

Cecilia Holm Wallenberg
Molekylär endokrinolog
EXODIAB: Excellence of Diabetes Research in Sweden
Adressotyp: Besöksadress.
Sövegatan 19, BMC C11
Rm BMC C1105c
221 84
Lund
Sverige
Adressotyp: Postadress.
Box 117
22100
Lund
Sverige
E-post: cecilia.holm@med.lu.se
Mobil: +46706370485
Telefon: +46462228581



Anställning

Forskargruppschef, Professor
Molekylär endokrinologi
Lunds universitet
Lund, Sverige
1990 jan. 1 → present

Principal Investigator

EXODIAB: Excellence of Diabetes Research in Sweden
Lunds universitet
Lund, Sverige
2010 jan. 1 → present

Forskningsoutput

Analysis of vitamin D and its metabolites in biological samples – Part I: Optimization and comparison of UHPSFC-MS/MS and UHPLC-MS/MS methods

Pilařová, V., Socas-Rodríguez, B., Nováková, L., Essén, S., Holm, C., Turner, C. & Sandahl, M., 2024 apr. 15, I: Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences. 1237, 124087.

Analysis of vitamin D and its metabolites in biological samples – Part II: Optimization of a sample preparation method for liver tissue

Pilařová, V., Socas-Rodríguez, B., Nováková, L., Holm, C., Sandahl, M. & Turner, C., 2024 apr. 15, I: Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences. 1237, 124088.

Genetic deletion of hormone-sensitive lipase in mice reduces cerebral blood flow but does not aggravate the impact of diet-induced obesity on memory

Skoug, C., Rogova, O., Spégel, P., Holm, C. & Duarte, J. M. N., 2024, (E-pub ahead of print) I: Journal of Neurochemistry.

Hormone-sensitive lipase is localized at synapses and is necessary for normal memory functioning in mice

Skoug, C., Holm Wallenberg, C. & Duarte, J. M. N., 2022 maj 1, I: Journal of Lipid Research. 63, 5, 100195.

Musik - en underutnyttjad kraft för bättre hälsa

Johansson, K., Deppert, K. & Holm Wallenberg, C., 2022 feb. 18, Lund University.

Simultaneous Determination of Vitamin D and Its Hydroxylated and Esterified Metabolites by Ultrahigh-Performance Supercritical Fluid Chromatography-Tandem Mass Spectrometry

Socas-Rodríguez, B., Pilařová, V., Sandahl, M., Holm, C. & Turner, C., 2022 feb., I: Analytical Chemistry. 94, 7, s. 3065-3073 9 s.

Inner ear is a target for insulin signaling and insulin resistance: evidence from mice and auditory HEI-OC1 cells
Pålbrink, A-K., Kopietz, F., Morén, B., In 't Zandt, R., Kalinec, F., Stenkula, K., Göransson, O., Holm, C., Magnusson, M. & Degerman, E., 2020 mars 31, I: BMJ open diabetes research & care. 8, e000820.

Increased whole body energy expenditure and protection against diet-induced obesity in Cyp8b1-deficient mice is accompanied by altered adipose tissue features

Axling, U., Cavalera, M., Degerman, E., Gåfvels, M., Eggertsen, G. & Holm, C., 2020, I: Adipocyte. 9, 1, s. 587-599 13 s.

Recent advances in the analysis of vitamin D and its metabolites in food matrices

Socas-Rodríguez, B., Sandahl, M., Holm, C. & Turner, C., 2020, I: separations. 7, 2, 27 s., 36.

PNPLA3 variant M148 causes resistance to starvation-mediated lipid droplet autophagy in human hepatocytes

Negoita, F., Blomdahl, J., Wasserstrom, S., Winberg, M. E., Osmark, P., Larsson, S., Stenkula, K. G., Ekstedt, M., Kechagias, S., Holm, C. & Jones, H. A., 2019, I: Journal of Cellular Biochemistry. 120, 1, s. 343-356

AMPK activation by A-769662 and 991 does not affect catecholamine-induced lipolysis in human adipocytes

Kopietz, F., Berggreen, C., Larsson, S., Säll, J., Ekelund, M., Sakamoto, K., Degerman, E., Holm, C. & Göransson, O., 2018, I: American Journal of Physiology - Endocrinology and Metabolism. 315, 5, s. E1075-E1085

Dietary rose hip exerts antiatherosclerotic effects and increases nitric oxide-mediated dilation in ApoE-null mice

Cavalera, M., Axling, U., Rippe, C., Swärd, K. & Holm, C., 2017, I: Journal of Nutritional Biochemistry. 44, s. 52-59

Rose hip supplementation increases energy expenditure and induces browning of white adipose tissue

Cavalera, M., Axling, U., Berger, K. & Holm, C., 2016 dec. 6, I: Nutrition & Metabolism. 13, 1, 9 s.

