

PETER HANSELL - Curriculum Vitae + Publications **(Born 1958, Swedish citizen)**

PRESENT POSITION:

Since June 1, 2003 Professor of integrative physiology (Uppsala University)

PREVIOUS POSITIONS:

2001-2003 Researcher (Medical Faculty, UU)
1995-2001 Researcher (KA Wallenberg Foundation, 6 yrs)
1994-1995 Senior lecturer (Medical Faculty, UU)
1990-1993 Research Assistant (Medical Research Council, 4yrs)

ACADEMIC DEGREES:

1990 Associate professor (docent) of physiology (UU)
1988 PhD in physiology (UU)
1983 BSc, Biomedicine (UU)

POSITIONS AT THE UNIVERSITY OF UPPSALA:

Post-graduate position, Research Assistant (MRC, 4 years), Researcher (KA Wallenberg Foundation, 6 years), Senior Lecturer, Researcher (Faculty of medicine). Presently: Professor of integrative physiology since June 1, 2003.

POST-DOC: Total 1 year and 6 months

1990-1991 and periodically 1992-96. Guest Researcher at the La Jolla Inst for Experimental Medicine and UC San Diego (AMES-Bioengineering).
1995-1996 Adjunct staff scientist: La Jolla Institute for Experimental Medicine, La Jolla, CA, USA.

PUBLICATIONS:

124 peer-reviewed publications, 4 book chapters, 7 Editorials/Letters/Communications, more than 150 abstracts in the fields of renal physiology, acute renal failure, hypertension, ischemia-reperfusion, angiogenesis, inflammation, diabetes. Studies on kidney, adrenal, mesentery, skeletal muscle, heart, nasal mucosa, pancreatic islets. Mainly *in vivo* models but also studies in patients and *in vitro*. Over 4,300 citations, H-index = 31 (Web of Science) (ResearchGate H-index 32) (Google Scholar H-index 37).

EDITOR:

1) Associate Editor of *Acta Physiologica* 2017-2018 (JIF=5,2 in 2018).
2) Co-Editor: *Advances in Experimental Medicine and Biology*, Volume 645, 2009. ISBN: 978-0-387-85997-2. Oxygen Transport to Tissue XXX, Springer Verlag. Eds: Liss P, Hansell P, Bruley D, Harrison D.
3) Guest Editor: *Acta Physiologica Scandinavica* 2000, Volume 168 (1), pp 21-265. The 4th *Acta Physiologica Scandinavica* International Symposium on Vasodilators in the development of hypertension: NO and dopamine. Blackwell Science. Eds: Hansell P, Källskog Ö, Persson AEG.

COMMISSIONS OF TRUST:

1) Chairman of the prioritising committee "Cardiovascular disease" at the Swedish Medical Research Council (MRC) 2007 (reviewing of grant applications and research positions).
2) Member of the MRC prioritising committee "System Physiology/Pharmacology" (2001-2006).
3) Member of the MRC prioritising committee "Cardiovascular disease" (2013).
4) Member of the Advisory Board of the Swedish MRC (2007).
5) Member of MRC National Planning Group for Clinical and Experimental Kidney Research (1994-1999).
6) Member of the Board of Faculties of Medicine and Pharmacy at Uppsala Univ (2011-2017).
7) Member of the Recruitment Committee at the Faculty of Medicine, Uppsala Univ, since 2013 (ongoing). Deputy chairman of the committee 2017-2020 (handling of all senior academic positions at the University and Academic Hospital).
8) Deputy chairman at the Department of Medical Cell Biology since 2008 (ongoing). Department Board member since 2005 (ongoing). Board member at Department of Physiology and Medical Biophysics 1996-2001.
9) Executive Board member of the Scandinavian Physiological Society (since 2016, ongoing).
10) Representative for Sweden in the International Union of Physiological Sciences (IUPS) 2016-2020.
11) Member of Uppsala University's Equal Opportunities Advisory Board since 2020. Board member of the Faculty committee of Equal Opportunities and Equality since 2017 (ongoing), deputy chairman since

2020.

