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Endocrinology  
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## Curriculum Vitae

### Current positions and places of work

Head of Research, Clinical Professor in Diabetes, Consultant, Steno Diabetes Center Odense, Odense University Hospital and Department of Clinical Research, University of Southern Denmark (SDU), DK-5000 Odense, Denmark  
Adjunct Professor, Department of Nutrition, Exercise and Sports, Copenhagen University.

### Academic education:

Jun 1995: Diploma in Medical Research, Odense University.  
Jan 1996: Masters Degree in Health Sciences, Medicine, Odense University. Average Mark 10.4 (13 scale).  
Nov 2003: Degree of PhD in Health Sciences, Medical Endocrinology, SDU.  
Jan 2011: Completed "Research Management Course" at Copenhagen Business School.  
May 2014: Doctoral degree (DMSc) at the Faculty of Health Sciences, SDU

### Clinical and academic appointments and specialist authorization:

1996-2003: House Officer, Svendborg Sygehus, Funen County, Dept. of Endocrinology, Odense University Hospital and Dept. of Internal Medicine, Odense University Hospital  
2003-2005: Senior House Officer, Depts. of Internal Medicine/Endocrinology, Odense University Hospital  
2005-2009: Senior Registrar/post.doc (50/50%). Dept. of Endocrinology, Odense University Hospital  
2009-2014: Consultant/associate professor (50/50%), Dept. of Endocrinology, Odense University Hospital  
2014-2018: Consultant/professor (50/50%), Dept. of Endocrinology, Odense University Hospital  
2018-xxxx: Consultant/professor (50/50%), Steno Diabetes Center Odense, Odense University Hospital  
Nov 2008: Specialist in Medical Endocrinology.

### Administrative work including research leadership past 5 years:

2002-xxxx: Part of the EGIR project Relationship between Insulin Sensitivity and Cardiovascular Disease (RISC) funded by the EU 5th Framework  
2008-2013: Member of the Board and Secretary for the Danish Endocrine Society (DES)  
2008-xxxx: Member of the Board for the Society for the Study of Diabetes in Scandinavian (SSSD)  
2011-xxxx: Member of the Steering Committee for the FFARMED Project funded by the Danish Research Council for Strategic Research  
2011- 2016: Sapere Aude DFF-Research Leader, Institute of Clinical Research, SDU  
2012+2017: Chief-organizer of the 47th and the 52th Annual Meeting in SSSD  
2012-xxxx: Member of the Board of the Danish Diabetes Academy  
2012-xxxx: Chairman of the Consultative Council in the Danish Diabetes Academy  
2013-xxxx: Member of the Regional Council of Endocrinology (Specialerådet) in Region Syddanmark  
2014-xxxx: Member of the Scientific Evaluation Committee for Lægeforeningens Forskningsfond  
2015: Organizer of the "Skeletal muscle Proteome" session at 14th Human Proteome Organization World Congress – HUPO, September 27-30, 2015. Vancouver, Canada.  
2016-xxxx: Member of the working group for the National Guidelines for treatment of type 2 diabetes by the Danish Endocrine Society (DES) and The Danish College of General Practitioners.  
2016-xxxx: Member of the working group for NBV (National BehandlingsVejledninger) of type 2 diabetes, Danish Endocrine Society (DES).  
2016-xxxx: Member of the Diabetes Council in the Danish Diabetes Association.

### Referee work:

For > 35 different journals in the areas of diabetes, endocrinology, metabolism and proteomics.  
Referee for Diabetes UK Grant Review 2006; Referee for Wellcome Trust Grant Review 2006; Referee for Agence Nationale de la Recherche (French National Agency) 2008, 2011, 2012; Member of the evaluation committee for Ph.D mobility stipends at Copenhagen University 2010; Referee for the Villum Foundation 2011; Referee for the ERC Consolidator Grant 2014; The Netherlands Organisation for Health Research and Development/Scientific Research 2014, 2016; European Foundation for the Study of Diabetes (EFSD) 2015.

Official opponent of 24 PhD theses and 1 doctoral dissertation in Denmark.

#### **Scientific Awards:**

Sehested-Hansen Foundation Honor Bursary (2003)  
Bagger-Sørensen Foundation Honor Bursary (2003)  
Helmar Lausten's Memorial Bursary (appointed by the Danish Diabetes Association) (2004)  
Young Investigators Award of the SSSD (2007)  
Niels Schwartz-Sørensen's Honorary Prize (2010)  
Sawmill owner Jeppe Juhl and wife Ovita Juhls Memorial Bursary (2016)

#### **Academic work abroad:**

MRC Protein Phosphorylation Unit, Dundee University, Dundee, UK 2003 and 2004 (5 weeks) Post.doc position at Professor Lawrence Mandarinos lab, Center for Metabolic Biology, Arizona State University from August 2006 to February 2007, and again in from February to March 2008.