Perilipin 1 binds to aquaporin 7 in human adipocytes and controls its mobility via protein kinase A mediated phosphorylation

Søndergaard Hansen, J., Krintel, C., Hernebring, M., Haataja, T. J. K., de Marè, S., Wasserstrom, S., Kosinska-Eriksson, U., Palmgren, M., Holm, C., Stenkula, K. G., Jones, H. A. & Lindkvist-Petersson, K., 2016 dec. 1, I: Metabolism, Clinical and Experimental. 65, 12, s. 1731-1742 12 s.

Partial disruption of lipolysis increases postexercise insulin sensitivity in skeletal muscle despite accumulation of DAG

Serup, A. K., Alsted, T. J., Jordy, A. BØ., Schjerling, P., Holm, C. & Kiens, B., 2016 okt. 1, I: Diabetes. 65, 10, s. 2932-2942 11 s.

White adipose tissue browning in the R6/2 mouse model of Huntington's disease

McCourt, A. C., Jakobsson, L., Larsson, S., Holm, C., Piel, S., Elmér, E. & Björkqvist, M., 2016 aug. 1, I: PLoS ONE. 11, 8, e0159870.

Lingonberries alter the gut microbiota and prevent low-grade inflammation in high-fat diet fed mice

Heyman Lindén, L., Kotowska, D., Sand, E., Mikael, B., Plaza, M., Turner, C., Holm, C., Fåk, F. & Berger, K., 2016 apr. 27, I: Food & Nutrition Research. 60, 29993.

A rapid method for the separation of vitamin D and its metabolites by ultra-high performance supercritical fluid chromatography-mass spectrometry.

Jumaah, F., Larsson, S., Essén, S., Cunico, L., Holm, C., Turner, C. & Sandahl, M., 2016, I: Journal of chromatography. A. 1440, s. 191-200 10 s.

Berry intake changes hepatic gene expression and DNA methylation patterns associated with high-fat diet.

Heyman, L., Seki, Y., Storm, P., Jones, H., Charron, M. J., Berger, K. & Holm, C., 2016, I: Journal of Nutritional Biochemistry. 27, s. 79-95

Parathyroid hormone induces adipocyte lipolysis via PKA-mediated phosphorylation of hormone-sensitive lipase.
Larsson, S., Jones, H., Göransson, O., Degerman, E. & Holm, C., 2016, I: Cellular Signalling. 28, 3, s. 204-213

Cereal Byproducts Have Prebiotic Potential in Mice Fed a High-Fat Diet

Berger, K., Falck, P., Linninge, C., Nilsson, U., Axling, U., Grey, C., Stålbrand, H., Nordberg Karlsson, E., Nyman, M., Holm, C. & Adlercreutz, P., 2014 aug., I: Journal of Agricultural and Food Chemistry. 62, 32, s. 8169-8178

Adiponutrin: A multimeric plasma protein.

Tinnerfelt Winberg, M., Khalaj Motlagh, M., Stenkula, K., Holm, C. & Jones, H., 2014, I: Biochemical and Biophysical Research Communications. 446, 4, s. 1114-1119

Evaluation of Beneficial Metabolic Effects of Berries in High-Fat Fed C57BL/6J Mice.

Heyman, L., Axling, U., Blanco, N., Sterner, O., Holm, C. & Berger, K., 2014, I: Journal of Nutrition and Metabolism. 2014, Jan 14, 403041.

Contraction-induced lipolysis is not impaired by inhibition of hormone-sensitive lipase in skeletal muscle

Alsted, T. J., Ploug, T., Prats, C., Serup, A. K., Hoeg, L., Schjerling, P., Holm, C., Zimmermann, R., Fledelius, C., Galbo, H. & Kiens, B., 2013, I: Journal of Physiology. 591, 20, s. 5141-5155

Diverse effects of oats on cholesterol metabolism in C57BL/6 mice correlate with expression of hepatic bile acid-producing enzymes.