12) Referee, ad hoc, for the following research journals:

a) Journal of the American Society of Nephrology b) Hypertension c) American Journal of Physiology d) Kidney International e) J of Hypertension f) Science g) Pflugers Arch-European Journal of Physiology h) Life Sciences i) Nephrology, Dialysis, Transplantation j) Microvascular Research k) J Renin Angiotensin Aldosterone System l) J Cardiovascular Pharmacology m) J Pharmaceutical Science n) Acta Physiologica o) Endocrine p) BMC Pharmacology and Toxicology q) Nephron Physiology r) Acta Radiologica s) Endocrine t) Drug and Chemical Toxicology u) Physiological Reports v) Anti-Inflammatory & Anti-Allergy Agents in Medicinal Chemistry x) Uppsala J Medical Sci

13) Expert Advisor (review grant applications) for a) The Wellcome Trust (1990-1995); b) Canadian Kidney Foundation (1990-1991); c) Estonian Science Foundation (2008) d) Swedish MRC (2001-2007, 2013) e) Kidney Research UK (2016).

14) Faculty opponent (external examiner) at PhD dissertations 5 times: a) Sahlgrenska Academy (Göteborg University: 2000, 2004 and 2012); b) Bergen University, Norway (2005); Lund University (2015).

15) Expert advisor on positions:

a) Professorships (Molecular medicine, Karolinska Institute 2010; Physiology, Sahlgrenska Academy, Göteborg Univ 2012; Biochemistry, Trinity College Ireland 2020).

b) Adjunct Professorship (Renal Medicine, Sahlgrenska Academy 2016).

c) Associate Professorships (docent: in Physiology, Sahlgrenska Academy 2005; in Experimental Medicine, University of Lund, 2007; in Physiology, Karolinska Institute 2011 and 2015).

d) Senior lectureships (Linköping University 2006, Sahlgrenska Academy 2009, University of Lund 2010 and 2017).

e) Junior Researcher position (Experimental Nephrology, Karolinska Institute 2008).

16) Member of Faculty of Medicine's governing group for reorganising medical school 2000-2004 (new program launched 2006).

17) Committee chairman/vice chairman for the Biomedical programme, Uppsala Univ 1998-2004 (new program launched 1999).

18) Consultant for AstraZeneca R&D, Mölndal (2000-2001, 2006).

19) Consultant for Biolipox AB, Uppsala (2004-2005).

20) Board member of the Acta Jubilee Fund and the Foundation for Nordic Physiology (Norway).

21) Member of the electoral college for the disciplinary domain Medicine and Pharmacy 2013-2016.

22) Member of examination boards at PhD dissertations 25 times (Uppsala, Karolinska Institute, Gothenburg, Lund).

23) Member of the Course Classification Committee at Uppsala university (2017-2019).

LEADERSHIP AND OTHER SENIOR STAFF COURSES

2009 Leadership course for senior staff at Uppsala university (12 days)

2010 Law in practice (Uppsala uni, 2 days)

2010 Economy for staff (Uppsala uni, 2 days)

2008 Handling of conflicts (Uppsala uni, 1 day)

2006 Equal opportunities (Uppsala uni, ½ day)

CONGRESS WORK:

1) Co-organizer to the Uppsala Kidney Oxygen Meeting Aug 17-19 2017. About 60 participants worldwide.

2) Co-organizer to the 39th Annual ISOTT Meeting (International Society on Oxygen Transport to Tissue) at Georgetown University, Washington DC, USA, July 24-27, 2011. About 110 participants.

3) Co-organizer to the Scandinavian Physiological Society Annual Meeting in Uppsala, August 14-16, 2009. About 200 participants.

4) Co-organizer to the 35th Annual ISOTT Meeting (International Society on Oxygen Transport to Tissue) in Uppsala: "Measuring and analyzing oxygen changes - from theoretical models to molecular imaging". Uppsala August 26-30, 2007). About 100 participants from Europe, USA and Japan.

5) General Secretary for the symposium: *Vasodilators in the Development of Hypertension: NO and Dopamine*, Uppsala June 4-7, 1999 (36 international lecturers, total of 70 participants).

SUPERVISING POSITIONS:

Main supervisor to 4 PhD dissertations, assistant supervisor to 9 PhD dissertations, ongoing assistant supervisor for 2 PhD students. Main supervisor to 11 Master thesis projects.

