PUBLICATIONS

Scientific productivity
Since 1994, 57 papers (4 reviews) have been published. In addition 9 manuscripts are submitted and 8 manuscripts are in preparation. A total of 51 international abstracts have been presented. Two patents have been filed. The applicant has previously worked in the field of Neuroscience-embryology why earlier publications appear in journals from this field. The laboratory techniques are now applied in the field of Obstetrics-Perinatology and Gynecology-, areas in which the applicant currently is active.

1. original papers 1994-2010

1. Blay P; Nilsson C; Hansson S; Owmann C; Aldred AR; Schreiber G (1994)
   An in vivo study of the effect of 5-HT an sympathetic nerves on transferrin and transthyretin mRNA expression in rat choroid plexus and meninges.
   *Brain Res*, Oct 31;662(1-2):148-54

   A novel non-neuronal catecholamine system: exocrine pancreas synthesizes and releases dopamine.

   Regulation of Dopamine Transporter mRNA Levels in the Central Nervous System.

   Dopaminergic characteristics of isolated parietal cells from rat.

   Localization of a serotonin transporter in epithelial and endocrine cells of the stomach and intestine.
   *Gastroenterology* 112: A1155 (1997)

   Dopamine Produced by the Stomach May Act as a Paracrine/Autocrine Hormone in the Rat.

7. N. Buckley, S. R. Hansson, and E. Mezey
   Expression of the CB1 and CB2 receptor messenger RNAs during embryonic development in the rat.
   *Neuroscience* 82:1131-1149 (1998)
8. **Hansson, S.R.,** Mezey, E. and Hoffman, B.J. 

9. **Hansson, S.R.,** Mezey, E. and Hoffman, B.J. 

10. **Hansson, S.R.,** Mezey, E. and Hoffman, B.J. 

High tissue content of urokinase plasminogen activator (uPA) is associated with high stromal expression of u-PA mRNA in poorly differentiated serous carcinoma. *Int. J. Cancer* 79: 588-595 (1998)

12. **Hansson, S.R.,** Cabrera-Vera, T. and Hoffman, B.J. 

13. **Hansson, S.R.,** Mezey, E. and Hoffman, B.J. 


15. Lecander, I., Larsson, B., Jonasson, A., Bengtsson Intoftsi, K., Larsson, J., Lindoff, C., **Hansson, S.R.** 

16. **Hansson, S.R.** and Hoffman, B.J. 
17. Christer Borgfeldt, Stefan Hansson, Barbro Gustavsson, Anna Måsbäck, and Bertil Casslén
Dedifferentiated 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). *Int. J. Cancer* 92, 497-502 (2001)

Epithelial expression of matrix metallo-proteinase-26 (MMP-26) is elevated at midcycle in the human endometrium

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

Differential Neurochemical Properties of Central Serotonergic Transmission in Roman High- and Low-Avoidance Rats.

21. Steinwall M, Hansson SR, Bossmar T, Larsson I, Åkerlund M.
Oxytocin mRNA content in the endometrium of non-pregnant women.

Norepinephrine (NET), Serotonin (SERT), vesicular monoamine (VMAT2) and organic cation transporters (OCT1,2 and EMT) in human placenta from preeclamptic and normotensive pregnancies.


Differential localization and expression of urokinase plasminogen activator (uPA), its receptor (uPAR) and its inhibitor (PAI-1) mRNAs and proteins in endometrial tissue during the menstrual cycle.
   Endometrial TIMP-4 mRNA is high at midcycle and in hyperplasia, but down-regulated in malignant tumours. Coordinated expression with MMP-26.

26. Pilka R, Kudela M, **Hansson SR**, Casslén B.
   Novel matrix metaloproteinases in cycling endometrium.

27. Pilka, R., Kudela, M., **Hansson, S.R.**, Casslén, B.
   MMP-26 expression in endometrial explants treated with estradiol a progesterone.

   Lysophosphatidic acid binds to and activates GPR92, a G protein-coupled receptor highly expressed in gastrointestinal lymphocytes.

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

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

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

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


51. Marianne Messerli, Karen May, **Stefan R. Hansson**, Henning Schneider, Wolfgang Holzgreve, Sinuhe Hahn and Corinne Rusterholz
Feto-maternal interactions in pregnancies: Placental microparticles activate peripheral blood monocytes. Accepted *Placenta* 2009

Free fetal hemoglobin
*Prenatal Screening* 2009, vol 15, p17

53. Lavesson, T. Amer-Wåhlin, I. **Hansson, SR**. Ley, D. Maršál, K. Olofsson, P.
Continuous monitoring of fetal scalp temperature in labor: a new technology validated in a fetal lamb model. Accepted in *Acta Obstetricia et Gynecologica Scandinavica*, 2010

2. reviews

1. Hoffman BJ and **Hansson SR**.
The serotonin and vesicular monoamine transporters: receptor-mediated regulation, cellular localization and ontogeny.


Non-neuronal dopamine in the gastrointestinal system.

4. **Hansson SR**, Bottalico B., Noskova V and Casslén B.
Monoamine transporters in human endometrium and placenta.
3. Patents

- A new diagnostic marker and treatment for preeclampsia, first filed January, 2007 and PCT filed Feb 2008 (PCT/EP2008001051) by Bo Åkerström and **Stefan Hansson**.

- Medical use of the radical scavenger and antioxidant alpha 1-microglobulin, first filed July 2008 by Bo Åkerström, Martin Olsson and **Stefan Hansson**.

4. Popular presentations and publications

1. **Havandeskapsförgiftning-komplikation med stora risker**
   Medicinsk månadsmöte 3 Mars, 2008, Lunds Universitetssjukhus

2. **Bättre odds för mor och barn, ny diagnosmetod ett steg mot en lösning på havandeskapsförgiftning**
   Lunds Universitets Magasin *LUM*, Nr 2, 2008

5. Preprints and manuscripts


2. Centlow M, C. Wingren, Borrebaeck, Brownstein, M. and **Hansson SR**. Differential gene expression analysis of placentas with increased vascular resistance and preeclampsia using whole genome microarrays. Revised and re-submitted 2010


5. Tina Markus, David Ley, **Stefan R Hansson** and Tadeusz Wieloch. Beta1 adrenergic Stimulation is Protective by down-regulating Inflammation and Apoptosis and up-regulating Antioxidant Defense. Submitted 2009
6. Tina Markus, **Stefan R Hansson**, Tobias Cronberg, Corrado Cilio, Tadeusz Wieloch and David Ley
ß1-Adrenoceptor Activation is Neuroprotective in Lipopolysaccharide-induced Sensitization to Oxygen-Glucose Deprivation in Murine Neonatal Organotypic Hippocampal Slices. Submitted 2009


6. Manuscripts in preparation


5. K. May, M. Centlow, Olsson MG, Åkerström B and **SR Hansson** Effects of Free Hemoglobin on the Human Placenta; an In-Vitro Study Using the Placenta Dual-Perfusion System.