Andersson, K. E., Axling, U., Xu, J., Swärd, K., Ahrné, S., Molin, G., Holm, C. & Hellstrand, P., 2013, I: European Journal of Nutrition. 52, 7, s. 1755-1769

Partial Inhibition of Adipose Tissue Lipolysis Improves Glucose Metabolism and Insulin Sensitivity Without Alteration of Fat Mass

Girousse, A., Tavernier, G., Valle, C., Moro, C., Mejhert, N., Dinel, A-L., Houssier, M., Roussel, B., Besse-Patin, A., Combes, M., Mir, L., Monbrun, L., Bezaire, V., Prunet-Marcassus, B., Waget, A., Vila, I., Caspar-Bauguil, S., Louche, K., Marques, M-A., Mairal, A., & 10 andraRenoud, M-L., Galitzky, J., Holm, C., Mousel, E., Thalamas, C., Viguerie, N., Sulpice, T., Burcelin, R., Arner, P. & Langin, D., 2013, I: PLoS Biology. 11, 2, e1001485.

Characterization of the Lipid Droplet Proteome of a Clonal Insulin-producing β-Cell Line (INS-1 832/13).

Larsson, S., Resjö, S., Gomez, M., James, P. & Holm, C., 2012, I: Journal of Proteome Research. 11, 2, s. 1264-1273

Effects of rose hip intake on risk markers of type 2 diabetes and cardiovascular disease: a randomized, double-blind, cross-over investigation in obese persons.

Axling, U., Berger, K., Höglberg, A., Landin-Olsson, M. & Holm, C., 2012, I: European Journal of Clinical Nutrition. 66, 5, s. 585-590

Green tea powder and Lactobacillus plantarum affect gut microbiota, lipid metabolism and inflammation in high-fat fed C57BL/6J mice

Axling, U., Olsson, C., Xu, J., Fernandez, C., Larsson, S., Ström, K., Ahrné, S., Holm, C., Molin, G. & Berger, K., 2012, I: Nutrition & Metabolism. 9, 105

Altered Desaturation and Elongation of Fatty Acids in Hormone-Sensitive Lipase Null Mice

Fernandez, C., Schuhmann, K., Herzog, R., Fielding, B., Frayn, K., Shevchenko, A., James, P., Holm, C. & Ström, K., 2011, I: PLoS ONE. 6, 6

Rose hip exerts antidiabetic effects via a mechanism involving downregulation of the hepatic lipogenic program

Axling, U., Henriksson, E., Ström, K., Alenfall, J., Göransson, O. & Holm, C., 2011, I: American Journal of Physiology: Endocrinology and Metabolism. 300, 1, s. E111-E121

Rye bran alkylresorcinols suppress adipocyte lipolysis and hormone-sensitive lipase activity

Axling, U., Dey, E., Holm, C. & Degerman, E., 2011, I: Molecular Nutrition and Food Research. 55, s. S290-S293

EuroDia: a beta-cell gene expression resource.

Liechti, R., Csárdi, G., Bergmann, S., Schütz, F., Sengstag, T., Boj, S. F., Servitja, J. M., Ferrer, J., Van Lommel, L., Schuit, F., Klinger, S., Thorens, B., Naamane, N., Eizirik, D. L., Marselli, L., Bugiani, M., Marchetti, P., Lucas, S., Holm, C., Jongeneel, C. V., & 1 andraXenarios, I., 2010 jan. 1, I: Database: the journal of biological databases and curation. 2010

A low glycaemic diet improves oral glucose tolerance but has no effect on β-cell function in C57BL/6J mice.

Axling, U., Rosén, L., Wierup, N., Östman, E., Björck, I. & Holm, C., 2010, I: Diabetes, Obesity and Metabolism. 12, 11, s. 976-982

Dose-dependent anti-obesity and anti-diabetic effects of synbiotics in high-fat fed C57BL/6J mice

Berger, K., Axling, U. & Holm, C., 2010, I: Diabetologia. 53, Suppl. 1, s. 948

Expression of nonalcoholic fatty liver disease associated adiponutrin variant I148M causes triglyceride accumulation

Jones, H., Fernandez, C., Larsson, S. & Holm, C., 2010, I: Diabetologia. 53, Suppl. 1, s. 765

Metabolic effects of whole grain wheat and whole grain rye in the C57BL/6J mouse.