MEMBERSHIPS:

International Society of Nephrology, American Physiological Society, Nordic Society of Physiology, Swedish Society of Kidney Medicine, Uppsala Society for Physicians, The Swedish Society of Medicine, International Society of Oxygen Transport to Tissue (ISOTT).

INVITED LECTURER:

Danish Society of Hypertension (1989), Danish Society of Clinical Physiology (1989). Workshop on Atrial Natriuretic Peptide (Copenhagen 1989), Swedish Physiological Society annual meeting (1988), Swedish Society for Clinical Physiology's annual meeting (1990), Post-graduate course in renal physiology and pathophysiology in Gothenburg (1998), German Society of Experimental and Clinical Pharmacology and Toxicology (2000), 8th International Conference on Peripheral Dopamine Stockholm, Sweden (2002). Symposium on "Maintaining the Milieu Interieur" (Karolinska Institute 2003). Specialist course in Acute and chronic renal failure (Uppsala, yearly since 2009), specialist course in Renal endocrinology (Uppsala, yearly since 2009). International Society on Oxygen Transport to Tissue (ISOTT, Washington 2010), 6th Nordic Connective Tissue Meeting (Uppsala 2011), Scandinavian Physiological Society meeting in Bergen, Norway 2011, Swedish Society of Nephrology (Uppsala 2012), Scandinavian Physiological Society meeting in Helsinki, Finland 2012. Renal Physiology: Old & New, Scandinavian Postgraduate Course in Gothenburg 2016. Renal Meeting in Sandbjerg, Scandinavian Postgraduate Course in Denmark 2018. Torvard Laurent Memory Symposium, Uppsala 2019. Furthermore, numerous presentations at international and national research meetings.

GRANTS AND STIPENDS:

Swedish Medical Research Council, Knut och Alice Wallenbergs Foundation, Royal Academy of Sciences, Royal Society of Science, National Board of Health and Welfare, Diabetes Foundation, Wenner-Gren Foundation, Uppsala Medical Faculty, Nordic Insulinfund Committ , Swedish Society for Medical Research, The International Institute for Microcirculation, S derbergs Foundation, Bergvalls Foundation,  ke Wibergs Foundation, Lars Hiertas Memory Foundation, Emil & Ragna B rjessons Foundation, Helge Ax:son Johnsons Foundation, Royal & Hvitfeld Foundation, Cederbergs Foundation, Sandoz Foundation, Clara Lachmans Fund, Consul Thures Foundation.

TEACHING AND PEDAGOGICAL EDUCATION:

Lectures in physiology for students on different educational programmes (basic and masters level) since the mid 1980 's (medicine, biomedicine, nursing, pharmacy, nutritionists). Lecturer for specialist doctors in nephrology and general medicine. Department director for all undergraduate education (1600 students per year), course leader, program committee chairman/deputy chairman, organizer of reform processes for the medical, biomedical and nurses educational programmes resulting in launching of new programmes.

Formal courses:

2006 Course for research supervisors (Faculty of medicine, Uppsala Univ, 1 day)
2005 Tutorship course in problem based learning (Faculty of medicine, Uppsala Univ, 3 days)
1996 Tutorship course for supervisors (Faculty of medicine, Uppsala Univ, 2 days)
1987 Course in pedagogy (teachers at the Faculty of medicine, Uppsala Univ, 1 week)

ACTIVITIES OUTSIDE PROFESSIONAL SPHERE

2017- 2019 Coach/Team leader for boys football team age 13-15y (Upsala IF, P04).
2017- 2021 Chair of nominating committee of Football section in Upsala IF.
1984-1988 Deputy chairman of board for housing cooperation (30 apartments, about 50 tenants).
1998-2000 Lectures for a school class in selected parts of anatomy-physiology (primary school, 1/semester, Bergaskolan, Uppsala).

PUBLICATIONS 1984-2020

In essence: 124 peer-reviewed publications (112 originals, 12 reviews), 4 book chapters, 7 letters/editorials/short communications, over 150 abstracts. Original publications: 26 first and 22 last authorships; reviews: 3 first and 2 last authorships. Main supervisor to 4 doctoral dissertations, assistant supervisor to 9. Mainly *in vivo* models, 8 studies on patients. Over 4,300 citations, H-index 32 (Research Gate).

