

Kirsten Madsen
Kardiovaskulær og Renal Forskning
Postadresse:
J.B. Winsløvs Vej 21, 3.
5000
Odense C
Danmark
E-mail: kmadsen@health.sdu.dk
Fax: 66133479
Telefon: 65503756

Uddannelse

2018 Speciallæge i patologi
2014 Universitetspædagogikum, Syddansk Universitet
2009 Ph.d. grad, Det Sundhedsvidenskabelige Fakultet, Syddansk Universitet
2005 Cand.med., Det Sundhedsvidenskabelige Fakultet, Syddansk Universitet

Ansættelser

2018-dd. Afdelingslæge, Afdeling for Klinisk Patologi, Odense Universitetshospital
2017-dd. Lektor, Kardiovaskulær og Renal Forskning, Syddansk Universitet
2012-2018 Reservelæge og 1. reservelæge, Afdeling for Klinisk Patologi, Odense Universitetshospital og Herlev Hospital
2012-2017 Adjunkt, Kardiovaskulær og Renal Forskning, Syddansk Universitet
2011-2012 Post doc, Kardiovaskulær og Renal Forskning, Syddansk Universitet
2010-2011 Reservelæge, Afdeling for Klinisk Patologi, Odense Universitetshospital og post doc, Kardiovaskulær og Renal Forskning, Syddansk Universitet
2009-2010 Post doc, Division of Nephrology, Emory University School of Medicine, Atlanta, USA
2008-2009 Reservelæge, Ortopædkirurgisk og Medicinsk Afdeling, Vejle Sygehus
2005-2008 Ph.d. studerende, Kardiovaskulær og Renal Forskning, Syddansk Universitet

Administration

2018-dd. Medlem af Studienævnet for Medicin, Det Sundhedsvidenskabelige Fakultet, Syddansk Universitet
2006-dd. Interviewer ved kvote 2 optagelse til medicinstudiet, Det Sundhedsvidenskabelige Fakultet, Syddansk Universitet
2007-2008 Medlem af ph.d. studienævnet, Det Sundhedsvidenskabelige Fakultet, Syddansk Universitet

Videnskabelige priser

2016 Young Investigator Travel Award, Federation of American Societies for Experimental Biology
2012 Mommsens Legat, Dansk Nefrologisk Selskabs hæderspris
2007 Young Investigator Travel Award, Federation of American Societies for Experimental Biology
2007 Videnskabsministeriets EliteForsk Rejsestipendie

Møder og præsentationer

Deltaget i 44 nationale og internationale møder med i alt 17 posterpræsentationer og 12 foredrag. Herudover inviteret foredragsholder ved 5 internationale møder/kongresser.

Publikationer

Renoprotective effects of cardiotrophin-1 in a mouse model of chronic kidney disease
Madsen, K., jun. 2019, I: Acta Physiologica. 226, 2, 2 s., e13274.

Altered expression of the renal prostaglandin E2 signaling system in kidney tissue from patients suffering from hydronephrosis and renal fibrosis
Tofteng, S. S., Mogensen, A. K., Toft, A., Jensen, B. L. & Madsen, K., 15. sep. 2018.

Pazopanib-Induced Hypertension in Patients With Renal Cell Carcinoma Is Associated With Low Urine Excretion of NO Metabolites

Tinning, A. R., Bengtsen, C., Jensen, N. V., Bastholt, L., Jensen, B. L. & Madsen, K., mar. 2018, I: Hypertension. 71, 3, s. 473-480

Interference with Gsc-Coupled Receptor Signaling in Renin-Producing Cells Leads to Renal Endothelial Damage

Lachmann, P., Hickmann, L., Steglich, A., Al-Mekhlafi, M., Gerlach, M., Jetschin, N., Jahn, S., Hamann, B., Wnuk, M., Madsen, K., Djonov, V., Chen, M., Weinstein, L. S., Hohenstein, B., Hugo, C. P. M. & Todorov, V. T., 2017, I : Journal of the American Society of Nephrology. 28, 12, s. 3479–3489

Impaired cyclooxygenase-2 expression leads to aggravated renal fibrosis in response to unilateral ureteral obstruction in mice

Tofteng, S. S., Madsen, K., Nilsson, L., Jensen, B. L. & Nørregaard, R., 10. okt. 2016.

