives in Sweden- a qualitative study

Kolak, M., Agardh, A., Rubertsson, C., Hansson, S. R. & Ekstrand Ragnar, M., 2024, I: *PLoS ONE*. 19, 1, e0295796.

Predicting intensive care need in women with preeclampsia using machine learning—a pilot study

Edvinsson, C., Björnsson, O., Erlandsson, L. & Hansson, S. R., 2024, I: *Hypertension in Pregnancy*. 43, 1, 2312165.

Association between human chorionic gonadotropin (hCG) levels and adverse pregnancy outcomes: A systematic review and meta-analysis

Skogler, J., Moberg, T., Tancredi, L., Styrnisdóttir, L., Hedayati, E., Alarcon-Ruiz, C. A., Khamis, A., Persad, E., Iskandarani, G., Hansson, S. R. & Bruschetti, M., 2023 dec., I: *Pregnancy Hypertension*. 34, s. 124-137 14 s.

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

Erlandsson, L., Ohlsson, L., Masoumi, Z., Rehnström, M., Cronqvist, T., Edvinsson, L. & Hansson, S. R., 2023 dec., I: *Scientific Reports*. 13, 1, 18425.

Maternal PIGF and umbilical Dopplers predict pregnancy outcomes at diagnosis of early-onset fetal growth restriction

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 sep. 15, I: *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

Malm, E., Vilhelmsson, A., Högfeldt, H., Deshayes, I., Källén, K., Hansson, S. R., Lindh, C. H. & Rylander, L., 2023 sep., I: *Toxics*. 11, 9, 750.

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

Carlsson, Y., Sandström, A., Bergman, L., Conner, P., Hansson, S., Kublickas, M., Görmüş, U., Lindgren, P., Oleröd, G., Wikström, A. K. & Larsson, A., 2023 aug., I: *Acta Obstetrica et Gynecologica Scandinavica*. 102, 8, s. 1084-1091 8 s.

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

Bhalla, N., Franzén, L., Scheynius, A., Papadogiannakis, N., Hansson, S. R., Lager, S. & Ståhl, P. L., 2023 aug., I: *Placenta*. 139, s. 213-216 4 s.

Personality traits and decision-making styles among obstetricians and gynecologists managing childbirth emergencies

Raoust, G., Kajonius, P. & Hansson, S., 2023 apr. 5, I: *Scientific Reports*. 13, 1, 6 s., 5607.

Assessing erythroferrone and iron homeostasis in preeclamptic and normotensive pregnancies: A retrospective study

Masoumi, Z., Hansson, L. R., Hansson, E., Ahlm, E., Mezey, E., Erlandsson, L. & Hansson, S. R., 2023 mars 3, I: *Placenta*. 133, s. 10-18 9 s.

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

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Placental Changes and Neuropsychological Development in Children—A Systematic Review

Lodefalk, M., Chelislín, F., Patriksson Karlsson, J. & Hansson, S. R., 2023 feb., I: *Cells*. 12, 3, 435.

Gut Micro- and Mycobiota in Preeclampsia: Bacterial Composition Differences Suggest Role in Pathophysiology
Meijer, S., Pasquinelli, E., Renzi, S., Lavasani, S., Nouri, M., Erlandsson, L., Cavalieri, D. & Hansson, S. R., 2023, I: *Biomolecules*. 13, 2, 346.

Longitudinal change in cerebro-placental ratio (CPR) between 37 and 40 weeks of pregnancy is associated with non-reassuring fetal status and increased risk of cesarean section

Cancemi, A., Rial-Crestelo, M., Martinez, J., Giannone, M., Sánchez-Hoyo, B., Izquierdo-Sánchez, N., Cobos-Serrano, C., Matías-Ponce, S., Mayordomo-Gallardo, S., Hansson, S. R. & Figueras, F., 2023, I: *Journal of Maternal-Fetal and Neonatal Medicine*. 36, 1, 2191776.

Placenta-associated adverse pregnancy outcomes in women experiencing mild or severe hyperemesis gravidarum – a systematic review and meta-analysis

Moberg, T., Van der Veecken, L., Persad, E., Hansson, S. R. & Bruschetti, M., 2023, I: *BMC Pregnancy and Childbirth*. 23, 1, 375.