Research fields: renal physiology (mainly), acute renal failure, diabetes, hypertension, ischemia-reperfusion injury, angiogenesis, inflammation. Studies on kidneys, adrenals, mesentery, skeletal muscle, heart, skin, nasal mucosa, pancreatic islets and cell cultures.

Original papers:

112) Circadian variation in renal blood flow and kidney function in healthy volunteers monitored using non-invasive magnetic resonance imaging.

ECKERBOM P, HANSELL P, COX EF, BUCHANAN C, WEIS J, PALM F, FRANCIS ST & LISS P.
Am J Physiol (Renal Physiol) 2020 Dec 1;319(6):F966-F978.

111) Intrarenal oxygenation determines kidney function during the recovery from an ischemic insult.

NENSEN O, HANSELL P & PALM F.
Am J Physiol (Renal Physiol) 2020 Dec 1;319(6):F1067-F1072.

110) Renomedullary interstitial cell endothelin A receptors regulate blood pressure and renal function.

HU C, LAKSHMIPATHI J, STUART D, PETI-PETERDI J, GYARMATI G, HAO CH, HANSELL P & KOHAN DE
J Am Soc Nephrol 2020, 31 (7) 1555-1568.

109) Role of carbonic anhydrase in acute recovery following renal ischemia reperfusion injury.

NENSEN O, HANSELL P & PALM F.
PLOS One 2019 Aug 29;14(8):e0220185.

108) Multiparametric assessment of renal physiology in healthy volunteers using non-invasive magnetic resonance imaging.

ECKERBOM P, HANSELL P, COX EF, BUCHANAN C, WEIS J, PALM F, FRANCIS ST & LISS P.
Am J Physiol (Renal Physiol.) 2019; 316(4):F693-F702.

107) Deletion of Uncoupling Protein-2 reduces renal mitochondrial leak respiration, intrarenal hypoxia and proteinuria in a mouse model of type-1 diabetes.

FRIEDERICH-PERSSON M, PERSSON P, HANSELL P & PALM F.
Acta Physiol 2018 Aug;223(4):e13058. doi: 10.1111/apha.13058..

106) Inhibition of mammalian target of rapamycin decreases intrarenal oxygen availability and alters glomerular permeability

SIVERTSSON E, FRIEDERICH PERSSON M, ÖBERG C, FASCHING A, HANSELL P, RIPPE B & PALM F
Am J Physiol (Renal Physiol.) 2018 May 1;314(5):F864-F872. doi: 10.1152/ajprenal.00033.2017.

105) Hyaluronan Production by Renomedullary Interstitial Cells: Influence of Endothelin, Angiotensin II and Vasopressin.

STRIDH S, PALM F, TAKAHASHI T, IKEGAMI-KAWAI M, FRIEDERICH-PERSSON M & HANSELL P
Intern J of Mol Sci 2017 Dec 18(12):2701.

104) Cellular transport of L-Arginine determines renal medullary blood flow in control rats, but not in diabetic rats despite enhanced cellular uptake capacity

PERSSON P, FASCHING A, TEERLINK T, HANSELL P & PALM F
Am J Physiol (Renal Physiol.) 2017 Feb 1;312(2):F278-F283.

103) Iodinated contrast media inhibit oxygen consumption in freshly isolated proximal tubular cells from elderly humans and diabetic rats: Influence of nitric oxide.

LISS P, HANSELL P, FASCHING A & PALM F.
UJMS 2016 Mar;121(1):12-6.

102) Adenosine A2a receptor stimulation prevents proteinuria in diabetic rats by promoting an anti-inflammatory phenotype without affecting oxidative stress.

PERSSON P, FRIEDERICH-PERSSON M, FASCHING A, HANSELL P & PALM F.
Acta Physiol (Oxf) 2015 Jul;214(3):311-8.