Axling, U., Rosén, L., Östman, E., Ström, K., Wierup, N., Björck, I. & Holm, C., 2010, I: Nutrition. 26, s. 230-239

Probiotics lower plasma glucose in the high-fat fed C57BL/6J mouse.

Axling, U., Brännäng, C., Ahrné, S., Molin, G., Alenfall, J., Önning, G., Nyman, M. & Holm, C., 2010, I: Beneficial microbes. 1, 2, s. 189-196

Quaternary structure and enzymological properties of the different hormone-sensitive lipase (HSL) isoforms.

Krintel, C., Klint, C., Lindvall, H., Mörgelin, M. & Holm, C., 2010, I: PLoS ONE. 5, 6, e11193.

Rose hip exerts anti diabetic effects via a mechanism involving downregulation of the hepatic lipogenic program

Axling, U., Henriksson, E., Ström, K., Alenfall, J., Göransson, O. & Holm, C., 2010, I: Diabetologia. 53, Suppl. 1, s. 951

A beta cell-specific knockout of hormone-sensitive lipase in mice results in hyperglycaemia and disruption of exocytosis.

Fex, M., Haemmerle, G., Wierup, N., Dekker Nitert, M., Rehn, M., Ristow, M., Zechner, R., Sundler, F., Holm, C., Eliasson, L. & Mulder, H., 2009, I: Diabetologia. 52, s. 271-280

Activation of Hormone-sensitive Lipase Requires Two Steps, Protein Phosphorylation and Binding to the PAT-1 Domain of Lipid Droplet Coat Proteins

Wang, H., Hu, L., Dalen, K., Dorward, H., Marcinkiewicz, A., Russell, D., Gong, D., Londos, C., Yamaguchi, T., Holm, C., Rizzo, M. A., Brasaemle, D. & Sztalryd, C., 2009, I: Journal of Biological Chemistry. 284, 46, s. 32116-32125

Endosperm and whole grain rye breads are characterized by low post-prandial insulin response and a beneficial blood glucose profile

Rosén, L., Silva, L. O. B., Axling, U., Holm, C., Östman, E. & Björck, I., 2009, I: Nutrition Journal. 8:42

Hormone-sensitive lipase (HSL) is also a retinyl ester hydrolase: evidence from mice lacking HSL.

Ström, K., Gundersen, T. E., Hansson, O., Lucas, S., Fernandez, C., Blomhoff, R. & Holm, C., 2009, I: The FASEB journal : official publication of the Federation of American Societies for Experimental Biology. 23, 7, s. 2307-2316

Omics Analyses Reveal a Potential Link between Hormone-Sensitive Lipase and Polyamine Metabolism.

Fernandez, C., Krogh, M., Wårell, K., Alm, K., Oredsson, S., Persson, L., James, P. & Holm, C., 2009, I: Journal of Proteome Research. 8, s. 5008-5019

Perilipin is present in islets of Langerhans and protects against lipotoxicity when overexpressed in the beta-cell line INS-1.

Borg, J., Klint, C., Wierup, N., Ström, K., Larsson, S., Sundler, F., Lupi, R., Marchetti, P., Xu, G., Kimmel, A., Londos, C. & Holm, C., 2009, I: Endocrinology. 150, 7, s. 3049-3057

Phosphorylation of hormone-sensitive lipase by protein kinase A in vitro promotes an increase in its hydrophobic surface area.

Krintel, C., Mörgelin, M., Logan, D. & Holm, C., 2009, I: The FEBS Journal. 276, 17, s. 4752-4762

Attainment of brown adipocyte features in white adipocytes of hormone-sensitive lipase null mice.

Ström, K., Hansson, O., Lucas, S., Nevsten, P., Fernandez, C., Klint, C., Movérare-Skrtic, S., Sundler, F., Ohlsson, C. & Holm, C., 2008, I: PLoS ONE. 3, 3, e1793.

Disturbed cholesterol homeostasis in hormone-sensitive lipase null mice.

Fernandez, C., Lindholm, M., Krogh, M., Lucas, S., Larsson, S., Osmark, P., Berger, K., Boren, J., Fielding, B. A., Frayn, K. N. & Holm, C., 2008, I: American Journal of Physiology: Endocrinology and Metabolism. 295, July 29, s. E820-E831

Hormone-sensitive lipase is necessary for normal mobilization of lipids during sub-maximal exercise.