#### **Major external funding as main applicant (>1.000.000 Dkr)**

2005: Danish Medical Research Council 1.001.915 Dkr  
2009: Danish Medical Research Council 1.791.474 Dkr  
2009: Novo Nordic Excellence Grant: 5.000.000 Dkr.  
2011: Sapere Aude, DFF Starting Grant 8.571.866 Dkr  
2013: SDU 2020, 2.221.000 Dkr  
2015: Novo Nordisk Foundation: 3.000.000 Dkr  
2016: Sawmill owner Jeppe Juhl and wife Ovita Juhl Memorial Bursary 1.000.000 Dkr

#### **Chairman:**

Annual Meetings of the DES (2005, 2006, 2009, 2011, 2014) and SSSD (2007, 2008, 2012, 2015, 2017)  
Courses arranged by the Danish PhD School of Molecular Metabolism/Danish Diabetes Academy (2005-2017)  
EASD/ADA-symposium "Mitochondrial Biology in Human Diabetes and Metabolic Diseases (EASD 2012)  
"Skeletal muscle Proteome" session at 14th Human Proteome Organization World Congress (HUPO 2015)

#### **Official opponent of 25 PhD theses and 1 doctoral dissertation:**

2005: Louise Ambye, Copenhagen University (KU). 2009: Rasmus Rabøl, KU; Charlotte Brøns, KU; Amra C. Alibegovic, KU. 2010: Rasmus Pold, Aarhus University (AAU); Lise Højbjerg, KU. 2011: Martin Friedrichsen, KU. 2012: Søren Naaby Hansen (DMSc), AAU; Kathrine Bagge, KU; Anna Pietraszek, AAU. 2013: Morten Møller Poulsen, AAU; Kristoffer S. Burgdorf, KU. Heidi Wolden-Kirk, SDU (Chair). 2014: Stina Anthonson, RUC; Karen Fjeldborg, AAU. 2015: Malin L. Rasmussen, SDU (Chair); Søren Møller Madsen, AAU. 2016: Andreas B. Møller, AAU; Rok Asmina, SDU (Chair); Line B Dalgaard, SDU (Chair); Sofie H. Rønn, AAU. 2017: Thomas Voss, AAU; Annett H Rasmussen, SDU (Chair). 2018: Ditte Søgaard, KU; Peter Breining, AAU; Mads Svart, AAU.

#### **Supervisor for Ph.D. students and Postdocs:**

Completed: Vibe Skov 2007, Martin Hey-Mogensen 2009, Birgitte F. Vind 2010, Xiaolu Zhao and Louise Frederiksen 2011, Lene Sønder 2012, Steffen Bak and Andreas J.T.Pedersen 2014, Mette Wod, Zuzana Vlachocva and Tore B. Stage 2015, Rikke Kruse, Line V. Magnussen, Sofia B. Mikkelsen 2016. Magda Altionok, Mette Lundgren Nielsen 2017. Rugivan Sabaratnam 2018. Post.docs: Stine J. Petersson 2014, Jonas M Kristensen 2015.  
Current: Maria Blicher, Tine B. Nielsen, Karina V. Sørensen, Han-Chow Koh, Jens-Jacob Lauterlein, Maria H. Petersen, Eva Kampmann-Gram. Post.docs: Michaela Tencerova, Rikke Kruse

#### **Teaching:**

1997-2018: Course in Human Pathophysiology, SDU  
2000-2004: A-course in Endocrinology, Odense University Hospital  
1999-2018: Different pregraduate courses in medical endocrinology, Odense University Hospital  
2002-2018: Different Ph.d.-courses at the Danish PhD School of Molecular Metabolism, SDU, now taken over by the Danish Diabetes Academy.  
2009-2012: Ph.d-course at the Ph.d School of Endocrinology, University of Southern Denmark  
2011-2012: Workshop in Molecular Metabolism and Endocrinology Workshop, Ph.D School, AAU  
2012-2014: Courses at the The Institute of Sports Science and Clinical Biomechanics, SDU  
2013-2013: Ph.D. course in "Molecular Physiology and Metabolism in exercise and health", KU

#### **Publications**

Total number of peer reviewed publications: 144. Subjects covering mostly diabetes, endocrinology, metabolism and proteomics. Citations=6100, h-index=42 (Web of Science).

#### **Research outputs**

**Acute exercise increases plasma levels of muscle-derived microvesicles carrying fatty acid transport proteins**

Nielsen, M. H., Sabaratnam, R., Pedersen, A. J. T., Højlund, K. & Handberg, A., 1. Oct 2019, In : The Journal of clinical endocrinology and metabolism. 104, 10, p. 4804-4814

**Exercise induction of key transcriptional regulators of metabolic adaptation in muscle is preserved in type 2 diabetes**

Sabaratnam, R., Pedersen, A. J., Eskildsen, T. V., Kristensen, J. M., Wojtaszewski, J. F. P. & Højlund, K., 1. Oct 2019, In : The Journal of clinical endocrinology and metabolism. 104, 10, p. 4909-4920

**In human nephrectomy specimens, the kidney level of tubular transport proteins does not correlate with their abundance in urinary extracellular vesicles**

Sabaratnam, R., Geertsen, L., Skjødt, K., Højlund, K., Dimke, H., Lund, L. & Svenningsen, P., 1. Sep 2019, In : American Journal of Physiology: Renal Physiology. 317, 3, p. F560-F571