- 101) Inhibition of mTOR activity in diabetes mellitus reduces proteinuria but not renal accumulation of hyaluronan.**
STRIDH S, PALM F, TAKAHASHI T, IKEGAMI-KAWAI M & HANSELL P
UJMS 2015 Nov;120(4):233-40
- 100) Estimation of hyaluronan molecular weight distribution in small biological samples with gas-phase electrophoretic mobility molecular analysis.**
DO L, DAHL C, KERJE C, HANSELL P, MÖRNER SS, LINDQVIST U, ENGSTRÖM-LAURENT A, LARSSON G & HELLMAN U.
Intern J Cell Biol. 2015;2015:938013, pp 1-5.
- 99) Activation of Hypoxia-Inducible Factors prevents diabetic nephropathy in rats.**
NORDQUIST L, FRIEDERICH-PERSSON M, FASCHING A, LISS P, SHOJI K, NANGAKU M, HANSELL P & PALM F.
J Am Soc Nephrol 2015 Feb;26(2):328-38.
- 98) Reduced adenosine A2a receptor-mediated efferent arteriolar vasodilation contributes to diabetes-induced glomerular hyperfiltration.**
PERSSON P, HANSELL P & PALM F.
Kidney Int 2015 Jan;87(1):109-15.
- 97) L-Citrulline, but not L-Arginine, prevents diabetes mellitus-induced glomerular hyperfiltration and proteinuria in rat.**
PERSSON P, FASCHING A, TEERLINK T, HANSELL P & PALM P.
Hypertension 2014 Aug;64(2):323-9
- 96) Differences in susceptibility to develop parameters of diabetic nephropathy in four mouse strains with type 1 diabetes.**
FRANZÉN S, FRIEDERICH-PERSSON M, FASCHING A, HANSELL P, NANGAKU M & PALM F.
Am J Physiol (Renal Physiol.) 2014 May 15;306(10):F1171-8.
- 95) Kidney Hypoxia, Attributable to Increased Oxygen Consumption, Induces Nephropathy Independently of Hyperglycemia and Oxidative Stress.**
FRIEDERICH-PERSSON M, THÖRN E, HANSELL P, NANGAKU M, LEVIN M & PALM F
Hypertension 2013 Nov;62(5):914-9.
- 94) Inhibition of hyaluronan synthesis in rats reduces renal ability to excrete fluid and electrolytes during acute hydration.**
STRIDH S, PALM F & HANSELL P.
UJMS 2013 Nov;118(4):217-221.
- 93) Increased kidney metabolism as a pathway to kidney tissue hypoxia and damage: effects of triiodothyronine and dinitrophenol in normoglycemic rats.**
FRIEDERICH-PERSSON M, PERSSON P, FASCHING A, HANSELL P, NORDQUIST L, PALM F.
Adv Exp Med Biol. 2013;789:9-14
- 92) Hypoxia in the diabetic kidney is independent of advanced glycation end-products.**
NORDQUIST L, LISS P, FASCHING A, HANSELL P & PALM F
Adv Exp Biol Med 2013;765:185-193.
- 91) Adenosine A2 receptor-mediated regulation of renal hemodynamics and glomerular filtration rate is abolished in diabetes.**
PERSSON P, HANSELL P & PALM F
Adv Exp Biol Med 2013;765:225-230.
- 90) Intravoxel incoherent motion MR imaging of the kidney. Preliminary results.**
ECKERBOM P, HANSELL P, BJERNER T, PALM F, WEIS J, LISS P.
Adv Exp Biol Med 2013;765:55-58.
- 89) NADPH oxidase inhibition reduces tubular sodium transport and improves kidney oxygenation in diabetes.**
PERSSON P, HANSELL P & PALM F
Am J Physiol- Regulatory 2012;302:R1443-R1449
- 88) Coenzyme Q10 prevents GDP-sensitive mitochondria uncoupling, glomerular hyperfiltration and proteinuria in kidneys from db/db-mice as a model of type 2 diabetes.**
FRIEDERICH PERSSON M, FRANZÉN S, CATRINA S-B, DALLNER G, HANSELL P, BRISMAR K & PALM F.
Diabetologia 2012;55:1535-1543