Fernandez, C., Hansson, O., Nevsten, P., Holm, C. & Klint, C., 2008, I: American Journal of Physiology: Endocrinology and Metabolism. 295, s. E179-E186

Lack of cholesterol mobilization in islets of hormone-sensitive lipase deficient mice impairs insulin secretion.

Larsson, S., Wierup, N., Sundler, F., Eliasson, L. & Holm, C., 2008, I: Biochemical and Biophysical Research Communications. 376, s. 558-562

Metabolomic and proteomic analysis of a clonal insulin-producing beta-cell line (INS-1 832/13).

Fernandez, C., Krus, U., Hallgard, E., Spégel, P., Holm, C., Krogh, M., Wårell, K., James, P. & Mulder, H., 2008, I: Journal of Proteome Research. 7, 1, s. 400-411

Ser649 and Ser650 are the major determinants of protein kinase A-mediated activation of human hormone-sensitive lipase against lipid substrates.

Krintel, C., Osmark, P., Larsen, M. R., Resjö, S., Logan, D. & Holm, C., 2008, I: PLoS ONE. 3, 11, e3756.

Adipose TriGlyceride Lipase (ATGL) and Hormone-Sensitive Lipase (HSL) protein expression is decreased in the obese insulin resistant state.

Jocken, J. W. E., Langin, D., Smit, E., Saris, W. H., Valle, C., Hul, G. B., Holm, C., Arner, P. & Blaak, E. E., 2007, I: Journal of Clinical Endocrinology and Metabolism. 92, 6, s. 2292-2299

Long-term exposure to glucose and lipids inhibits glucose-induced insulin secretion downstream of granule fusion with plasma membrane.

Olofsson, C., Collins, S., Bengtsson, M., Eliasson, L., Salehi, S. A., Shimomura, K., Tarasov, A., Holm, C., Ashcroft, F. & Rorsman, P., 2007, I: Diabetes. 56, 7, s. 1888-1897

Metabolic Effects of Dietary Glycaemic Index in the C57BL/6J Mouse

Axling, U., Rosén, L., Östman, E., Björck, I. & Holm, C., 2007, (Unpublished).

Metabolic properties of rye

Rosén, L., Blanco Silva, L., Axling, U., Holm, C., Östman, E. & Björck, I., 2007.

{beta}-Cell Lipases and Insulin Secretion.

Fex, M., Lucas, S., Sörhede Winzell, M., Ahrén, B., Holm, C. & Mulder, H., 2006, I: Diabetes. 55, Suppl 2, s. S24-S31

Comparison of MS/MS methods for protein identification from 2D-PAGE

Arrigoni, G., Fernandez, C., Holm, C., Scigelova, M. & James, P., 2006, I: Journal of Proteome Research. 5, 9, s. 2294-2300

Decrease in intramuscular lipid droplets and translocation of HSL in response to muscle contraction and epinephrine

Prats, C., Donsmark, M., Qvortrup, K., Londos, C., Sztalryd, C., Holm, C., Galbo, H. & Ploug, T., 2006, I: Journal of Lipid Research. 47, 11, s. 2392-2399

Glucose-stimulated insulin secretion correlates with beta-cell lipolysis.

Sörhede Winzell, M., Ström, K., Holm, C. & Ahrén, B., 2006, I: Nutrition Metabolism and Cardiovascular Diseases. 16, s. S11-S16

Inflammatory response in white adipose tissue in the non-obese hormone-sensitive lipase null mouse model.

Hansson, O., Ström, K., Güner, N., Wierup, N., Sundler, F., Höglund, P. & Holm, C., 2006, I: Journal of Proteome Research. 5, 7, s. 1701-1710

The hormone-sensitive lipase C-60G promoter polymorphism is associated with increased waist circumference in normal-weight subjects.

Nilsson, E. A., Johansson, L., Ström, K., Hoffstedt, J., Groop, L., Holm, C. & Ridderstråle, M., 2006, I: International Journal of Obesity. 30, 9, s. 1442-1448

The metabolic effects of whole grain wheat and rye in C57BL/6J mice

Axling, U., Rosén, L., Östman, E. & Holm, C., 2006.