Long-term use of lithium and risk of colorectal adenocarcinoma: a nationwide case-control study

Pottegård, A., Ennis, Z. N., Hallas, J., Jensen, B. L., Madsen, K. & Friis, S., 1. mar. 2016, I : B J C. 114, 5, s. 571-575

Accuracy and consequences of same-day, invasive lung cancer workup: a retrospective study in patients treated with surgical resection

Madsen, K. R., Høegholm, A. & Bodtger, U., 2016, I : European Clinical Respiratory Journal. 3, 1, 8 s., 32590.

Tyrosine kinase inhibitor-induced hypertension in patients diagnosed with renal cell carcinoma is associated with decreased urinary excretion of NO metabolites"

Madsen, K., Robdrup Tinning, A., Bastholt, L. & Jensen, B. L., 2016.

Vascular endothelial growth factor signaling is necessary for expansion of medullary microvessels during postnatal kidney development

Robdrup Tinning, A., Jensen, B. L., Johnsen, I., Chen, D., Coffman, T. M. & Madsen, K., 2016, I : American Journal of Physiology: Renal Physiology. 311, 3, s. F586-F599

Chronic use of lithium is safe with regard to the development of kidney and urinary tract cancers

Pottegård, A., Hallas, J., Jensen, B. L., Madsen, K. & Friid, S., 2015, I : Pharmacoepidemiology and Drug Safety. 24, S1, s. 32 1 s., 54.

Disruption of cyclooxygenase type 2 exacerbates apoptosis and renal damage during obstructive nephropathy

Nilsson, L., Madsen, K., Krag, S., Frøkiær, J., Jensen, B. L. & Nørregaard, R., 2015, I : American Journal of Physiology: Renal Physiology. 309, 12, s. F1035-F1048

Genetic deletion of cyclooxygenase-2 impairs glomerular slit diaphragm formation during late stages of kidney development

Madsen, K., Marcussen, N. & Jensen, B. L., 2015.

Long-Term Lithium Use and Risk of Renal and Upper Urinary Tract Cancers

Pottegård, A., Hallas, J., Jensen, B. L., Madsen, K. & Friis, S., 2015, I : Journal of the American Society of Nephrology. 27, 7 s.

Patterning of renal medullary vasa recta bundles takes place in a narrow developmental window in rats and humans and is dependent on Angiotensin II AT1

Robdrup Tinning, A., Jensen, B. L., Johnsen, I. B. G., Chen, D. A., Coffman, T. & Madsen, K., 2015, I : F A S E B Journal. 29, S1, 796.1 .

Impaired Cyclooxygenase-2 Expression Leads to Aggravated Renal Fibrosis in Response to Unilateral Ureteral Obstruction in Mice

Madsen, K., Tofteng, S. S., Nilsson, L., Jensen, B. L. & Nørregaard, R., nov. 2014, I : Journal of the American Society of Nephrology. 25, s. 728A 1 s., SA-PO405.

Lithium induces microcysts and polyuria in adolescent rat kidney independent of cyclooxygenase-2

Kjærsgaard, G., Madsen, K., Marcussen, N. & Jensen, B. L., 1. jan. 2014, I : Physiological Reports. 2, 1, e00202.

Disruption of cyclooxygenase type 2 exacerbates the progression of oxidative stress during obstructive nephropathy
Nilsson, L., Madsen, K., Jensen, B. L. & Norregaard, R., 2014, I : F A S E B Journal. 28, 1, 1 s., 1134.2.

Impaired Cyclooxygenase-2 Expression Leads to Aggravated Renal Fibrosis in Response to Unilateral Ureteral Obstruction in Mice

Madsen, K., Tofteng, S. S., Nilsson, L., Jensen, B. L. & Nørregaard, R., 2014. 1 s.