**Fatty Liver Among Adolescent Offspring of Women With Type 1 Diabetes (the EPICOM Study)**

Knorr, S., Bytoft, B., Lohse, Z., Boisen, A. B., Clausen, T. D., Jensen, R. B., Damm, P., Beck-Nielsen, H., Holst, J. J., Hartmann, B., Møller, H. J., Højlund, K., Gravholt, C. H. & Jensen, D. M., Aug 2019, In : Diabetes Care. 42, 8, p. 1560-1568

**Obesity-Associated Hypermetabolism and Accelerated Senescence of Bone Marrow Stromal Stem Cells Suggest a Potential Mechanism for Bone Fragility**

Tencerova, M., Frost, M., Figeac, F., Nielsen, T. K., Ali, D., Lauterlein, J. J. L., Andersen, T. L., Haakonsson, A. K., Rauch, A., Madsen, J. S., Ejersted, C., Højlund, K. & Kassem, M., 14. May 2019, In : Cell Reports. 27, 7, p. 2050-2062.e6

**Differential methylation of the type 2 diabetes susceptibility locus KCNQ1 is associated with insulin sensitivity and is predicted by CpG site specific genetic variation**

for the RISC consortium, Feb 2019, In : Diabetes Research and Clinical Practice. 148, p. 189-199

**DECODE EYE - Ocular and systemic complications in diabetic retinopathy**

Grauslund, J., Suhr Thykjær, A., Stokholm, L., Højlund, K., Kawasaki, R., Møller, G., Kyvik, K. O., Dornonville de la Cour, M., Kessel, L. & Rubin, K. H., 2019.

**Transcriptional and epigenetic changes influencing skeletal muscle metabolism in women with polycystic ovary syndrome**

Nilsson, E., Benrick, A., Kokosar, M., Krook, A., Lindgren, E., Källman, T., Martis, M. M., Højlund, K., Ling, C. & Stener-Victorin, E., 1. Dec 2018, In : The Journal of clinical endocrinology and metabolism. 103, 12, p. 4465-4477

**First Genome-Wide Association Study of Latent Autoimmune Diabetes in Adults Reveals Novel Insights Linking Immune and Metabolic Diabetes**

Groop, L. C., Leslie, R. D., Grant, S. F. A. & Bone Mineral Density in Childhood Study, Nov 2018, In : Diabetes Care. 41, 11, p. 2396-2403

**Proteomic study of skeletal muscle in obesity and type 2 diabetes: progress and potential**

Kruse, R. & Højlund, K., 3. Oct 2018, In : Expert Review of Proteomics. 15, 10, p. 817-828

**Mitochondria, glycogen, and lipid droplets in skeletal muscle during testosterone treatment and strength training: a randomized, double-blinded, placebo-controlled trial**

Jensen, R. C., Lehman Christensen, L., Nielsen, J., Schrøder, H. D., Kvorning, T., Gejl, K. D., Højlund, K., Glinborg, D. & Andersen, M., Jul 2018, In : Journal of Andrology. 6, 4, p. 547-555

**Intact regulation of muscle expression and circulating levels of myokines in response to exercise in patients with type 2 diabetes**

Sabaratnam, R., Pedersen, A. J. T., Kristensen, J. M., Handberg, A., Wojtaszewski, J. F. P. & Højlund, K., 1. Jun 2018, In : Physiological Reports. 6, 12, 12 p., e13723.

**Renal function markers and insulin sensitivity after 3 years in a healthy cohort, the EGIR-RISC study**

Siméon, S., Massy, Z., Højlund, K., Lalic, K., Porcellati, F., Dekker, J., Petrie, J., Currie, G. & Balkau, B., 31. May 2018, In : BMC Nephrology. 19, 12 p., 124.

**Skeletal muscle O-GlcNAc transferase is important for muscle energy homeostasis and whole-body insulin sensitivity**

Shi, H., Munk, A., Nielsen, T. S., Daughtry, M. R., Larsson, L., Li, S., Høyer, K. F., Geisler, H. W., Sulek, K., Kjøbsted, R., Fisher, T., Andersen, M. M., Shen, Z., Hansen, U. K., England, E. M., Cheng, Z., Højlund, K., Wojtaszewski, J. F. P., Yang, X., Hulver, M. W. & 3 others, Helm, R. F., Treebak, J. T. & Gerrard, D. E., 1. May 2018, In : *Molecular Metabolism*. 11, p. 160-177

**Lower mortality and cardiovascular event rates in patients with latent autoimmune diabetes in adults (LADA) as compared with type 2 diabetes and insulin deficient diabetes: A Cohort Study of 4,368 Patients.**

Wod, M., Thomsen, R. W., Yderstræde, K. B., Beck-Nielsen, H., Højlund, K. & Pedersen, L., May 2018, In : *Diabetes Research and Clinical Practice*. 139, p. 107–113

**Adrenal activity and metabolic risk during randomized escitalopram or placebo treatment in PCOS**

Glintborg, D., Altinok, M. L., Ravn, P., Stage, K. B., Højlund, K. & Andersen, M., 1. Mar 2018, In : *Endocrine Connections*. 7, 3, p. 479-489

**Differential effects of age and sex on insulin sensitivity and body composition in adolescent offspring of women with type 1 diabetes: results from the EPICOM study**