Intensive care patients with preeclampsia – Clinical risk factors and biomarkers for oxidative stress and angiogenic imbalance as discriminators for severe disease

Edvinsson, C., Hansson, E., Nielsen, N., Erlandsson, L. & Hansson, S. R., 2022 dec., I: *Pregnancy Hypertension*. 30, s. 88-94 7 s.

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., I: *Placenta*. 126, s. 83-89 7 s.

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

Hansson, T., Andersson, M. E., Ahlström, G. & Hansson, S. R., 2022 juni 28, I: *BMC Pregnancy and Childbirth*. 22, 1, 521.

Tuberculosis infection and stillbirth in Ethiopia —A prospective cohort study

Walles, J., Otero, L. G., Tesfaye, F., Abera, A., Jansson, M., Balcha, T. T., Sturegård, E., Winqvist, N., Hansson, S. R. & Björkman, P., 2022 apr., I: *PLoS ONE*. 17, 4, e0261972.

Decision-making during obstetric emergencies: A narrative approach

Raoust, G. M., Bergström, J., Bolin, M. & Hansson, S. R., 2022, I: *PLoS ONE*. 17, 1, s. 1-21 e0260277.

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

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

Prediction of Neonatal Respiratory Morbidity Assessed by Quantitative Ultrasound Lung Texture Analysis in Twin Pregnancies

Moreno-Espinosa, A. L., Hawkins-Villarreal, A., Coronado-Gutierrez, D., Burgos-Artizzu, X. P., Martínez-Portilla, R. J., Peña-Ramirez, T., Gallo, D. M., Hansson, S. R., Gratacòs, E. & Palacio, M., 2022, I: *Journal of Clinical Medicine*. 11, 16, 4895.

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

Walles, J., Tesfaye, F., Jansson, M., Balcha, T. T., Sturegård, E., Kefeni, M., Merga, G., Hansson, S. R., Winqvist, N. & Björkman, P., 2021 juli 15, I: *Clinical Infectious Diseases*. 73, 2, s. 203-210 8 s.

Intrauterine vertical SARS-CoV-2 infection: a case confirming transplacental transmission followed by divergence of the viral genome

Zaigham, M., Holmberg, A., Karlberg, M. L., Lindsjö, O. K., Jokubkiene, L., Sandblom, J., Strand, A. S., Andersson, O., Hansson, S. R., Nord, D. G. & Tannenberg, P., 2021 juli 1, I: *BJOG: An International Journal of Obstetrics & Gynaecology*. 128, 8, s. 1388-1394 7 s.

Association of prenatal ambient air pollution exposure with placental mitochondrial DNA copy number, telomere length and preeclampsia

Mandakh, Y., Oudin, A., Erlandsson, L., Isaxon, C., Hansson, S., Broberg, K. & Malmqvist, E., 2021, I: *Frontiers in Toxicology*. 3, s. 1-13 659407.

Conservative treatment in non-tubal ectopic pregnancy and predictors of treatment failure

Nedopekina, E., Escura, S., Cobo, T., Hansson, S. R., Martinez, J. M., Figueras, F. & López, M., 2021, I: *European Journal of Obstetrics and Gynecology and Reproductive Biology*. 257, s. 6-10 5 s.

Early Pregnancy Exposure to Ambient Air Pollution among Late-Onset Preeclamptic Cases Is Associated with Placental DNA Hypomethylation of Specific Genes and Slower Placental Maturation

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Human radical scavenger α 1-microglobulin protects against hemolysis in vitro and α 1-microglobulin knockout mice exhibit a macrocytic anemia phenotype

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Hypoxia-induced alpha-globin expression in syncytiotrophoblasts mimics the pattern observed in preeclamptic placentas

Masoumi, Z., Erlandsson, L., Hansson, E., Magnusson, M., Mezey, E. & Hansson, S. R., 2021, I: *International Journal of Molecular Sciences*. 22, 7, 3357.