Adipocyte lipases and defect of lipolysis in human obesity

Langin, D., Dicker, A., Tavernier, G., Hoffstedt, J., Mairal, A., Ryden, M., Arner, E., Sicard, A., Jenkins, C. M., Viguerie, N., van Harmelen, V., Gross, R. W., Holm, C. & Arner, P., 2005, I: Diabetes. 54, 11, s. 3190-3197

Continuous separation of lipid particles from erythrocytes by means of laminar flow and acoustic standing wave forces

Petersson, F., Lenshof, A., Holm, C., Bjursten, H. & Laurell, T., 2005, I: Lab on a Chip. 5, 1, s. 20-22

Design of cereal foods with advantageous effects in relation to IRS; Exploiting a combination of functional food concepts

Holm, C., Östman, E., Björck, I. & Ridderstråle, M., 2005.

Effect of murine strain on metabolic pathways of glucose production after brief or prolonged fasting

Burgess, SC., Jeffrey, FMH., Storey, C., Milde, A., Hausler, N., Merritt, ME., Mulder, H., Holm, C., Sherry, AD. & Malloy, CR., 2005, I: American Journal of Physiology: Endocrinology and Metabolism. 289, 1, s. E53-E61

Hormone-Sensitive Lipase as Mediator of Lipolysis in Contracting Skeletal Muscle.

Donsmark, M., Langfort, J., Holm, C., Ploug, T. & Galbo, H., 2005, I: Exercise and Sport Sciences Reviews. 33, 3, s. 127-133

Marked Re-Utilization of Free Fatty Acids During Activated Lipolysis in Human Skeletal Muscle.

Enoksson, S., Hagström-Toft, E., Nordahl, J., Hultenby, K., Pettersson, N., Isaksson, B., Permert, J., Wibom, R., Holm, C., Bolinder, J. & Arner, P., 2005, I: Journal of Clinical Endocrinology and Metabolism. 90, 2, s. 1189-1195

Transcriptome and proteome analysis of soleus muscle of hormone-sensitive lipase-null mice

Hansson, O., Donsmark, M., Ling, C., Nevsten, P., Danfelter, M., Andersen, J. N., Galbo, H. & Holm, C., 2005, I: Journal of Lipid Research. 46, 12, s. 2614-2623

Amino-terminal anchored surface display in insect cells and budded baculovirus using the amino-terminal end of neuraminidase.

Borg, J., Nevsten, P., Wallenberg, R., Stenström, M., Cardell, S., Falkenberg, C. & Holm, C., 2004, I: Journal of Biotechnology. 114, 1-2, s. 21-30

A novel hormone-sensitive lipase isoform expressed in pancreatic beta -cells.

Lindvall, H., Nevsten, P., Ström, K., Wallenberg, R., Sundler, F., Langin, D., Sörhede Winzell, M. & Holm, C., 2004, I: Journal of Biological Chemistry. 279, 5, s. 3828-3836

Contractions induce phosphorylation of the AMPK site Ser(565) in hormone-sensitive lipase in muscle

Donsmark, M., Langfort, J., Holm, C., Ploug, T. & Galbo, H., 2004, I: Biochemical and Biophysical Research Communications. 316, 3, s. 867-871

Effects of Growth Hormone on the Function of beta-Adrenoceptor Subtypes in Rat Adipocytes.
Yang, S., Mulder, H., Holm, C. & Edén, S., 2004, I: *Obesity Research*. 12, 2, s. 330-339

Hormone-sensitive Lipase deficiency in mouse islets abolishes neutral cholesterol ester hydrolase activity but leaves lipolysis, acylglycerides, fat oxidation, and insulin secretion intact.
Fex, M., Olofsson, C. S., Krus, U., Bacos, K., Lindvall, H., Sörhede Winzell, M., Rorsman, P., Holm, C. & Mulder, H., 2004 , I: *Endocrinology*. 145, 8, s. 3746-3753

Inhibition of lipase activity and lipolysis in rat islets reduces insulin secretion.
Mulder, H., Yang, S., Sörhede Winzell, M., Holm, C. & Ahrén, B., 2004, I: *Diabetes*. 53, 1, s. 122-128

Palmitate increases L-type Ca²⁺ currents and the size of the readily releasable granule pool in mouse pancreatic beta-cells.
Olofsson, C., Salehi, A., Holm, C. & Rorsman, P., 2004, I: *Journal of Physiology*. 557, 3, s. 935-948

Palmitate Stimulation of Glucagon Secretion in Mouse Pancreatic {alpha}-Cells Results From Activation of L-Type Calcium Channels and Elevation of Cytoplasmic Calcium.
Olofsson, C., Salehi, A., Holm, C. & Rorsman, P., 2004, I: *Diabetes*. 53, 11, s. 2836-2843

