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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, 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

Christopher Redman

Staff, A. C., Hansson, S. & Smáráson, A. K., 2024 okt. 1, I: *Acta Obstetricia et Gynecologica Scandinavica*. 103, 10, s. 2112-2113 2 s.

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

Alson, S., Björnsson, O., Hansson, S., Henic, E. & Sladkevicius, P., 2024 sep. 15, I: *Ultrasound in obstetrics & gynecology : the official journal of the International Society of Ultrasound in Obstetrics and Gynecology*. 64, S1, s. 29 OC11.04.

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

Alson, S., Björnsson, O., Hansson, S., Henic, E. & Sladkevicius, P., 2024 sep. 9, I: *Ultrasound in obstetrics & gynecology : the official journal of the International Society of Ultrasound in Obstetrics and Gynecology*. 64, S1, s. 30 OC11.06.

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

Alson, S., Björnsson, O., Hansson, S., Henic, E. & Sladkevicius, P., 2024 sep. 9, I: *Ultrasound in obstetrics & gynecology : the official journal of the International Society of Ultrasound in Obstetrics and Gynecology*. 64, S1, s. 88-89 OP11.06.

High sperm deoxyribonucleic acid fragmentation index is associated with an increased risk of preeclampsia following assisted reproduction treatment

Stenqvist, A., Bungum, M., Pinborg, A. B., Bogstad, J., Englund, A. L., Grøndahl, M. L., Zedeler, A., Hansson, S. R. & Giwercman, A., 2024 aug. 8, (E-pub ahead of print) I: *Fertility and Sterility*.

Swedish maternity care professionals' perception of labor induction

Raoust, G., Hansson, S. R. & Kajonius, P., 2024 juni, I: *Midwifery*. 133, 103997.

Childhood atopic disorders in relation to placental changes-A systematic review and meta-analysis

Bakoyan, Z., Cao, Y., Hansson, S. R., Karlsson, J. P. & Lodefalk, M., 2024 maj, I: *Pediatric allergy and immunology : official publication of the European Society of Pediatric Allergy and Immunology*. 35, 5, s. 1-17 e14141.

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

Walles, 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.

Correlation of adenomyosis features to live birth rates after the first IVF/ICSI treatment, when using the revised Morphological Uterus Sonographic Assessment group definitions

Alson, S., Henic, E., Hansson, S. & Sladkevicius, P., 2024, I: *Acta Obstetricia et Gynecologica Scandinavica*. 103, 12, s. 2540-2553

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., Högföldt, 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

Malm, G., Lindh, C. H., Hansson, S. R., Källén, K., Malm, J. & Rylander, L., 2023 feb., I: *PLoS ONE*. 18, 2 February, e0281234.

Placental Changes and Neuropsychological Development in Children—A Systematic Review

Lodefalk, M., Chelslín, 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

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

Boutet, M. L., Youssef, L., Erlandsson, L., Hansson, E., Manau, D., Crispi, F., Casals, G. & Hansson, S., 2022, I: *Reproductive BioMedicine Online*. 45, 1, s. 135-45

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. & Tannenbergs, 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

Engström, K., Mandakh, Y., Garmire, L., Masoumi, Z., Isaxon, C., Malmqvist, E., Erlandsson, L. & Hansson, S., 2021, I: *Toxics*. 9, 12, s. 1-23 338.

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

Kristiansson, A., Bergwik, J., Alattar, A. G., Flygare, J., Gram, M., Hansson, S. R., Olsson, M. L., Storry, J. R., Allhorn, M. & Åkerström, B., 2021, I: Free Radical Biology & Medicine. 162

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, E., 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.

Study for Improving Maternal Pregnancy And Child outcomes (IMPACT): a study protocol for a Swedish prospective multicentre cohort study

Bergman, L., Sandström, A., Jacobsson, B., Hansson, S., Lindgren, P., Larsson, A., Imberg, H., Conner, P., Kublickas, M., Carlsson, Y. & Wikström, A. K., 2020, I: *BMJ Open*. 10, 9, e033851.

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

Murtoniemi, K., Kalapocharakos, 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.

Achieving orphan designation for placental insufficiency: annual incidence estimations in Europe

Spencer, R., Rossi, C., Lees, M., Peebles, D., Brocklehurst, P., Martin, J., Hansson, S. R., Hecher, K., Marsal, K., Figueras, F., Gratacos, E., David, A. L. & EVERREST Consortium, 2019 aug., I: BJOG: An International Journal of Obstetrics and Gynaecology. 126, 9, s. 1157-1167 11 s.

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

Familarì, M., Nääv, Å., Erlandsson, L., de Jongh, R. U., Isaxon, C., Strandberg, B., Lundh, T., Hansson, S. R. & Malmqvist, E., 2019 juli 18, I: PLoS ONE. 14, 7, e0218799.

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

Romantsik, O., Agyemang, A. A., Sveinsdóttir, S., Rutardóttir, S., Holmqvist, B., Cinthio, M., Mörgelin, M., Gumus, G., Karlsson, H., Hansson, S. R., Åkerström, B., Ley, D. & Gram, M., 2019 juni 7, I: Journal of Neuroinflammation. 16, 1, 122.

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

Masoumi, Z., Maes, G. E., Hertzen, K., Cortés-Calabuig, Á., Alattar, A. G., Hanson, E., Erlandsson, L., Mezey, E., Magnusson, M., Vermeesch, J. R., Familarì, M. & Hansson, S. R., 2019 apr. 25, I: International Journal of Molecular Sciences. 20, 8, 2038.