Lohse, Z., Knorr, S., Bytoft, B., Clausen, T. D., Jensen, R. B., Oturai, P., Beck-Nielsen, H., Gravholt, C. H., Damm, P., Højlund, K. & Jensen, D. M., Jan 2018, In : *Diabetologia*. 61, 1, p. 210–219

**Easy, Fast, and Reproducible Quantification of Cholesterol and Other Lipids in Human Plasma by Combined High Resolution MSX and FTMS Analysis**

Gallego, S. F., Højlund, K. & Ejsing, C. S., Jan 2018, In : *Journal of the American Society for Mass Spectrometry*. 29, 1, p. 34–41

**The relationship between bone turnover and insulin sensitivity and secretion: Cross-sectional and prospective data from the RISC cohort study**

Frost, M., Balkau, B., Hatunic, M., Konrad, T., Mingrone, G. & Højlund, K., 2018, In : *Bone*. 108, p. 98-105

**Abnormal levels of adipokines in adolescent offspring of women with type 1 diabetes – Results from the EPICOM study**

Lohse, Z., Bytoft, B., Knorr, S., Clausen, T. D., Beck Jensen, R., Beck-Nielsen, H., Hermann, A. P., Oturai, P. S., Frystyk, J., Damm, P., Gravholt, C. H., Højlund, K. & Jensen, D. M., 2017, In : *Metabolism*. 72, p. 47-56

**Autonomic nervous system activation mediates the increase in whole-body glucose uptake in response to electroacupuncture**

Benrick, A., Kokosar, M., Hu, M., Larsson, M., Maliqueo, M., Marcondes, R. R., Soligo, M., Protto, V., Jerlhag, E., Sazonova, A., Behre, C. J., Højlund, K., Thorén, P. & Stener-Victorin, E., 2017, In : *F A S E B Journal*. 31, 8, p. 3288-3297

**Characterization of the CLASP2 Protein Interaction Network Identifies SOGA1 as a Microtubule-Associated Protein**

Sørensen, R. K., Krantz, J., Barker, N., Coletta, R., Rafikov, R., Luo, M., Højlund, K., Mandarino, L. J. & Langlais, P. R., 2017, In : *Molecular and Cellular Proteomics*. 16, 10, p. 1718-1735

**Effects of insulin and exercise training on FGF21, its receptors and target genes in obesity and type 2 diabetes**

Sørensen, R. K., Vienberg, S. G., Vind, B. F., Andersen, B. & Højlund, K., 2017, In : *Diabetologia*. 60, 10, p. 2042–2051

**Intact initiation of autophagy and mitochondrial fission by acute exercise in skeletal muscle of patients with Type 2 diabetes**

Kruse, R., Pedersen, A. J. T., Kristensen, J. M., Petersson, S. J., Wojtaszewski, J. & Højlund, K., 2017, In : *Clinical Science*. 131, 1, p. 37-47

**Metabolic risk profiles in diabetes stratified according to age at onset, islet autoimmunity and fasting C-peptide**

Wod, M., Yderstræde, K. B., Halekoh, U., Beck-Nielsen, H. & Højlund, K., 2017, In : *Diabetes Research and Clinical Practice*. 134, p. 62-71

**Microvesicles Correlated with Components of Metabolic Syndrome in Men with Type 2 Diabetes Mellitus and Lowered Testosterone Levels but Were Unaltered by Testosterone Therapy**

Botha, J., Velling Magnussen, L., Nielsen, M. H., Nielsen, T. B., Højlund, K., Andersen, M. S. & Handberg, A., 2017, In : Journal of Diabetes Research. 2017, 9 p., 4257875.

**Mitochondrial phosphoproteomics of mammalian tissues**

Kruse, R. & Højlund, K., 2017, In : Mitochondrion. 33, p. 45–57

**MR-spectroscopy of hepatic-fat and adiponectin and leptin levels during testosterone therapy in type 2 diabetes: A randomized, double-blinded, placebo-controlled trial**

Magnussen, L. V., Andersen, P. E., Diaz, A., Ostojic, J. M., Højlund, K., Hougaard, D. M., Christensen, A. N., Nielsen, T. L. & Andersen, M. S., 2017, In : European Journal of Endocrinology. Supplement. 177, 2, p. 157-168

**Statement of Retraction. The SNARE Protein SNAP23 and the SNARE-Interacting Protein Munc18c in Human Skeletal Muscle Are Implicated in Insulin Resistance/Type 2 Diabetes. Diabetes 2010;59:1870-1878. DOI: 10.2337/db09-1503. PMID: 20460426**

Boström, P., Andersson, L., Vind, B., Håversen, L., Rutberg, M., Wickström, Y., Larsson, E., Jansson, P-A., Svensson, M. K., Brånemark, R., Ling, C., Beck-Nielsen, H., Borén, J., Højlund, K. & Olofsson, S-O., 2017, In : Diabetes. 66, 5, p. 1426 1 p.