- 87) Insulin induces the correlation between renal blood flow and glomerular filtration rate in diabetes – Implications for mechanisms causing hyperfiltration.**
PIHL L, PERSSON P, FASCHING A, HANSELL P, DIBONA GF & PALM F
Am J Physiol- Regulatory 2012; 303: R39-R47.
- 86) Angiotensin converting enzyme inhibition blocks interstitial hyaluronan dissipation in the neonatal rat kidney via hyaluronan synthase 2 and hyaluronidase 1**
STRIDH S, KERJASCHKI D, CHEN Y RÜGHEIMER L, ÅSTRAND A, JOHNSSON C, FRIBERG P, OLERUD J, TAKAHASHI T, IKEGAMI-KAWAI M, PALM F & HANSELL P
Matrix Biol. 2011 Jan;30(1):62-9
- 85) Uremia induces abnormal oxygen consumption in tubules and aggravates chronic hypoxia of the kidney via oxidative stress.**
PALM F, NANGAKU M, FASCHING A, HANSELL P, KAWAKAMI T, NISHIJIMA F, FUJITA T.
Am J Physiol 2010;299 F380-F386.
- 84) The roles of NADPH-oxidase and nNOS for the increased oxygen consumption in the diabetic kidney**
EDLUND J, FASCHING A, LISS P, HANSELL P & PALM F.
Diab-Metab Res Rev 2010 Jul;26(5):349-56.
- 83) Nitric oxide originating from NOS1 controls oxygen utilization and electrolyte transport efficiency in the diabetic kidney**
PALM F, FASCHING A, HANSELL P & KÄLLSKOG Ö
Am J Physiol Renal Physiol. 2010 Feb;298(2):F416-20
- 82) Hyaluronan synthases and hyaluronidases in the kidney during changes in hydration status.**
RÜGHEIMER L, OLERUD J, JOHNSSON C, TAKAHASHI T, SHIMIZU K & HANSELL P.
Matrix Biol. 2009 Sep;28(7):390-395.
- 81) Identification and distribution of uncoupling protein isoforms in the normal and diabetic rat kidney.**
FRIEDERICH M, NORDQUIST L, OLERUD J, JOHANSSON M, HANSELL P & PALM F.
Adv Exp Biol Med 2009; 645: 205-212.
- 80) Reduced oxygenation in diabetic rat kidneys measured by T2*-weighted magnetic resonance micro-imaging.**
EDLUND J, HANSELL P, FASCHING A, LISS A, WEIS J, GLICKSON JD & PALM F
Adv Exp Med Biol 2009; 645: 199-204.
- 79) Iodinated contrast media decrease renomedullary blood flow. A possible cause of contrast media-induced nephropathy**
LISS P, HANSELL P, FASCHING A & PALM F.
Adv Exp Med Biol 2009; 645: 213-218.
- 78) C-peptide normalizes glomerular filtration rate in hyperfiltrating conscious diabetic rats.**
STRID S, SÄLLSTRÖM J, FRIDÉN M, HANSELL P, NORDQUIST L, PALM F.
Adv Exp Biol Med 2009; 645: 219-226.
- 77) Determination of the charge of the plasma proteins and consequent Donnan equilibrium across the capillary barriers in the rat microvasculature.**
RÜGHEIMER L, HANSELL P & WOLGAST M
Acta Physiol 2008, 194, 335–339
- 76) Diabetes-induced upregulation of uncoupling protein-2 results in increased mitochondrial uncoupling in kidney proximal tubular cells.**
FRIEDERICH M, FASCHING A, HANSELL P, NORDQUIST L & PALM F.
Biochim Biophys Acta 2008; 1777: 935-940.
- 75) Renal hyaluronan content during experimental uncontrolled diabetes in rats**
RÜGHEIMER L, CARLSSON C, JOHNSSON C & HANSELL P
J Physiol Pharmacol 2008; 59 (1): 115-128.
- 74) Hormonal regulation of renomedullary hyaluronan.**
RÜGHEIMER L, JOHNSSON C, MARIC C & HANSELL P.
Acta Physiol (Oxford) 2008; 193 (2): 191-198.
- 73) Uncoupling protein-2 in diabetic kidneys: increased protein expression correlates to increased non-transport related oxygen consumption.**
FRIEDERICH M, OLERUD J, FASCHING A, LISS P, HANSELL P & PALM F.

Adv Exp Med Biol 2008;614:37-43.

72) Reduced nitric oxide in diabetic kidneys due to increased hepatic arginine metabolism: Implications for renomedullary oxygen availability.

PALM F, FRIEDERICH M, CARLSSON PO, HANSELL P, TEERLINK T & LISS P.
Am J Physiol 2008; 294: F30-F37.