Altered Tryptophan Catabolism in Placentas From Women With Pre-eclampsia

Keaton, S. A., Heilman, P., Bryleva, E. Y., Madaj, Z., Krzyzanowski, S., Grit, J., Miller, E. S., Jälmy, M., Kalapotharakos, G., Racicot, K., Fazleabas, A., Hansson, S. R. & Brundin, L., 2019 apr. 1, I: International Journal of Tryptophan Research. 12

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

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

Reliability of recurrent pregnancy loss diagnosis coding in the Swedish national patient register: A validation study

Rasmak Roepke, E., Christiansen, O. B. & Hansson, S. R., 2019, I: Clinical Epidemiology. 11, s. 375-381 7 s.

The rate and perioperative mortality of caesarean section in Sierra Leone

Holmer, H., Kamara, M. M., Bolkan, H. A., Van Duinen, A., Conteh, S., Forna, F., Hailu, B., Hansson, S. R., Koroma, A. P., Koroma, M. M., Liljestrand, J., Lonnee, H., Sesay, S. & Hagander, L., 2019, I: BMJ Global Health. 4, 5, e001605.

An ecoimmunological approach to study evolutionary and ancient links between coagulation, complement and Innate immunity

Papareddy, P., Kasetty, G., Alyafei, S., Smeds, E., Salo-Ahen, O. M. H., Hansson, S. R., Egesten, A. & Herwald, H., 2018 dec. 31, I: Virulence. 9, 1, s. 724-737 14 s.

Neuroprotective dobutamine treatment upregulates superoxide dismutase 3, anti-oxidant and survival genes and attenuates genes mediating inflammation

Markus, T., Ley, D., Hansson, S. R., Wieloch, T. & Ruscher, K., 2018 mars 9, I: BMC Neuroscience. 19, 1, 9.

Caesarean section versus natural birth – an obstetrician examines a new review

Hansson, S., 2018 jan. 25, The Conversation.

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?

Brook, A., Hoaksey, A., Gurung, R., Yoong, E. E. C., Sneyd, R., Baynes, G. C., Bischof, H., Jones, S., Higgins, L. E., Jones, C., Greenwood, S. L., Jones, R. L., Gram, M., Lang, I., Desoye, G., Myers, J., Schneider, H., Hansson, S. R., Crocker, I. P. & Brownbill, P., 2018, I: *FASEB Journal*. 32, 10, s. 5436-5446 11 s.

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

Miranda, J., Simões, R. V., Paules, C., Cañueto, D., Pardo-Cea, M. A., García-Martín, M. L., Crovetto, F., Fuertes-Martin, R., Domenech, M., Gómez-Roig, M. D., Eixarch, E., Estruch, R., Hansson, S. R., Amigó, N., Cañellas, N., Crispi, F. & Gratacós, E., 2018, I: *Scientific Reports*. 8, 1, 13614.

Syncytiotrophoblast derived extracellular vesicles transfer functional placental miRNAs to primary human endothelial cells

Cronqvist, T., Tannetta, D., Mörgelin, M., Belting, M., Sargent, I. I. L., Familiarì, M. & Hansson, S. R., 2017 dec. 1, I: *Scientific Reports*. 7, 1, 4558.

Self-gated fetal cardiac MRI with tiny golden angle iGRASP: A feasibility study

Haris, K., Hedström, E., Bidhult, S., Testud, F., Maglaveras, N., Heiberg, E., Hansson, S., Arheden, H. & Aletras, A. H., 2017 juli, I: *Journal of Magnetic Resonance Imaging*. 46, 1, s. 207-217

Fetal hemoglobin in umbilical cord blood in preeclamptic and normotensive pregnancies: A cross-sectional comparative study

Masoumi, Z., Familiarì, M., Källén, K., Ranstam, J., Olofsson, P. & Hansson, S. R., 2017 apr. 1, I: *PLoS ONE*. 12, 4, e0176697.

EVERREST prospective study: A 6-year prospective study to define the clinical and biological characteristics of pregnancies affected by severe early onset fetal growth restriction

Spencer, R., Ambler, G., Brodzki, J., Diemert, A., Figueras, F., Gratacós, E., Hansson, S. R., Hecher, K., Huertas-Ceballos, A., Marlow, N., Marsál, K., Morsing, E., Peebles, D., Rossi, C., Sebire, N. J., Timms, J. F., David, A. L. & EVERREST Consortium, 2017 jan. 23, I: *BMC Pregnancy and Childbirth*. 17, 1, 43.

Elevated levels of protein AMBP in cerebrospinal fluid of women with preeclampsia compared to normotensive pregnant women

van den Berg, C. B., Duvekot, J. J., Güzel, C., Hansson, S., de Leeuw, T. G., Steegers, E. A. P., Versendaal, J., Luider, T. M. & Stoop, M. P., 2017 jan. 1, I: *Proteomics - Clinical Applications*. 11, 1-2, 1600082.

Fetal sex-specific differences in gestational age at delivery in pre-eclampsia: A meta-analysis

Hansson, S., Jälmby, M. & the Global Pregnancy Collaboration, 2017, I: *International Journal of Epidemiology*. 46, 2, s. 632-642 11 s.

Global Pregnancy Collaboration symposium on placental health: Summary and recommendations

Roberts, J. M., Hansson, S. R., Vaiman, D. & Redman, C. W. G., 2017, I: *Placenta*. 52, s. 116-121

Placenta-derived extracellular vesicles: Their cargo and possible functions

Familiarì, M., Cronqvist, T., Masoumi, Z. & Hansson, S., 2017, I: *Reproduction, Fertility and Development*. 29, 3, s. 433-447 15 s.