Knockout of the radical scavenger α 1-microglobulin in mice results in defective bikunin synthesis, endoplasmic reticulum stress and increased body weight

Bergwik, J., Kristiansson, A., Welinder, C., Göransson, O., Hansson, S. R., Gram, M., Erlandsson, L. & Åkerström, B., 2021, I: *Free Radical Biology and Medicine*. 162

The effect of *Lactiplantibacillus plantarum* 299v together with a low dose of iron on iron status in healthy pregnant women: A randomized clinical trial

Axling, U., Önning, G., Martinsson Niskanen, T., Larsson, N., Hansson, S. R. & Hulthén, L., 2021, I: *Acta Obstetrica et Gynecologica Scandinavica*. 100, 9, s. 1602-1610

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

Andersson, M. E., Rubertsson, C. & Hansson, S. R., 2021, I: *European Journal of Midwifery*. 5, s. 1-9 9 s.

The roles of free iron, heme, haemoglobin, and the scavenger proteins haemopexin and alpha-1-microglobulin in preeclampsia and fetal growth restriction

Erlandsson, L., Masoumi, Z., Hansson, L. R. & Hansson, S. R., 2021, I: *Journal of Internal Medicine*. 290, 5, s. 952-968

Women with a history of recurrent pregnancy loss are a high-risk population for adverse obstetrical outcome: A retrospective cohort study

Roepke, E. R., Christiansen, O. B., Källén, K. & Hansson, S. R., 2021, I: *Journal of Clinical Medicine*. 10, 2, s. 1-12 12 s., 179.

Placental syncytiotrophoblast extracellular vesicles enter primary endothelial cells through clathrin-mediated endocytosis

Cronqvist, T., Erlandsson, L., Tannetta, D. & Hansson, S. R., 2020 okt., I: *Placenta*. 100, s. 133-141 9 s.

The Role of α 1-Microglobulin (A1M) in Erythropoiesis and Erythrocyte Homeostasis-Therapeutic Opportunities in Hemolytic Conditions

Kristiansson, A., Gram, M., Flygare, J., Hansson, S. R., Åkerström, B. & Storry, J. R., 2020 sep. 30, I: *International Journal of Molecular Sciences*. 21, 19, s. 1-21 7234.

Complicated COVID-19 in pregnancy: a case report with severe liver and coagulation dysfunction promptly improved by delivery

Ronnje, L., Länsberg, J-K., Vikhareva, O., Hansson, S. R., Herbst, A. & Zaigham, M., 2020 sep. 4, I: BMC Pregnancy and Childbirth. 20, 1, s. 511

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, I: International Journal of Molecular Sciences. 21, 16

Obstetric and intensive-care strategies in a high-risk pregnancy with critical respiratory failure due to COVID-19: A case report

Kolkova, Z., Bjurström, M. F., Länsberg, J-K., Svedas, E., Andrada, M., Hansson, S. R., Herbst, A. & Zaigham, M., 2020 juli, I: Case reports in women's health. 27, s. e00240

Urban PM2.5 Induces Cellular Toxicity, Hormone Dysregulation, Oxidative Damage, Inflammation, and Mitochondrial Interference in the HRT8 Trophoblast Cell Line

Nääv, Å., Erlandsson, L., Isaxon, C., Åsander Frostner, E., Ehinger, J., Elmer, E., Sporre, M., Kraiss, A., Strandberg, B., Lundh, T., Malmqvist, E. & Hansson, S., 2020 mars 12, I: Frontiers in Endocrinology. 11, 75.

Maternal Exposure to Ambient Air Pollution and Risk of Preeclampsia: A Population-Based Cohort Study in Scania, Sweden

Mandakh, Y., Rittner, R., Flanagan, E., Oudin, A., Isaxon, C., Familiari, M., Hansson, S. R. & Malmqvist, E., 2020 mars 7, I: International Journal of Environmental Research and Public Health. 17, 5

Cardiovascular effects of severe late-onset preeclampsia are reversed within six months postpartum

Kalapocharakos, G., Salehi, D., Steding-Ehrenborg, K., Andersson, M., Arheden, H., Hansson, S. R. & Hedström, E., 2020, I: Pregnancy Hypertension. 19, s. 18-24

Elucidating challenges and solutions in the maternal healthcare, identified by medical doctors in northern South Africa: a qualitative study

Olseén, C. J. V., Mothiba, T., Skaal, L., Hansson, S. R. & Berggren, V., 2020, I: The Pan African medical journal. 36, 376.