Particle separation using ultrasound can radically reduce embolic load to brain after cardiac surgery.
Bjursten, H., Holm, C., Lenshof, A., Pettersson, F., Johansson, P. & Laurell, T., 2004, I: *Annals of Thoracic Surgery*. 78, 5 , s. 1572-1578

Regulation and role of hormone-sensitive lipase in rat skeletal muscle
Donsmark, M., Langfort, J., Holm, C., Ploug, T. & Galbo, H., 2004, I: *Proceedings of the Nutrition Society*. 63, 2, s. 309-314

Separation of lipids from blood utilizing ultrasonic standing waves in microfluidic channels.
Pettersson, F., Lenshof, A., Holm, C., Bjursten, H. & Laurell, T., 2004, I: *Analyst*. 129, 10, s. 938-943

The testicular form of hormone-sensitive lipase HSLtes confers rescue of male infertility in HSL-deficient mice
Vallet-Erdmann, V., Tavernier, G., Contreras, J. A., Mairal, A., Rieu, C., Touzalin, AM., Holm, C., Jegou, B. & Langin, D., 2004, I: *Journal of Biological Chemistry*. 279, 41, s. 42875-42880

Contractions activate hormone-sensitive lipase in rat muscle by protein kinase C and mitogen-activated protein kinase
Donsmark, M., Langfort, J., Holm, C., Ploug, T. & Galbo, H., 2003, I: *Journal of Physiology*. 550, 3, s. 845-854

Downregulation of islet hormone-sensitive lipase during long-term high-fat feeding.
Sörhede Winzell, M., Holm, C. & Ahrén, B., 2003, I: *Biochemical and Biophysical Research Communications*. 304, 2, s. 273-278

Hormone-sensitive lipase in skeletal muscle: regulatory mechanisms.
Langfort, J., Donsmark, M., Ploug, T., Holm, C. & Galbo, H., 2003, I: *Acta Physiologica Scandinavica*. 178, 4, s. 397-403

Hormone-sensitive lipase is a cholesterol esterase of the intestinal mucosa
Grober, J., Lucas, S., Sörhede Winzell, M., Zaghini, I., Mairal, A., Contreras, J. A., Besnard, P., Holm, C. & Langin, D., 2003, I: *Journal of Biological Chemistry*. 278, 8, s. 6510-6515

Hormone-sensitive lipase null mice exhibit signs of impaired insulin sensitivity whereas insulin secretion is intact.
Mulder, H., Sorhede-Winzell, M., Contreras, J. A., Fex, M., Strom, K., Ploug, T., Galbo, H., Arner, P., Lundberg, C., Sundler, F., Ahrén, B. & Holm, C., 2003, I: *Journal of Biological Chemistry*. 278, 38, s. 36380-36388

Molecular mechanisms regulating hormone-sensitive lipase and lipolysis.
Holm, C., 2003, I: Biochemical Society Transactions. 31, Pt 6, s. 1120-1124

Mutational analysis of the hormone-sensitive lipase translocation reaction in adipocytes
Su, CL., Sztalryd, C., Contreras, J. A., Holm, C., Kimmel, AR. & Londos, C., 2003, I: Journal of Biological Chemistry. 278, 44, s. 43615-43619

Pancreatic beta-Cell Lipotoxicity Induced by Overexpression of Hormone-Sensitive Lipase.
Sörhede Winzell, M., Svensson, H., Enerbäck, S., Ravnskjaer, K., Mandrup, S., Esser, V., Arner, P., Alves-Guerra, M-C., Miroux, B., Sundler, F., Ahrén, B. & Holm, C., 2003, I: Diabetes. 52, 8, s. 2057-2065

Relationship of the Hormone-Sensitive Lipase-Mediated Modulation of Cholesterol Metabolism in Individual Compartments of the Testis to Serum Pituitary Hormone and Testosterone Concentrations in a Seasonal Breeder, the Mink (*Mustela vison*).
Kabbaj, O., Yoon, S. R., Holm, C., Rose, J., Vitale, M. L. & Pelletier, R. -M., 2003, I: Biology of Reproduction. 68, 3, s. 722-734

The Presence of a Catalytically Inactive Form of Hormone-Sensitive Lipase Is Associated With Decreased Lipolysis in Abdominal Subcutaneous Adipose Tissue of Obese Subjects.
Ray, H., Beylot, M., Arner, P., Larrouy, D., Langin, D., Holm, C. & Large, V., 2003, I: Diabetes. 52, 6, s. 1417-1422