Recombinant alpha-1-microglobulin: A potential treatment for preeclampsia

Gunnarsson, R., Åkerström, B., Hansson, S. R. & Gram, M., 2017, I: *Drug Discovery Today*. 22, 4, s. 736-743

Urinary Extracellular Vesicles of Podocyte Origin and Renal Injury in Preeclampsia

Gilani, S. I., Dolberg Anderson, U., Jayachandran, M., Weissgerber, T. L., Zand, L., White, W. M., Milic, N. M., Suarez, M. L. G., Vallapureddy, R. R., Nääv, Å., Erlandsson, L., Lieske, J. C., Grande, J. P., Nath, K. A., Hansson, S. R. & Garovic, V. D., 2017, I: *Journal of the American Society of Nephrology: JASN*. 28, 11, s. 3363-3372

An international network (PlaNet) to evaluate a human placental testing platform for chemicals safety testing in pregnancy
Brownbill, P., Chernyavsky, I., Bottalico, B., Desoye, G., Hansson, S., Kenna, G., Knudsen, L. E., Markert, U. R., Powles-Glover, N., Schneider, H. & Leach, L., 2016 sep. 1, I: *Reproductive Toxicology*. 64, s. 191-202 12 s.

Placental Sequestration of Plasmodium falciparum Malaria Parasites Is Mediated by the Interaction Between VAR2CSA and Chondroitin Sulfate A on Syndecan-1

Ayres Pereira, M., Mandel Clausen, T., Pehrson, C., Mao, Y., Resende, M., Daugaard, M., Riis Kristensen, A., Spliid, C., Mathiesen, L., E. Knudsen, L., Damm, P., G. Theander, T., Hansson, S., A. Nielsen, M. & Salanti, A., 2016 aug. 1, I: *PLoS Pathogens*. 12, 8, e1005831.

Inflammatory processes are specifically enhanced in endothelial cells by placental-derived TNF- α : Implications in preeclampsia (PE)

Shaw, J., Tang, Z., Schneider, H., Saljé, K., Hansson, S. R. & Guller, S., 2016 juli 1, I: *Placenta*. 43, s. 1-8 8 s.

Adhesion of Plasmodium falciparum infected erythrocytes in ex vivo perfused placental tissue: A novel model of placental malaria

Pehrson, C., Mathiesen, L., Heno, K. K., Salanti, A., Resende, M., Dzikowski, R., Damm, P., Hansson, S., King, C. L., Schneider, H., Wang, C. W., Lavstsen, T., Theander, T. G., Knudsen, L. E. & Nielsen, M. A., 2016 maj 26, I: *Malaria Journal*. 15, 1, s. 1-12 12 s., 292.

Fetal hemoglobin, α_1 -microglobulin and hemopexin are potential predictive first trimester biomarkers for preeclampsia

DOLBERG ANDERSON, U., Gram, M., Ranstam, J., Thilaganathan, B., Åkerström, B. & Hansson, S. R., 2016 apr. 1, I: *Pregnancy Hypertension*. 6, 2, s. 103-109 7 s.

Fetal Cardiac Magnetic Resonance Imaging with self-gated iGRASP

Haris, K., Hedström, E., Bidhult, S., Testud, F., Kantasis, G., Engblom, H., Carlsson, M., Maglaveras, N., Heiberg, E., Hansson, S. R., Arheden, H. & Aletras, A. H., 2016 feb. 15.

Inventory of Novel Animal Models Addressing Etiology of Preeclampsia in the Development of New Therapeutic/Intervention Opportunities.

Erlandsson, L., Nääv, Å., Hennessy, A., Vaiman, D., Gram, M., Åkerström, B. & Hansson, S., 2016, I: *American Journal of Reproductive Immunology*. 75, 3, s. 402-410

[167-POS] : The human endogenous protection system against cell-free hemoglobin is overwhelmed during preeclampsia - New biomarkers and potential targets for therapy.

Dolberg Anderson, U., Gram, M., Jälmy, M., Kerström, B. & Hansson, S., 2015, I: *Pregnancy Hypertension*. 5, 1, s. 86

[97-POS] : Free fetal hemoglobin and hemoglobin-scavenging proteins are predictive first and second trimester biochemical markers for preeclampsia.

Dolberg Anderson, U., Gram, M., Thilaganathan, B., Kerström, B. & Hansson, S., 2015, I: *Pregnancy Hypertension*. 5, 1, s. 53

A1M Ameliorates Preeclampsia-Like Symptoms in Placenta and Kidney Induced by Cell-Free Fetal Hemoglobin in Rabbit.

Nääv, Å., Erlandsson, L., Axelsson, J., Larsson, I., Johansson, M., Wester Rosenlöf, L., Mörgelin, M., Casslén, V., Gram, M., Åkerström, B. & Hansson, S., 2015, I: *PLoS ONE*. 10, 5, e0125499.

First Trimester Prediction of Preeclampsia.

Dolberg Anderson, U., Gram, M., Åkerström, B. & Hansson, S. R., 2015, I: *Current Hypertension Reports*. 17, 9, s. 74

Maternal Smoking during Pregnancy and Daughters' Preeclampsia Risk.

Mattsson, K., Källén, K., Rignell-Hydbom, A., Hansson, S. R., McElrath, T. F., Cantonwine, D. E. & Rylander, L., 2015, I: *PLoS ONE*. 10, 12, e0144207.

Oxidative stress in preeclampsia and the role of free fetal hemoglobin.

Hansson, S., Nääv, Å. & Erlandsson, L., 2015, I: *Frontiers in Physiology*. 5, 516.

The Human Endogenous Protection System against Cell-Free Hemoglobin and Heme Is Overwhelmed in Preeclampsia and Provides Potential Biomarkers and Clinical Indicators.