Exposure to wood smoke particles leads to inflammation, disrupted proliferation and damage to cellular structures in a human first trimester trophoblast cell line

Erlandsson, L., Lindgren, R., Nääv, Å., Kraiss, A. M., Strandberg, B., Lundh, T., Boman, C., Isaxon, C., Hansson, S. R. & Malmqvist, E., 2020, I: Environmental Pollution. 264, 114790.

Hemopexin and α_1 -microglobulin heme scavengers with differential involvement in preeclampsia and fetal growth restriction

Youssef, L., Erlandsson, L., Åkerström, B., Miranda, J., Paules, C., Crovetto, F., Crispi, F., Gratacos, E. & Hansson, S. R., 2020, I: PLoS ONE. 15, 9 September, e0239030.

Non-immune hydrops fetalis was rare in Sweden during 1997-2015, but cases were associated with complications and poor prognosis

Whybra, C., Källén, K., Hansson, S. R. & Gunnarsson, R., 2020, I: Acta Paediatrica, International Journal of Paediatrics. 109, 12, s. 2570-2577 8 s.

Per- and polyfluoroalkyl substances in early pregnancy and risk for preeclampsia: A case-control study in southern Sweden

Rylander, L., Lindh, C. H., Hansson, S. R., Broberg, K. & Källén, K., 2020, I: Toxics. 8, 2, 43.

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

Kelemu, T., Erlandsson, L., Seifu, D., Hansson, S. R., Abebe, M., Teklu, S., Girma, S., Traherne, J. A., Moffett, A. & Hansson, S. R., 2020, I: Journal of Reproductive Immunology. 141, 103169.

Pregnant alpha-1-microglobulin (A1M) knockout mice exhibit features of kidney and placental damage, hemodynamic changes and intrauterine growth restriction

Aleksenko, L., Åkerström, B., Hansson, E., Erlandsson, L. & Hansson, S. R., 2020, I: Scientific Reports. 10, 1, 20625.

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Longitudinal changes in plasma hemopexin and alpha-1-microglobulin concentrations in women with and without clinical risk factors for pre-eclampsia

Murtoniemi, K., Kalapotharakos, G., Vahlberg, T., Räikkönen, K., Kajantie, E., Hämmäläinen, E., Åkerström, B., Villa, P. M., Hansson, S. R. & Laivuori, H., 2019 dec. 1, I: PLoS ONE. 14, 12, e0226520.

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Exposure of trophoblast cells to fine particulate matter air pollution leads to growth inhibition, inflammation and ER stress

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Alpha-1 microglobulin as a potential therapeutic candidate for treatment of hypertension and oxidative stress in the STOX1 preeclampsia mouse model

Erlandsson, L., Ducat, A., Castille, J., Zia, I., Kalapotharakos, G., Hedström, E., Vilotte, J-L., Vaiman, D. & Hansson, S. R., 2019 juni 12, I: Scientific Reports. 9, 1, 8561.

The heme and radical scavenger α_1 -microglobulin (A1M) confers early protection of the immature brain following preterm intraventricular hemorrhage

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Preeclampsia is Associated with Sex-Specific Transcriptional and Proteomic Changes in Fetal Erythroid Cells

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Plasma Heme Scavengers Alpha-1-Microglobulin and Hemopexin as Biomarkers in High-Risk Pregnancies

Kalapotharakos, G., Murtoniemi, K., Åkerström, B., Hämmäläinen, E., Kajantie, E., Räikkönen, K., Villa, P., Laivuori, H. & Hansson, S. R., 2019, I: Frontiers in Physiology. 10, 300.

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Third-trimester conditional reference values for longitudinal fetal growth assessment

Basuki, T. R., Triunfo, S., Caradeux, J., Eixarch, E., Hansson, S., Gratacos, E. & Figueras, F., 2018 jan. 1, I: *Fetal Diagnosis and Therapy*. 43, 1, s. 34-39 6 s.

Cell free hemoglobin in the fetoplacental circulation: A novel cause of fetal growth restriction?

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Metabolic profiling and targeted lipidomics reveals a disturbed lipid profile in mothers and fetuses with intrauterine growth restriction

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