**The heterozygous N291S mutation in the lipoprotein lipase gene impairs whole-body insulin sensitivity and affects a distinct set of plasma metabolites in humans**

Berg, S. M., Havelund, J. F., Hasler-Sheetal, H., Kruse, V. H. K., Pedersen, A. J. T., Hansen, A. B., Nybo, M., Beck-Nielsen, H., Højlund, K. & Færgeman, N. J., 2017, In : Journal of Clinical Lipidology. 11, 2, p. 515-523

**The Human Skeletal Muscle Proteome Project: a reappraisal of the current literature**

Gonzalez-Freire, M., Semba, R. D., Ubaida-Mohien, C., Fabbri, E., Scalzo, P., Højlund, K., Dufresne, C., Lyashkov, A. & Ferrucci, L., 2017, In : Journal of Cachexia, Sarcopenia and Muscle. 8, 1, p. 5-18

**Metabolic Risk Profiles in Diabetes Stratified According to Age at Onset, Islet Autoimmunity and Fasting C-peptide**

Wod, M., Yderstræde, K. B. & Højlund, K., 12. Jun 2016.

**Beta-cell function is associated with carotid intima-media thickness independently of insulin resistance in healthy individuals**

Roussel, R., Natali, A., Balkau, B., Højlund, K., Sánchez, G., Nolan, J., Mari, A., Kozakova, M. & Bonnet, F., 2016, In : Journal of Hypertension. 34, 4, p. 685-691

**Changes in HbA1c and circulating and adipose tissue androgen levels in overweight-obese women with polycystic ovary syndrome in response to electroacupuncture**

Stener-Victorin, E., Maliqueo, M., Soligo, M., Protto, V., Manni, L., Jerlhag, E., Kokosar, M., Sazonova, A., Behre, C. J., Lind, M., Ohlsson, C., Højlund, K. & Benrick, A., 2016, In : Obesity Science & Practice. 2, 4, p. 426-435

**Effect of testosterone on insulin sensitivity, oxidative metabolism and body composition in aging men with type 2 diabetes on metformin monotherapy**

Magnussen, L. V., Glintborg, D., Hermann, P., Hougaard, D. M., Højlund, K. & Andersen, M., 2016, In : Diabetes, Obesity and Metabolism. 18, 10, p. 980-989

**Follow-up duration influences the relative importance of OGTT and optimal timing of glucose measurements for predicting future type 2 diabetes**

Nielsen, M. L., Pareek, M., Leósdóttir, M., Højlund, K., Eriksson, K-F., Nilsson, P. M. & Olsen, M. H., 2016, In : European Journal of Endocrinology. 174, 5, p. 591-600

**Impaired Glucose Tolerance in Healthy Men Treated with St. John's Wort**

Stage, T. B., Damkier, P., Christensen, M. M. H., Nielsen, L. B-K., Højlund, K. & Brøsen, K., 2016, In : Basic & Clinical Pharmacology & Toxicology. 118, 3, p. 219-224

**Initiation of glucose-lowering treatment decreases international normalized ratio levels among users of vitamin K antagonists: a self-controlled register study**

Stage, T. B., Pottegård, A., Henriksen, D. P., Christensen, M. M. H., Højlund, K., Brøsen, K. & Damkier, P., 2016, In : Journal of Thrombosis and Haemostasis. 14, 1, p. 129-133

**Intact Regulation of the AMPK Signaling Network in Response to Exercise and Insulin in Skeletal Muscle of Male Patients With Type 2 Diabetes: Illumination of AMPK Activation in Recovery From Exercise**

Kjøbsted, R., Pedersen, A. J. T., Hingst, J. R., Sabaratnam, R., Birk, J. B., Kristensen, J. M., Højlund, K. & Wojtaszewski, J. F. P., 2016, In : Diabetes. 65, 5, p. 1219-1230

**Modification and Validation of the Triglyceride-to-HDL Cholesterol Ratio as a Surrogate of Insulin Sensitivity in White Juveniles and Adults without Diabetes Mellitus: The Single Point Insulin Sensitivity Estimator (SPISE)**

Paulmichl, K., Hatunic, M., Højlund, K., Jotic, A., Krebs, M., Mitrakou, A., Porcellati, F., Tura, A., Bergsten, P., Forslund, A., Manell, H., Widhalm, K., Weghuber, D., Anderwald, C-H. & Beta-JUDO Investigators, 2016, In : Clinical Chemistry. 62, 9, p. 1211-1219

**Endogenous glucose production increases in response to metformin treatment in the glycogen-depleted state in humans: a randomised trial**

Christensen, M. M. H., Højlund, K., Hother-Nielsen, O., Stage, T. B., Damkier, P., Beck-Nielsen, H. & Brøsen, K., 14. Aug 2015, In : Diabetologia. 58, 1, p. 2494-2502

**Dysregulation of muscle glycogen synthase in recovery from exercise in type 2 diabetes**

Pedersen, A. J. T., Hingst, J. R., Friedrichsen, M., Kristensen, J. M., Højlund, K. & Wojtaszewski, J. F. P., Jul 2015, In : Diabetologia. 58, 7, p. 1569-1578

**Increased metabolic risk in adolescent offspring of mothers with type 1 diabetes: the EPICOM study**

Vlachová, Z., Bytoft, B., Knorr, S., Clausen, T. D., Beck Jensen, R., Mathiesen, E. R., Højlund, K., Ovesen, P., Beck-Nielsen, H., Gravholt, C. H., Damm, P. & Jensen, D. M., Jul 2015, In : Diabetologia. 58, 7, p. 1454-1463

**Hepatic Glucose Production Increases in Response to Metformin Treatment in the Glycogen-depleted State**

Christensen, M. M. H., Højlund, K., Hother-Nielsen, O., Stage, T. B., Damkier, P., Beck-Nielsen, H. & Brøsen, K., 5. Jun 2015. 1 p.