Gram, M., Dolberg Anderson, U., Johansson, M. E., Edström, A., Larsson, I., Jälmy, M., Hansson, S. R. & Åkerström, B., 2015, I: *PLoS ONE*. 10, 9, e0138111.

A1M/ α 1-Microglobulin Protects from Heme-Induced Placental and Renal Damage in a Pregnant Sheep Model of Preeclampsia.

Wester Rosenlöf, L., Casslén, V., Axelsson, J., Edström, A., Gram, M., Holmqvist, M., Johansson, M., Larsson, I., Ley, D., Marsal, K., Mörgelin, M., Rippe, B., Rutardottir, S., Shohani, B., Åkerström, B. & Hansson, S., 2014, I: *PLoS ONE*. 9, 1, e86353.

Extracellular fetal hemoglobin induces increases in glomerular permeability: inhibition with alfa-1-microglobulin and tempol

Sverrisson, K., Axelsson, J., Rippe, A., Gram, M., Åkerström, B., Hansson, S. & Rippe, B., 2014, I: *American Journal of Physiology-Renal Physiology*. 306, 4, s. F442-F448

Extracellular hemoglobin - mediator of inflammation and cell death in the choroid plexus following preterm intraventricular hemorrhage

Gram, M., Sveinsdottir, S., Cinthio, M., Sveinsdottir, K., Hansson, S., Mörgelin, M., Åkerström, B. & Ley, D., 2014, I: *Journal of Neuroinflammation*. 11, 200.

IFPA Meeting 2013 Workshop Report III: Maternal placental immunological interactions, novel determinants of trophoblast cell fate, dual ex vivo perfusion of the human placenta

Abumaree, M. H., Brownbill, P., Burton, G., Castillo, C., Chamley, L., Croy, B. A., Drewlo, S., Dunk, C., Girard, S., Hansson, S., Jones, S., Jurisicova, A., Lewis, R., Letarte, M., Parast, M., Pehrson, C., Rappolee, D., Schneider, H., Tannetta, D. & Varmuza, S. och 4 andra, Wadsack, C., Wallace, A. E., Zenerino, C. & Lash, G. E., 2014, I: *Placenta*. 35, SUPPL, s. S15-S19

Strategy for Standardization of Preeclampsia Research Study Design

Myatt, L., Redman, C. W., Staff, A. C., Hansson, S., Wilson, M. L., Laivuori, H., Poston, L. & Roberts, J. M., 2014, I: *Hypertension*. 63, 6, s. 1293-1301

Syncytiotrophoblast Vesicles Show Altered micro-RNA and Haemoglobin Content after Ex-vivo Perfusion of Placentas with Haemoglobin to Mimic Preeclampsia.

Cronqvist, T., Saljé, K., Familiar, M., Guller, S., Schneider, H., Gardiner, C., Sargent, I. L., Redman, C. W., Mörgelin, M., Åkerström, B., Gram, M. & Hansson, S., 2014, I: *PLoS ONE*. 9, 2, e90020.

Alpha-1-microglobulin protects from heme induced placenta and kidney damage in a pregnant ewe model for preeclampsia

Edström-Hägerwall, A., Hansson, S., Casslén, V., Rosenlöf, L., Axelsson, J., Rippe, B., Marsal, K., Mörgelin, M., Åkerström, B. & Gram, M., 2013 apr., I: *Pregnancy Hypertension*. 3, 2, s. 70-1 2 s., PP010.

Gene expression profiling of first trimester placentas from pregnancies at high risk of developing preeclampsia

Anderson, U. D., Thilaganathan, B., Gram, M., Åkerström, B. & Hansson, S., 2013 apr., I: *Pregnancy Hypertension*. 3, 2, s. 69 PP006.

Fetal hemoglobin in preeclampsia: a new causative factor, a tool for prediction/diagnosis and a potential target for therapy.

Hansson, S., Gram, M. & Åkerström, B., 2013, I: *Current Opinion in Obstetrics & Gynecology*. 25, 6, s. 448-455

Hemoglobin induces inflammation after preterm intraventricular hemorrhage by methemoglobin formation.

Gram, M., Sveinsdottir, S., Ruscher, K., Hansson, S., Cinthio, M., Åkerström, B. & Ley, D., 2013, I: *Journal of Neuroinflammation*. 10, Aug.,6, 100.

Medical services of a multicultural summer camp event: experiences from the 22nd World Scout Jamboree, Sweden 2011
Jammer, I., Andersson, C. A., Olinder, A. L., Selander, B., Wallinder, A. E. & Hansson, S., 2013, I: BMC Health Services Research. 13, 187.

Normalizing to GAPDH jeopardises correct quantification of gene expression in ovarian tumours-IPO8 and RPL4 are reliable reference genes

Kolkova, Z., Arakelyan, A., Casslén, B., Hansson, S. & Kriegova, E., 2013, I: Journal of Ovarian Research. 6, 60

OS089. Elevated levels of the heme scavenger alpha-1-microglobulin in maternal plasma at the end of first trimester in patients who subsequently develop preeclampsia

Anderson, U. D., Hansson, S. R., Åkerström, B. & Olsson, M., 2012 juli, I: Pregnancy Hypertension. 2, 3, s. 226-7 2 s.