71) Radiological contrast media and pancreatic islet blood flow in anaesthetized rats.

LINDER G, CARLSSON PO, KÄLLSKOG Ö, HANSELL P, JANSSON L & KÄLLSKOG V.
Acta Radiologica 2007; 48 (10): 1120-1124.

70) Hemodynamic effect of iopromide in pancreas-duodenum transplanted rats.

LINDER G, CARLSSON PO, KÄLLSKOG Ö, HANSELL P, JANSSON L & KÄLLSKOG V.
Acta Radiologica 2007; 48 (10): 1125-1130.

69) Endothelin-1 and pancreatic islet vasculature: studies in vivo and on isolated, vascularly perfused pancreatic islets

LAI EY, PERSSON AEG, BODIN B, KÄLLSKOG Ö, ANDERSSON A, PETTERSSON U, HANSELL P & JANSSON L.
Am J Physiol (Endocrinol Metab). 2007 Jun;292(6):E1616- E1623.

68) Renal failure in 57,925 patients undergoing coronary procedures using iso-osmolar or low-osmolar contrast media.

LISS P, PERSSON PB, HANSELL P & LAGERQVIST B.
Kidney Int 2006 Nov;70(10):1811-1817.

67) Prenatal exposure to interleukin-6 results in hypertension and alterations in the renin-angiotensin system.

SAMUELSSON A-M, ALEXANDERSON C, MÖLNE J, HARALDSSON B, HANSELL P, & HOLMÄNG A
J Physiol 2006 Sep 15;575(Pt 3):855-867.

66) Lymphatic vessels in pancreatic islets implanted under the renal capsule of rats.

KÄLLSKOG Ö, KAMPF C, ANDERSSON A, PO CARLSSON, HANSELL P & JANSSON
Am J Transpl 2006 Apr;6(4):680-686.

65) Influence of iohalamate on renal medullary perfusion and oxygenation in the rat.

LISS P, AUKLAND K, PALM F, CARLSSON PO & HANSELL P.
Acta Radiol. 2005 Dec;46(8):823-829.

64) Reduced nitric oxide concentration in the renal cortex of streptozotocin-induced diabetic rats: effects on renal microcirculation and oxygenation.

PALM F, BUERK DG, CARLSSON PO, HANSELL P & LISS P.
Diabetes 2005 Nov;54(11):3282-3287.

63) CNS-induced natriuresis, neurohypophyseal peptides and renal dopamine and norepinephrine excretion in prehypertensive salt-sensitive Dahl rats.

SJÖQUIST M, LEE SL & HANSELL P.
Exp Physiol 2005; 90(6):847-853.

62) Prolactin, a natriuretic hormone interacting with the renal dopamine system.

IBARRA F, CRAMBERT S, EKLÖF A-C, LUNDQUIST A, HANSELL P & HOLTBACK
Kidney Int. 2005; 68(4): 1700-1707.

61) The Effects of Carbon Dioxide versus Ioxaglate in the Rat Kidney

PALM F, BERGQUIST D, CARLSSON PO, HELLBERG O, NYMAN R, HANSELL P & LISS P.
J Vasc Inter Radiol 2005 Feb;16(2):269-74.

60) The influence of intraarterial injection of CO₂ and iodinated contrast media on renal function in patients undergoing renovascular intervention. A prospective randomized study.

LISS P, HELLBERG, O, HÄGG A, BOSTRÖM A, LÖFBERG AM, OLSSON U, ÖRND AHL P, NILSSON H, HANSELL P, ERIKSSON LG, BERGQUIST D, NYMAN R.
J Vasc Inter Radiol 2005 Jan;16(1):57-65.

59) Renal hyaluronan accumulation and hyaluronan synthase expression after ischemia-reperfusion injury in the rat.

GÖRANSSON V, JOHNSON C, JACOBSON A, HELDIN P, HÄLLGREN R & HANSELL P.
Nephrol. Dial. Transplant. 2004; 19: 823-830.

58) Polyol pathway dependent disturbances in renal metabolism in experimental insulin-deficient diabetes mellitus in rats.

PALM F, HANSELL P, RONQUIST G, WALDENSTRÖM A, LISS P, CARLSSON PO.
Diabetologia. 2004; 47(7):1223-1231.

