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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, Medicinska fakulteten

Employment

Avdelningschef, Professor

Obstetrik och gynekologi, Lund

Lunds universitet

Lund, Sverige

2015 sep. 21 → present

Forskargrupperchef

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

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.

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.

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

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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., Öning, 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

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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

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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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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., Kraus, A. M., Strandberg, B., Lundh, T., Boman, C., Isaxon, C., Hansson, S. R. & Malmqvist, E., 2020, I: *Environmental Pollution*. 264, 114790.

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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.

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

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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

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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.

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

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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

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

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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

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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

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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

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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.

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

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

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