Gene expression profiling of placentae from women with early- and late-onset pre-eclampsia: down-regulation of the angiogenesis-related genes ACVRL1 and EGFL7 in early-onset disease

Junus, K., Centlow, M., Wikstrom, A.-K., Larsson, I., Hansson, S. & Olovsson, M., 2012, I: Molecular Human Reproduction. 18, 3, s. 146-155

Pathological Conditions Involving Extracellular Hemoglobin: Molecular Mechanisms, Clinical Significance, and Novel Therapeutic Opportunities for alpha(1)-Microglobulin

Gram, M., Allhorn, M., Bülow, L., Hansson, S., Ley, D., Olsson, M. L., Schmidtchen, A. & Åkerström, B., 2012, I: Antioxidants & Redox Signaling. 17, 5, s. 813-846

Review: Biochemical markers to predict preeclampsia.

Dolberg Anderson, U., Olsson, M. G., Kristensen, K., Åkerström, B. & Hansson, S., 2012, I: Placenta. 33, s. S42-S47

Stem Cells as In Vitro Models of Disease

Dottori, M., Familiari, M., Hansson, S. & Hasegawa, K., 2012, I: Stem Cells International. 2012, 565083.

P11. Differentially expressed micro-RNAs in microparticles from haemoglobin perfused placentas

Rasmussen, T., May, K., Familiari, M., Guller, S., Schneider, H., Åkerström, B. & Hansson, S. R., 2011 juli 1, I: Pregnancy Hypertension. 1, 3-4, s. 277-8 2 s.

Design of recombinant antibody microarrays for membrane protein profiling of cell lysates and tissue extracts.

Dexlin Mellby, L., Sandström Gerdtsson, A., Antberg, L., Gunnarsson, J., Hansson, S., Borrebaeck, C. & Wingren, C., 2011, I: Proteomics. 11, s. 1550-1554

Differential gene expression analysis of placentas with increased vascular resistance and pre-eclampsia using whole-genome microarrays.

Centlow, M., Wingren, C., Borrebaeck, C., Brownstein, M. J. & Hansson, S., 2011, I: Journal of Pregnancy. 2011, Mar 8, 472354.

Fetal hemoglobin and alpha(1)-microglobulin as first- and early second-trimester predictive biomarkers for preeclampsia

Dolberg Anderson, U., Gram, M., Rutardottir, S., Centlow, M., Kristensen, K., Isberg, P.-E., Thilaganathan, B., Åkerström, B. & Hansson, S., 2011, I: American Journal of Obstetrics and Gynecology. 204, 6

IFPA Meeting 2010 Workshops Report II: Placental pathology; Trophoblast invasion; Fetal sex; Parasites and the placenta; Decidua and embryonic or fetal loss; Trophoblast differentiation and syncytialisation

Al-Khan, A., Aye, I. L., Barsoum, I., Borbelyd, A., Cebral, E., Cerchi, G., Clifton, V. L., Collins, S., Cotechini, T., Davey, A., Flores-Martin, J., Fournier, T., Franchi, A. M., Fretes, R. E., Graham, C. H., Godbole, G., Hansson, S., Headley, P. L., Ibarra, C. & Jawerbaum, A. och 21 andra, Kemmerling, U., Kudo, Y., Lala, P. K., Lassance, L., Lewis, R. M., Menkhorst, E., Morris, C., Nobuzane, T., Ramos, G., Rote, N., Saffery, R., Salafia, C., Sarr, D., Schneider, H., Sibley, C., Singh, A. T., Sivasubramaniyam, T. S., Soares, M. J., Vaughan, O., Zamudio, S. & Lash, G. E., 2011, I: Placenta. 32, Suppl. 2, s. S90-S99

Orsaken till preeklampsi på väg att klarläggas. Fetalt hemoglobin kan vara nyckeln till prediktion, diagnostik och behandling.

Hansson, S., Dolberg Anderson, U., Centlow, M., Gram, M. & Åkerström, B., 2011, I: Läkartidningen. 108, 43, s. 2151-2156

Perfusion of human placenta with hemoglobin introduces preeclampsia-like injuries that are prevented by $\alpha(1)$ -microglobulin.

May, K., Wester Rosenlöf, L., Gram, M., Centlow, M., Mörgelin, M., Larsson, I., Cederlund, M., Rutardottir, S., Siegmund, W., Schneider, H., Åkerström, B. & Hansson, S., 2011, I: Placenta. 32, 4, s. 323-332

beta-Adrenoceptor activation depresses brain inflammation and is neuroprotective in lipopolysaccharide-induced sensitization to oxygen-glucose deprivation in organotypic hippocampal slices

Markus, T., Hansson, S., Cronberg, T., Cilio, C., Wieloch, T. & Ley, D., 2010, I: Journal of Neuroinflammation. 7

Continuous monitoring of fetal scalp temperature in labor: a new technology validated in a fetal lamb model

Lavesson, T., Amer-Wählin, I., Hansson, S., Ley, D., Marsal, K. & Olofsson, P., 2010, I: Acta Obstetrica et Gynecologica Scandinavica. 89, 6, s. 807-812 6 s.

Differential proteome analysis of the preeclamptic placenta using optimized protein extraction.

Centlow, M., Hansson, S. & Welinder, C., 2010, I: Journal of Biomedicine and Biotechnology. 2010, Sep 13, 458748.

Fetal cerebral energy metabolism and electrocardiogram during experimental umbilical cord occlusion and resuscitation.

Amer-Wählin, I., Nord, A., Bottalico, B., Hansson, S., Ley, D., Marsal, K., Ungerstedt, U. & Nordström, C.-H., 2010, I: Journal of Maternal-Fetal & Neonatal Medicine. 23, 2, s. 158-166

Feto-maternal interactions in pregnancies: Placental microparticles activate peripheral blood monocytes

Messerli, M., May, K., Hansson, S., Schneider, H., Holzgreve, W., Hahn, S. & Rusterholz, C., 2010, I: Placenta. 31, 2, s. 106-112

G protein-coupled estrogen receptor 1 (GPER, GPR 30) in normal human endometrium and early pregnancy decidua.