**Steady-state pharmacokinetics of metformin is independent of the OCT1 genotype in healthy volunteers**

Christensen, M. M. H., Højlund, K., Hother-Nielsen, O., Stage, T. B., Damkier, P., Beck-Nielsen, H. & Brøsen, K., Jun 2015, In : European Journal of Clinical Pharmacology. 71, 6, p. 691-697 7 p.

**Glucose tolerance is associated with differential expression of microRNAs in skeletal muscle: results from studies of twins with and without type 2 diabetes**

Bork-Jensen, J., Scheele, C., Christophersen, D. V., Nilsson, E., Friedrichsen, M., Fernandez-Twinn, D. S., Grunnet, L. G., Litman, T., Holmstrøm, K., Vind, B., Højlund, K., Beck-Nielsen, H., Wojtaszewski, J., Ozanne, S. E., Pedersen, B. K., Poulsen, P. & Vaag, A., Feb 2015, In : Diabetologia. 58, 2, p. 363-373 11 p.

**Intake of St John's wort improves the glucose tolerance in healthy subjects who ingest metformin compared with metformin alone**

Stage, T. B., Pedersen, R. S., Damkier, P., Christensen, M. M. H., Feddersen, S., Larsen, J. T., Højlund, K. & Brøsen, K., Feb 2015, In : British Journal of Clinical Pharmacology. 79, 2, p. 298-306

**A comparison of different glucometabolic markers for prediction of future type 2 diabetes in young and middle-aged subjects: a 20-year follow-up study**

Nielsen, M. L., Pareek, M., Leosdottir, M., Højlund, K., Nilsson, P. M. & Olsen, M. H., 2015, In : Diabetologia. 58, S1, p. S183 1 p., 364.

**Differential effects of strength training and testosterone treatment on soluble CD36 in aging men: Possible relation to changes in body composition**

Glintborg, D., Christensen, L. L., Kvorning, T., Larsen, R., Højlund, K., Brixen, K., Hougaard, D. M., Handberg, A. & Andersen, M., 2015, In : Scandinavian Journal of Clinical & Laboratory Investigation. 75, 8, p. 659-66

**Glutamic acid decarboxylase autoantibody-positivity post-partum is associated with impaired  $\beta$ -cell function in women with gestational diabetes mellitus**

Lundberg, T. P., Højlund, K., Snogdal, L. S. & Jensen, D. M., 2015, In : Diabetic Medicine. 32, 2, p. 198-205

**Human muscle fiber type specific insulin signaling - Impact of obesity and type 2 diabetes**

Albers, P. H., Pedersen, A. J. T., Birk, J. B., Kristensen, D. E., Vind, B. F., Baba, O., Nøhr, J., Højlund, K. & Wojtaszewski, J. F. P., 2015, In : Diabetes. 64, 2, p. 485-497

**Markers of autophagy are adapted to hyperglycaemia in skeletal muscle in type 2 diabetes**

Sørensen, R. K., Vind, B. F., Petersson, S. J., Kristensen, J. M. & Højlund, K., 2015, In : Diabetologia. 58, 9, p. 2087-2095

**Obesity and carotid artery remodeling**

Kozakova, M., Palombo, C., Morizzo, C., Højlund, K., Hatunic, M., Balkau, B., Nilsson, P. M., Ferrannini, E. & RISC Investigators, 2015, In : Nutrition and Diabetes. 5, 8 p., e177.

**Patients with latent autoimmune diabetes: Studies on phenotypic characteristics, treatment and outcome**

Wod, M., Højlund, K., Beck-Nielsen, H. & Yderstræde, K. B., 2015, Syddansk Universitet. Det Sundhedsvidenskabelige Fakultet.

**Response to Comment on Pilz et al. Insulin Sensitivity and Albuminuria: The RISC Study. Diabetes Care 2014; 37: 1597-1603**

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**Association of fasting glucagon and proinsulin concentrations with insulin resistance**

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**Genetic characterisation of type II diabetic patients with prognostic markers**

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**Genetic characterisation of type II diabetic patients with prognostic markers**

Brusgaard, K., Snogdal, L. S., Højlund, K., Henriksen, J. E., Yderstræde, K. B. & Beck-Nielsen, H., 2007.