57) Differentiating between effects of streptozotocin per se and subsequent hyperglycemia on renal function and metabolism in the streptozotocin-diabetic rat model.

PALM F, ORTSÄTER H, HANSELL P, LISS P & PO CARLSSON
Diabetes Metab Res Rev. 2004 Mar 22;20(6):452-459

56) Adenosine A₁ receptors in contrast media-induced renal dysfunction in the normal rat.

LISS P, CARLSSON P-O, PALM F & HANSELL P.
Eur Radiol. 2004; Jul;14(7):1297-1302.

55) Reactive oxygen species cause diabetes-induced decrease in renal oxygen tension.

PALM F, CEDERBERG J, HANSELL P, LISS P & CARLSSON P-O.
Diabetologia. 2003 Aug;46(8):1153-60.

54) Altered response in renal blood flow and oxygen tension to contrast media in diabetic rats.

PALM F, CARLSSON P-O, HANSELL P, HELLBERG O, NYGREN A, & LISS P.
Acta Radiol. 2003 May;44(3):347-53.

53) ET-A receptor antagonist BQ-123 prevents radio contrast media induced renal medullary hypoxia

LISS P, CARLSSON PO, NYGREN A, PALM F & HANSELL P.
Acta Radiol. 2003 Jan;44(1):111-117.

52) Reduced natriuretic response to acute sodium loading in COMT gene deleted mice.

ODLIND C, REENILÄ I, MÄNNISTÖ PT, JUVONEN R, UHLÉN S, GOGOS JA, KARAYIORGOU M & HANSELL P.
BMC Physiology 2002; 2:14.

51) Vasopressin and hypercalciuria in enuresis – a reappraisal.

NEVÉUS T, HANSELL P & STENBERG A.
Br. J. Urol. Int. 2002 Nov;90(7):725-9.

50) Renomedullary and intestinal hyaluronan content during body water excess. A comparative study in rats and gerbils.

GÖRANSSON V, JOHNSSON C, NYLANDER O & HANSELL P.
J. Physiol. 2002 Jul 1;542(Pt 1):315-22.

49) Transient glomerular hyperfiltration in the streptozotocin-diabetic Wistar Furth rat.

PALM F, LISS P, FASCHING A, HANSELL P & CARLSSON P-O.
Ups. J. Med. Sci. 2001; 106: 175-182

48) Renal cortical accumulation of hyaluronan in adult rats neonatally exposed to ACE inhibition.

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Main supervisor:

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SARA STRIDH

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LOUISE RÜGHEIMER

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CECILIA ODLIND

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VIKTORIA GÖRANSSON

Acta Universitatis Upsaliensis. 2001. *Comprehensive Summaries of Uppsala Dissertations from the Faculty of Medicine* No 1090. ISBN 91-554-5146-2.

Assistant supervisor:

1) The role of kidney oxygen homeostasis for the development of kidney disease.

CARLA CARVALHO

Acta Universitatis Upsaliensis 2019. *Digital Comprehensive Summaries of Uppsala Dissertations from the Faculty of Medicine* No 1581. ISBN 978-91-513-0691-9

2) Susceptibility to acute decompensated heart failure in two common mouse strains.

MEDIHA BECIROVIC-AGIC

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3) The role of angiotensin II in experimental acute kidney injury and cardiorenal failure.

SOFIA JÖNSSON

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LICENTIATE DISSERTATIONS

Main supervisor:

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SARA STRIDH

Uppsala University, Faculty of Medicine. **2011**.

2) Aspects on the regulation of renal hyaluronan during normal and diabetic conditions.

LOUISE RÜGHEIMER

Uppsala University, Faculty of Medicine. **2006**.

Assistant supervisor:

1) The role of angiotensin II in experimental acute kidney injury and cardiorenal failure.

SOFIA JÖNSSON

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MEDIHA BECIROVIC AGIC

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4) Mechanisms causing kidney hypoxia – possibilities to improve treatment for patients with chronic kidney disease.

EBBA SIVERTSSON

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PATRIK PERSSON

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JENNY EDLUND

Uppsala University, Faculty of Medicine. **2010.**

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MALOU FRIEDERICH

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