Kolkova, Z., Casslén, V., Ehinger, A., Hansson, S. & Casslén, B., 2010, I: Molecular Human Reproduction. 16, 10, s. 743-751

Increased levels of cell-free hemoglobin, oxidation markers, and the antioxidative heme scavenger $\alpha(1)$ -microglobulin in preeclampsia.

Gram, M., Centlow, M., Rutardottir, S., Stenfors, I., Larsson, J. G., Hosseini Maaf, B., Olsson, M. L., Hansson, S. & Åkerström, B., 2010, I: Free Radical Biology & Medicine. 48, s. 284-291

Perfusion Of Human Placenta With Hemoglobin, Introduces Preeclampsia-Like Injuries That Are Prevented By Alpha 1-Microglobulin

May, K., Rosenlöf, L., Gram, M., Centlow, M., Mörgelin, M., Larsson, I., Cederlund, M., Rutardottir, S., Schneider, H., Siegmund, W., Åkerström, B. & Hansson, S., 2010, I: Placenta. 31, 9, s. A125-A125

Tissue proteome profiling of preeclamptic placenta using recombinant antibody microarrays

Dexlin Mellby, L., Sandström Gerdtsen, A., Centlow, M., Sjögren, S., Hansson, S., Borrebaeck, C. & Wingren, C., 2010, I: Proteomics Clinical Applications. 4, 10-11, s. 794-807 14 s.

Beta 1 adrenergic activation offers neuroprotection after ischemia in organotypic hippocampal slices by inducing anti-inflammation, anti-apoptosis and activating oxidative defense

Markus, T., Wieloch, T., Cronberg, T., Hansson, S., Cilio, C. & Ley, D., 2009, I: Journal of Cerebral Blood Flow and Metabolism. 29, s. S511-S512

Circulatory Effects of Inhaled Iloprost in the Newborn Preterm Lamb.

Nojonen, T., Nord, A., Berg, A., Ley, D., Hansson, S., Pesonen, E. & Fellman, V., 2009, I: Pediatric Research. 66, s. 416-422

Die in-vitro Perfusion der menschlichen Plazenta mit Erythrozyten und Xanthine Oxidase als in vitro Simulation von Praeeklampsie.

Centlow, M., Junus, K., Nyström, H., May, K., Larsson, I., Olsson, M. G., Åkerström, B., Sager, R., Schneider, H. & Hansson, S. R., 2009, I: Zeitschrift für Geburtshilfe und Neonatologie. 213, 3, s. 89-95 7 s.

Estradiol attenuates EGF-induced rapid uPAR mobilization and cell migration via the G-protein-coupled receptor 30 in ovarian cancer cells.

Henic, E., Casslén, V., Høyer-Hansen, G., Hansson, S. & Casslén, B., 2009, I: International Journal of Gynecological Cancer. 19, 2, s. 214-222

High Brain Tissue Oxygen Tension during Ventilation with 100% Oxygen after Fetal Asphyxia in Newborn Sheep.

Perez de Sá, V., Cunha Goncalves, D., Nord, A., Hansson, S., Larsson, A., Ley, D., Fellman, V. & Werner, O., 2009, I: Pediatric Research. Aug 13, s. 57-61

Monoamine transporters in human endometrium and decidua.

Hansson, S. R., Bottalico, B., Casslén, V. & Casslén, B., 2009, I: Human Reproduction Update. 2008, Nov 5, s. 249-260

Myometrial oxytocin receptor mRNA concentrations at preterm and term delivery-the influence of external oxytocin

Liedman, R., Hansson, S., Igidbashian, S. & Åkerlund, M., 2009, I: Gynecological Endocrinology. 25, 3, s. 188-193

The influence of age on the distribution of morphine and morphine-3-glucuronide across the blood-brain barrier in sheep

Bengtsson, J., Ederoth, P., Ley, D., Hansson, S., Amer-Wählin, I., Hellström-Westas, L., Marsal, K., Nordström, C.-H. & Hammarlund-Udenaes, M., 2009, I: British Journal of Pharmacology. 157, 6, s. 1085-96 12 s.

Decrease in REM latency and changes in sleep quality parallel serotonergic damage and recovery after MDMA: a longitudinal study over 180 days

Kirilly, E., Molnar, E., Balogh, B., Kantor, S., Hansson, S., Palkovits, M. & Bagdy, G., 2008, I: International Journal of Neuropsychopharmacology. 11, 6, s. 795-809

Effects of free hemoglobin on the human placenta; An in-vitro study using the placenta dual-perfusion system

Centlow, M., May, K., Olsson, M. G., Schneider, H., Åkerström, B. & Hansson, S., 2008, I: Placenta. 29, 8, s. A79-A79

Endometrial expression of vasopressin, oxytocin and their receptors in patients with primary dysmenorrhoea and healthy volunteers at ovulation.

Liedman, R., Hansson, S., Howe, D., Igidbashian, S., Russell, R. J. & Åkerlund, M., 2008, I: European Journal of Obstetrics, Gynecology, and Reproductive Biology. 137, 2, s. 189-192

Placental expression profiling in preeclampsia: local overproduction of hemoglobin may drive pathological changes.

Centlow, M., Carninci, P., Nemeth, K., Mezey, E., Brownstein, M. & Hansson, S., 2008, I: Fertility and Sterility. 90, s. 1834-1843

Reproductive hormones in plasma over the menstrual cycle in primary dysmenorrhea compared with healthy subjects.