The water channel aquaporin-1 contributes to renin cell recruitment during chronic stimulation of renin production

Tinning, A. R., Jensen, B. L., Schweda, F., Machura, K., Hansen, P. B. L., Stubbe, J., Gramsbergen, J. B. & Madsen, K., 2014, I : American Journal of Physiology: Renal Physiology. 307, 11, s. F1215-F1226

Loss of collectrin, an angiotensin-converting enzyme 2 homolog, uncouples endothelial nitric oxide synthase and causes hypertension and vascular dysfunction

Cechova, S., Zeng, Q., Billaud, M., Mutchler, S., Rudy, C. K., Straub, A. C., Chi, L., Chan, F. R., Hu, J., Griffiths, R., Howell, N. L., Madsen, K., Jensen, B. L., Palmer, L. A., Carey, R. M., Sung, S-S. J., Malakauskas, S. M., Isakson, B. E. & Le, T. H., 15. okt. 2013, I : Circulation. 128, 16, s. 1770-80

Deletion of Cyclooxygenase-2 in the mouse increases arterial blood pressure with no impairment in renal NO production in response to chronic high salt intake

Stæhr, M., Hansen, P. B. L., Madsen, K., Vanhoutte, P. M., Nüsing, R. M. & Jensen, B. L., 27. mar. 2013, I : American Journal of Physiology: Regulatory, Integrative and Comparative Physiology. 304, 10, s. R899-R907

Inhibition of cyclooxygenase-2 does not ameliorate lithium-induced renal microcystic injury and polyuria in adolescent rat

Madsen, K., Jensen, B. L., Marcussen, N. & Kjærsgaard, G., 2013.

Nutritional intervention restores muscle but not kidney phenotypes in adult calcineurin α null mice

Madsen, K., Reddy, R. N., Price, S. R., Williams, C. R. & Gooch, J. L., 2013, I : P L o S One. 8, 4, s. e62503

Regulation of renin secretion by renal juxtaglomerular cells

Friis, U. G., Madsen, K., Stubbe, J., Hansen, P. B. L., Svenningsen, P., Bie, P., Skøtt, O. & Jensen, B. L., 2013, I : Pflügers Archiv - European Journal of Physiology. 465, 1, s. 25-37

The renin-angiotensin system; development and differentiation of the renal medulla

Madsen, K., Robdrup Tinning, A., Marcussen, N. & Jensen, B. L., 2013, I : Acta Physiologica (Print). 208, 1, s. 41-49

Disruption of cyclooxygenase-2 prevents down-regulation of cortical AQP2 and AQP3 in response to bilateral ureteral obstruction in the mouse

Nilsson, L., Madsen, K., Topcu, S. O., Jensen, B. L., Frokiaer, J. & Norregaard, R., 2012, I : American Journal of Physiology: Renal Physiology. 302, 11, s. F1430-F1439

Tissue injury after lithium treatment in human and rat postnatal kidney involves glycogen synthase kinase 3 β -positive epithelium

Kjærsgaard, G., Madsen, K., Marcussen, N., Christensen, S., Walter, S. & Jensen, B. L., 2012, I : American Journal of Physiology: Renal Physiology. 302, 4, s. F455-F465

Structural Injury after Lithium Treatment in Human and Rat Kidney involves Glycogen Synthase Kinase-3 β Positive Epithelium

Kjærsgaard, G., Madsen, K., Marcussen, N., Christensen, S., Walther, S. & Jensen, B. L., 27. mar. 2011.

COX-2 disruption leads to increased central vasopressin stores and impaired urine concentrating ability in mice

Nørregaard, R., Madsen, K., Hansen, P. B. L., Bie, P., Thavalingam, S., Frøkiær, J. & Jensen, B. L., 2011, I : American Journal of Physiology: Renal Physiology. 301, 6, s. F1303-13

Disruption of COX-2 and eNOS does not confer protection from cardiovascular failure in lipopolysaccharide-treated conscious mice and isolated vascular rings

Stæhr, M., Madsen, K., Vanhoutte, P. M., Hansen, P. B. & Jensen, B. L., 2011, I : American Journal of Physiology: Regulatory, Integrative and Comparative Physiology. 301, 2, s. R412-20

Stimulation of Renin Secretion by Catecholamines Is Dependent on Adenylyl Cyclases 5 and 6

Aldehni, F., Tang, T., Madsen, K., Plattner, M., Schreiber, A., Friis, U. G., Hammond, H. K., Han, P. L. & Schweda, F., 2011, I : Hypertension. 57, 3, s. 460-U232

Targeted disruption of aquaporin - 1 leads to impaired recruitment of juxtaglomerular cells and lower plasma renin concentration in response to chronic stimulation

Madsen, K., 2011.

Lithium Impairs Kidney Development and Inhibits Glycogen Synthase Kinase-3 β in Collecting Duct Principal Cells

Kjærsgaard, G., Madsen, K., Marcussen, N. & Jensen, B. L., 18. nov. 2010.