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**Reduced expression of nuclear-encoded genes involved in mitochondrial oxidative metabolism in skeletal muscle of obese women with polycystic ovary syndrome (PCOS)**

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**Reduced plasma adiponectin concentrations may contribute to impaired insulin activation of glycogen synthase in skeletal muscle of patients with type 2 diabetes**

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**Reduced insulin-mediated citrate synthase activity in cultured skeletal muscle cells from patients with type 2 diabetes: Evidence for an intrinsic oxidative enzyme defect**

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Kase, E. T., Wensaas, A. J., Aas, V., Højlund, K., Levin, K., Thoresen, G. H., Beck-Nielsen, H., Rustan, A. C. & Gaster, M., 2005, In : Diabetes. 54, 4, p. 1108-1115

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**A novel syndrome of autosomal-dominant hyperinsulinemic hypoglycemia linked to mutation in the human insulin receptor gene.**

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**AMPK activity and isoform protein expression are similar in muscle of obese subjects with and without type 2 diabetes.**

Højlund, K., Mustard, K. J., Staehr, P., Hardie, D. G., Beck-Nielsen, H. & Richter, E. A., 2004, In : American Journal of Physiology: Endocrinology and Metabolism. 286, p. E239-E244

**Diagnosing or determining predisposition of a disease relating to diabetes in a human, by measuring level of a protein e.g. ATP synthase  $\beta$ -subunit, phosphoglucomutase 1, in biological sample**  
Højlund, K., Fey, S. J., Larsen, P. M., Beck-Nielsen, H. & Wrzesinski, K., 2004, Patent No. Application No. Europe EP1430155, 2004

#### **Proteins In Type 2 Diabetes**

Højlund, K., Fey, S. J., Larsen, P. M., Beck-Nielsen, H. & Wrzesinski, K., 2004

#### **Does overnight normalization of plasma glucose by insulin infusion affect assessment of glucose metabolism in Type 2 diabetes?**

Stæhr, P., Højlund, K., Hother-Nielsen, O., Holst, J. J. & Beck-Nielsen, H., 1. Oct 2003, In : Diabetic Medicine. 20, 10, p. 816-22 6 p.

#### **Increased phosphorylation of skeletal muscle glycogen synthase at NH<sub>2</sub>-terminal sites during physiological hyperinsulinemia in type 2 diabetes.**

Højlund, K., Stæhr, P., Hansen, B. F., Green, K. A., Hardie, D. G., Richter, E. A., Beck-Nielsen, H. & Wojtaszewski, J. F. P., 1. Jun 2003, In : Diabetes. 52, 6, p. 1393-402 9 p.

#### **Diagnosing or determining predisposition of a disease relating to diabetes in a human, by measuring level of a protein e.g. ATP synthase (-subunit, phosphoglucomutase 1, in biological sample: Publication documents**

Højlund, K., Fey, S. J., Mose Larsen, P., Beck-Nielsen, H. & Wrzesinski, K., 2003, Patent No. Application No. WO2003020963-A2

#### **Proteins In Type 2 Diabetes**

Højlund, K., Fey, S. J., Larsen, P. M., Beck-Nielsen, H. & Wrzesinski, K., 2003

#### **Proteome analysis reveals phosphorylation of ATP synthase beta -subunit in human skeletal muscle and proteins with potential roles in type 2 diabetes**

Højlund, K., Wrzesinski, K., Larsen, P. M., Fey, S. J., Roepstorff, P., Handberg, A., Dela, F., Vinten, J., McCormack, J. G., Reynet, C. & Beck-Nielsen, H., 2003, In : Journal of Biological Chemistry. 278, 12, p. 10436-42 6 p.

#### **Nye aktører i type 2-diabetes.**

Højlund, K. & Beck-Nielsen, H., 1. Apr 2002, In : Ugeskrift for læger. 164, 14, p. 1937

#### **The diabetic phenotype is conserved in myotubes established from diabetic subjects: evidence for primary defects in glucose transport and glycogen synthase activity.**

Gaster, M., Petersen, I., Højlund, K., Poulsen, P. & Beck-Nielsen, H., 1. Apr 2002, In : Diabetes. 51, 4, p. 921-7 6 p.

#### **Development and clinical evaluation of a novel immunoassay for the binary complex of IGF-I and IGF-binding protein-1 in human serum.**

Frystyk, J., Højlund, K., Rasmussen, K. N., Jørgensen, S. P., Wildner-Christensen, M. & Ørskov, H., 1. Jan 2002, In : Journal of Clinical Endocrinology and Metabolism. 87, 1, p. 260-6 6 p.

#### **Effect of insulin on protein phosphatase 2A expression in muscle in type 2 diabetes**

Højlund, K., Poulsen, M., Bisgaard Stæhr, P., Brusgaard, K. & Beck-Nielsen, H., 2002, In : European Journal of Clinical Investigation. 32, 12, p. 918-923

#### **Reference intervals for glucose, beta-cell polypeptides and counterregulatory factors during prolonged fasting**

Højlund, K., Wildner-Christensen, M., Eshøj, O., Skjaerbaek, C., Holst, J. J., Koldkjaer, O., Møller Jensen, D. & Beck-Nielsen, H., 2001, In : American Journal of Physiology: Endocrinology and Metabolism. 280, 1, p. E50-E58

#### **Anvendelse af frisk frosset plasma til patientbehandling. Indikationer belyst gennem et litteraturstudie og en undersøgelse af praksis på et universitetshospital**

Lahrmann, C., Højlund, K., Kristensen, T. & Georgsen, J., 1996, In : Ugeskrift for Læger. 158, 24, p. 3467-70 4 p.



**Rationel transfusionsbehandling. En undersøgelse af transfusionspraksis og muligheder for at optimere denne ved elektiv koronar bypass-kirurgi**

Højlund, K., Andersen, L. I., Hüttel, M. S., Lahrmann, C., Kristensen, T. & Georgsen, J., 1996, In : Ugeskrift for Laeger. 158, 50, p. 7237-40 4 p.