Liedman, R., Hansson, S., Howe, D., Igidbashian, S., McLeod, A., Russell, R. J. & Åkerlund, M., 2008, I: Gynecological Endocrinology. 24, 9, s. 508-513

Screening of Inflammatory Markers in Preeclampsia Using Antibody Microarrays

Centlow, M., Valkil, J., Borrebaeck, C., Wingren, C. & Hansson, S., 2008, I: Hypertension in Pregnancy. 27, 4, s. 618-618

BCS1L is expressed in critical regions for neural development during ontogenesis in mice.

Kotarsky, H., Tabasum, I., Mannisto, S., Heikinheimo, M., Hansson, S. & Fellman, V., 2007, I: Gene Expression Patterns. 7, s. 266-273

Cerebral Inflammatory Response after Fetal Asphyxia and Hyperoxic Resuscitation in Newborn Sheep.

Markus, T., Hansson, S., Amer-Wählin, I., Hellström-Westas, L., Didrik Saugstad, O. & Ley, D., 2007, I: *Pediatric Research*. 62, s. 71-77

Increased cystatin C expression in the pre-eclamptic placenta.

Kristensen, K., Larsson, I. & Hansson, S., 2007, I: *Molecular Human Reproduction*. 13, s. 189-195

Increased fetal blood pressure response to maternal norepinephrine after pharmacological inhibition of norepinephrine uptake in pregnant sheep.

Hansson, S., Bottalico, B., Amer-Wählin, I., Marsal, K. & Ley, D., 2007, I: *Acta Pædiatrica*. 96, 5, s. 650-654

The organic cation transporters (OCT1, OCT2, EMT) and the plasma membrane monoamine transporter (PMAT) show differential distribution and cyclic expression pattern in human endometrium and early pregnancy decidua.

Bottalico, B., Casslén, V., Pilka, R., Larsson, I., Domanski, H., Casslén, B. & Hansson, S., 2007, I: *Molecular Reproduction and Development*. 74, s. 1303-1311

EGF-stimulated migration in ovarian cancer cells is associated with decreased internalization, increased surface expression, and increased shedding of the urokinase plasminogen activator receptor.

Henic, E., Sixt, M., Hansson, S., Høyer-Hansen, G. & Casslén, B., 2006, I: *Gynecologic Oncology*. 101, 1, s. 28-39

Endometrial expression of the estrogen-sensitive genes MMP-26 and TIMP-4 is altered by a substitution protocol without down-regulation in IVF patients.

Pilka, R., Oborna, I., Lichnovsky, V., Havelka, P., Fingerova, H., Eriksson, P., Hansson, S. & Casslén, B., 2006, I: *Human Reproduction*. 21, 12, s. 3146-3156

Endometrial TIMP-4 mRNA is expressed in the stroma, while TIMP-4 protein accumulates in the epithelium and is released to the uterine fluid.

Pilka, R., Casslén, V., Domanski, H., Andersson, C., Hansson, S. & Casslén, B., 2006, I: *Molecular Human Reproduction*. 12, 8, s. 497-503

Gene expression profiling of human placentas from preeclamptic and normotensive pregnancies.

Hansson, S., Chen, Y., Brodzki, J., Chen, M., Hernandez-Andrade, E., Inman, J. M., Kozhich, O. A., Larsson, I., Marsal, K., Medstrand, P., Xiang, C. C. & Brownstein, M. J., 2006, I: *Molecular Human Reproduction*. 12, 3, s. 169-179

Histamine uptake by human endometrial cells expressing the organic cation transporter EMT and the vesicular monoamine transporter-2

Casslén, V., Bottalico, B., Olsson, H., Ehinger, A., Pilka, R., Casslén, B. & Hansson, S., 2006, I: *Molecular Human Reproduction*. 12, 8, s. 483-489

Lysophosphatidic Acid Binds to and Activates GPR92, a G Protein-Coupled Receptor Highly Expressed in Gastrointestinal Lymphocytes

Kotarsky, K., Boketoft, A., Bristulf, J., Nilsson, N., Norberg, A., Hansson, S., Sillard, R., Owman, C., Leeb-Lundberg, F. & Olde, B., 2006, I: *Journal of Pharmacology and Experimental Therapeutics*. 318, 2, s. 619-628

Effects of inhaled iloprost and nitric oxide on cardiac function and tissue oxygenation in preterm sheep with respiratory distress syndrome. No. 267

Nord, A., Berg, A., Ley, D., Oskarsson, G., Hansson, S., Pesonen, E. & Fellman, V., 2005 aug.

Differential localization and expression of urokinase plasminogen activator (uPA), its receptor (uPAR), and its inhibitor (PAI-1) mRNA and protein in endometrial tissue during the menstrual cycle.

Nordengren, J., Pilka, R., Casslén, V., Ehinger, A., Domanski, H., Andersson, C., Høyer-Hansen, G., Hansson, S. & Casslén, B., 2004, I: *Molecular Human Reproduction*. 10, 9, s. 655-663

Endometrial TIMP-4 mRNA is high at midcycle and in hyperplasia, but down-regulated in malignant tumours. Coordinated expression with MMP-26.

Pilka, R., Domanski, H., Hansson, S., Eriksson, P. & Casslén, B., 2004, I: *Molecular Human Reproduction*. 10, 9, s. 641-650

Expresse MMP-26 v endometrialnich explantech pod vlivem estradiolu a progesteronu

Pilka, R., Kudela, M., Hansson, S. & Casslén, B., 2004, I: Ceska gynekologie / Ceska lekarska spolecnost J. Ev. Purkyne. 69, 6, s. 467-471

Matrix metalloproteinase-26 (Matrilysin-2) expression is high in endometrial hyperplasia and decreases with loss of histological differentiation in endometrial cancer.