Angiotensin II promotes development of the renal microcirculation through AT1 receptors

Madsen, K., Marcussen, N., Pedersen, M., Kjærsgaard, G., Facemire, C., Coffman, T. M. & Jensen, B. L., 1. mar. 2010, I : Journal of the American Society of Nephrology. 21, 3, s. 448-59 12 s.

Increased renin production in mice with deletion of peroxisome proliferator-activated receptor-gamma in juxtaglomerular cells

Desch, M., Schreiber, A., Schweda, F., Madsen, K., Friis, U. G., Weatherford, E. T., Sigmund, C. D., Sequeira Lopez, M. L., Gomez, R. A. & Todorov, V. T., 1. mar. 2010, I : Hypertension Frontier. 55, 3, s. 660-6 7 s.

High-level connexin expression in the human juxtaglomerular apparatus

Kurtz, L., Madsen, K., Kurt, B., Jensen, B. L., Walter, S., Banas, B., Wagner, C. & Kurtz, A., 1. jan. 2010, I : NEPHRON PHYSIOLOGY. 116, 1, s. 1-8

Inhibition of calcineurin phosphatase promotes exocytosis of renin from juxtaglomerular cells

Madsen, K., Friis, U. G., Gooch, J. L., Hansen, P. B., Holmgaard, L., Skøtt, O. & Jensen, B. L., 1. jan. 2010, I : Kidney International. 77, 2, s. 110-7 8 s.

Apical serine protease activity is necessary for assembly of a high-resistance renal collecting duct epithelium

Steensgaard, M., Svenningsen, P., Tinning, A. R., Nielsen, T. D., Jørgensen, F., Kjærsgaard, G., Madsen, K. & Jensen, B. L., 2010, I : Acta Physiologica (Print Edition). 200, 4, s. 347-359

Hypotonicity-induced Renin exocytosis from juxtaglomerular cells requires aquaporin-1 and cyclooxygenase-2

Friis, U. G., Madsen, K., Svenningsen, P., Hansen, P. B. L., Gulaveerasingam, A., Jørgensen, F., Aalkjaer, C., Skøtt, O. & Jensen, B. L., 1. okt. 2009, I : Journal of the American Society of Nephrology. 20, 10, s. 2154-61 7 s.

Differential effects of immunosuppressive drugs on COX-2 activity in vitro and in kidney transplant patients in vivo

Jespersen, B., Thiesson, H., Henriksen, C., Therland, K., Falk, C., Poulsen, T., Fogh, B., Madsen, K., Walter, S. & Jensen, B. L., 1. maj 2009, I : Nephrology, Dialysis, Transplantation. 24, 5, s. 1644-55 11 s.

The renin angiotensin system and kidney development: novel mechanisms of renin release and angiogenic function of angiotensin II

Madsen, K., 2009, Syddansk Universitet. Det Sundhedsvidenskabelige Fakultet.

Postnatal adrenalectomy impairs urinary concentrating ability by increased COX-2 and leads to renal medullary injury.

Stubbe, J., Madsen, K., Nielsen, F. T., Bonde, R. K., Skøtt, O. & Jensen, B. L., 1. sep. 2007, I : American Journal of Physiology - Renal Physiology. 293, 3, s. F780-F789 10 s.

Glucocorticoid impairs growth of kidney outer medulla and accelerates loop of Henle differentiation and urinary concentrating capacity in rat kidney development.

Stubbe, J., Madsen, K., Nielsen, F. T., Skøtt, O. & Jensen, B. L., 1. okt. 2006, I : American Journal of Physiology - Renal Physiology. 291, 4, s. F812-822 10 s.

Effects of lengthening contraction on calcium kinetics and skeletal muscle contractility in humans

Nielsen, J. S., Madsen, K., Jørgensen, L. V. & Sahlin, K., 2005, I : Acta Physiologica Scandinavica. 184, 3, s. 203-14

Low endogenous glucocorticoid allows induction of kidney cortical cyclooxygenase-2 during postnatal rat development

Madsen, K., Stubbe, J., Skøtt, O., Yang, T., Bachmann, S. & Jensen, B. L., 2004, I : American Journal of Physiology - Renal Physiology. 286, 1, s. f26-f37 11 s.