## **Employment**

### **Clinical Professor**

Steno Diabetes Center Odense  
University of Southern Denmark  
1. Sep 2018 → present

### **Clinical Professor**

Endocrinology  
University of Southern Denmark  
1. Sep 2018 → present

## **Activities**

### **BONE, ENERGY METABOLISM AND DIABETES: INTEGRATED PHYSIOLOGY AND CLINICAL APPLICATIONS**

Morten Frost Munk Nielsen (Organizer), Kurt Højlund (Organizer), Michaela Tencerova (Organizer), Moustapha Kassem (Organizer)

3. Oct 2016 → 4. Oct 2016

### **Lifestyle impact on mitochondrial biogenesis.**

Kurt Højlund (Lecturer)  
3. Oct 2012

### **Effect of hyperglycaemia on whole-body glucose metabolism and muscle glycogen synthase activity during physiological hyperinsulinaemia in type 2 diabetes**

Kurt Højlund (Speaker)  
30. Sep 2009 → 2. Oct 2009

### **Phosphoproteomic and transcriptomic characterization of mitochondrial dysfunction in insulin resistant muscle**

Kurt Højlund (Lecturer)  
14. Nov 2008

### **Estimates of the bioactivity of IGF-II in serum from healthy subjects, obese subjects and obese type 2 diabetic patients**

Kurt Højlund (Speaker)  
16. Sep 2008 → 20. Sep 2008

### **Circulating levels of Insulin-like Growth Factor-II Receptor in type 1 and type 2 diabetic patients**

Kurt Højlund (Speaker)  
9. May 2008 → 11. May 2008

### **Genetic Variants and Phenotypic Characteristics of Patients with Type 2 Diabetes Mellitus (T2DM)**

Kurt Højlund (Speaker)  
9. May 2008 → 11. May 2008

### **The effect of endurance training on insulin-mediated glucose metabolism and markers of muscle glucose storage in obesity and type 2 diabetes**

Kurt Højlund (Speaker)  
9. May 2008 → 11. May 2008

**Mitochondrial dysfunction in skeletal muscle insulin resistance. Application of transcriptomics and proteomics**

Kurt Højlund (Lecturer)

10. Apr 2008

**A role for CaMKII in impaired insulin activation of glycogen synthase activity in skeletal muscle of patients with type 2 diabetes.**

Kurt Højlund (Speaker)

26. Jan 2008 → 27. Jan 2008

**Identification of multiple phosphorylation sites on ATP synthase beta subunit in human muscle. Increased phosphorylation at Thr213 and Tyr361 in obesity and type 2 diabetes**

Kurt Højlund (Speaker)

2008

**Impaired insulin-stimulated phosphorylation of Akt and AS160 in skeletal muscle of women with polycystic ovary syndrome is reversed by pioglitazone treatment**

Kurt Højlund (Lecturer)

13. May 2007

**Hypoglycemia & Insulin resistance. A novel Syndrome.**

Kurt Højlund (Lecturer)

11. May 2007

## **Prizes**

**Young Investigators Award**

Kurt Højlund (Recipient), 11. May 2007

## **Press/Media**

**10 millioner kroner til forskning inden for behandling af knogleskørhed hos patienter med osteoporose eller diabetes**

Kurt Højlund

10/05/2019

1 Media contribution

**AKTUELLE: Professorat samler diabetes-forskning**

Kurt Højlund

27/11/2014

1 item of Media coverage

**Associate Professor In Endocrinology**

Kurt Højlund

16/03/2019

1 Media contribution

**Diabetesforsker bliver adjungeret professor**

Kurt Højlund

23/01/2014

1 item of Media coverage

**Forskning i type 2 diabetes**

Kurt Højlund

19/11/2014

1 item of Media coverage

**Forskning i type 2 diabetes**

Kurt Højlund  
19/11/2014  
1 item of Media coverage

**Forskning i type 2 diabetes**

Kurt Højlund  
19/11/2014  
1 item of Media coverage

**Forskning i type 2 diabetes**

Kurt Højlund  
19/11/2014  
1 item of Media coverage

**Navnligt**

Annette Raskov Kodahl & Kurt Højlund  
20/11/2014  
1 item of Media coverage

**Ny forskningsleder på diabetescenter**

Kurt Højlund  
31/07/2018  
1 Media contribution

**Ny forskningsleder på Steno Diabetes Center Odense**

Kurt Højlund  
10/08/2018  
1 Media contribution

**Professor bliver forskningsleder på Steno Diabetes Center Odense**

Kurt Højlund  
04/08/2018  
1 Media contribution

**Teaterdirektøren byder ikke velkommen i år**

Kurt Højlund  
03/08/2018  
1 Media contribution

**Teaterdirektøren byder ikke velkommen i år**

Kurt Højlund  
04/08/2018  
1 Media contribution

**Udnævnelser og forskning**

Kurt Højlund  
08/08/2018  
1 Media contribution

**CV**

|      |                            |
|------|----------------------------|
| 2018 | Lorem ipsum dolor sit amet |
| 2017 | Lorem ipsum dolor sit amet |
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2015  
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