Pilka, R., Norata, G. D., Domanski, H., Andersson, C., Hansson, S., Eriksson, P. & Casslén, B., 2004, I: Gynecologic Oncology. 94, 3, s. 661-670

Norepinephrine Transporter (NET), Serotonin Transporter (SERT), Vesicular Monoamine Transporter (VMAT2) and Organic Cation Transporters (OCT1, 2 and EMT) in Human Placenta from Pre-eclamptic and Normotensive Pregnancies.

Bottalico, B., Larsson, I., Brodzki, J., Hernandez-Andrade, E., Casslén, B., Marsal, K. & Hansson, S., 2004, I: Placenta. 25, 6, s. 518-529

Nove matrix metaloproteinazy v cyklickem endometriu

Pilka, R., Kudela, M., Hansson, S. & Casslén, B., 2004, I: Ceska gynekologie / Ceska lekarska spolecnost J. Ev. Purkyne. 69, 4, s. 262-266

Oxytocin mRNA content in the endometrium of non-pregnant women.

Steinwall, M., Hansson, S., Bossmar, T., Larsson, I., Pilka, R. & Åkerlund, M., 2004, I: BJOG: An International Journal of Obstetrics & Gynaecology. 111, 3, s. 266-270

Epithelial expression of matrix metalloproteinase-26 is elevated at mid-cycle in the human endometrium

Pilka, R., Whatling, C., Domanski, H., Hansson, S., Eriksson, P. & Casslén, B., 2003, I: Molecular Human Reproduction. 9, 5, s. 271-277

Plasma membrane and vesicular monoamine transporters in normal endometrium and early pregnancy decidua.

Bottalico, B., Pilka, R., Larsson, I., Casslén, B., Marsal, K. & Hansson, S., 2003, I: Molecular Human Reproduction. 9, 7, s. 389-394

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)

Borgfeldt, C., Hansson, S., Gustavsson, B., Måsbäck, A. & Casslén, B., 2001, I: International Journal of Cancer. 92, 4, s. 497-502

Transient expression of a functional serotonin transporter in Merkel cells during late gestation and early postnatal rat development

Hansson, S. R. & Hoffman, B. J., 2000, I: Experimental Brain Research. 130, 3, s. 401-409 9 s.

Regulation of norepinephrine transporter and tyrosine hydroxylase mRNAs after kainic acid-induced seizures

Bengzon, J., Hansson, S. R., Hoffman, B. J. & Lindvall, O., 1999 sep. 18, I: Brain Research. 842, 1, s. 239-242

Difference in mRNA expression and occurrence of plasminogen activator inhibitors in intrauterine decidua of normal and ectopic human pregnancies

Jonasson, A., Larsson, B., Lecander, I., Åstedt, B., Larsson, J., Hansson, S. R. & Lindoff, C., 1999, I: Human Fertility. 2, 2, s. 127-132 6 s.

Non-neuronal dopamine in the gastrointestinal system

Mezey, É., Eisenhofer, G., Hansson, S., Harta, G., Hoffman, B. J., Gallatz, K., Palkovits, M. & Hunyady, B., 1999, I: Clinical and Experimental Pharmacology and Physiology. 26, SUPPL., s. S14-S22

Serotonin transporter messenger RNA expression in neural crest-derived structures and sensory pathways of the developing rat embryo

Hansson, S. R., Mezey, E. & Hoffman, B. J., 1999, I: Neuroscience. 89, 1, s. 243-265 23 s.

Ontogeny of vesicular monoamine transporter mRNAs VMAT1 and VMAT2 II. Expression in neural crest derivatives and their target sites in the rat

Hansson, S. R., Mezey, E. & Hoffman, B. J., 1998 sep. 10, I: Developmental Brain Research. 110, 1, s. 159-174 16 s.

Ontogeny of vesicular monoamine transporter mRNAs VMAT1 and VMAT2. I. The developing rat central nervous system

Hansson, S. R., Hoffman, B. J. & Mezey, É., 1998 sep. 10, I: Developmental Brain Research. 110, 1, s. 135-158 24 s.

Localization and dynamic regulation of biogenic amine transporters in the mammalian central nervous system

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

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, I: Neuroscience. 83, 4, s. 1185-1201 17 s.

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, I: Neuroendocrinology. 67, 5, s. 336-348

High tissue content of urokinase plasminogen activator (u-PA) is associated with high stromal expression of u-PA mRNA in poorly differentiated serous ovarian carcinoma

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

The Serotonin Transporter and the Vesicular Monoamine Transporters During Development

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

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

Buckley, N. E., Hansson, S., Hårta, G. & Mezey, É., 1997 nov. 12, I: Neuroscience. 82, 4, s. 1131-1149 19 s.

Dopaminergic characteristics of isolated parietal cells from rats

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

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

Mezey, É., Eisenhofer, G., Hårta, G., Hansson, S., Gould, L., Hunyady, B. & Hoffman, B. J., 1996 sep. 17, I: Proceedings of the National Academy of Sciences of the United States of America. 93, 19, s. 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

Caçslén, B., Liu, C. L., Martinsson, G., Hansson, S., Lecander, I. & Åstedt, B., 1996, s. 115-115. 1 s.

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

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) & Jöud, A. (PI)

Minskning och tidig diagnos av anastomosläckage efter tarmkirurgi för gynekologisk cancer

Teurneau, V. (Forskarstuderande), Asp, M. (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

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), Jöud, A. (Forskare) & Nielsen, C. (Forskare)

2015/01/01 → ...