A unique defect in the regulation of visceral fat cell lipolysis in the polycystic ovary syndrome as an early link to insulin resistance
Ek, I., Arner, P., Ryden, M., Holm, C., Thorne, A., Hoffstedt, J. & Wahrenberg, H., 2002, I: Diabetes. 51, 2, s. 484-492

C(2)-ceramide influences the expression and insulin-mediated regulation of cyclic nucleotide phosphodiesterase 3B and lipolysis in 3T3-L1 adipocytes.
Mei, J., Stenson, L., Landström, T., Holm, C., Brindley, D., Manganiello, V. & Degerman, E., 2002, I: Diabetes. 51, 3, s. 631-637

Characterization of a novel testicular form of human hormone-sensitive lipase
Mairal, A., Melaine, N., Laurell, H., Grober, J., Stenson, L., Guillaudeux, T., Holm, C., Jegou, B. & Langin, D., 2002, I: Biochemical and Biophysical Research Communications. 291, 2, s. 286-290

Major gentler differences in the lipolytic capacity of abdominal subcutaneous fat cells in obesity observed before and after long-term weight reduction
Lofgren, P., Hoffstedt, J., Ryden, M., Thorne, A., Holm, C., Wahrenberg, H. & Arner, P., 2002, I: Journal of Clinical Endocrinology and Metabolism. 87, 2, s. 764-771

A role for hormone-sensitive lipase in the selective mobilization of adipose tissue fatty acids
Raclot, T., Holm, C. & Langin, D., 2001, I: Biochimica et Biophysica Acta - Molecular and Cell Biology of Lipids. 1532, 1-2, s. 88-96

Expression, activity, and subcellular localization of testicular hormone-sensitive lipase during postnatal development in the guinea pig
Kabbaj, O., Holm, C., Vitale, M. L. & Pelletier, R. -M., 2001, I: Biology of Reproduction. 65, 2, s. 601-612

Fatty acid specificity of hormone-sensitive lipase: implication in the selective hydrolysis of triacylglycerols
Raclot, T., Holm, C. & Langin, D., 2001, I: Journal of Lipid Research. 42, 12, s. 2049-2057

Long-term leptin treatment of ob/ob mice improves glucose-induced insulin secretion
Khan, A., Narangoda, S., Ahrén, B., Holm, C., Sundler, F. & Efendic, S., 2001, I: International Journal of Obesity. 25, 6, s. 816-821

Overexpression of hormone-sensitive lipase in beta-cells results in blunted glucose stimulated insulin secretion after feeding mice a high-fat diet

Sörhede Winzell, M., Svensson, H., Enerback, S., Ahrén, B. & Holm, C., 2001, I: Diabetologia. 44, Suppl. 1, s. A6-A6

Testis hormone-sensitive lipase expression in spermatids is governed by a short promoter in transgenic mice

Blaise, R., Guillaudeux, T., Tavernier, G., Daegelen, D., Evrard, B., Mairal, A., Holm, C., Jegou, B. & Langin, D., 2001, I: Journal of Biological Chemistry. 276, 7, s. 5109-5115

The effect of exercise training on hormone-sensitive lipase in rat intra-abdominal adipose tissue and muscle

Enevoldsen, L. H., Stallknecht, B., Langfort, J., Petersen, L. N., Holm, C., Ploug, T. & Galbo, H., 2001, I: Journal of Physiology. 536, 3, s. 871-877

The expression of hormone-sensitive lipase in clonal beta-cells and rat islets is induced by long-term exposure to high glucose

Winzell, M. S., Svensson, H., Arner, P., Ahren, B. & Holm, C., 2001, I: Diabetes. 50, 10, s. 2225-2230

Hormone-sensitive lipase, the rate-limiting enzyme in triglyceride hydrolysis, is expressed and active in beta-cells

Mulder, H., Stensson Holst, L., Svensson, H., Degerman, E., Sundler, F., Ahrén, B., Rorsman, P. & Holm, C., 1999, I: Diabetes. 48, 1, s. 228-232

Identification of novel phosphorylation sites in hormone-sensitive lipase that are phosphorylated in response to isoproterenol and govern activation properties in vitro

Anthonsen, M. W., Rönstrand, L., Wernstedt, C., Degerman, E. & Holm, C., 1998, I: Journal of Biological Chemistry. 273, 1, s. 215-221

Protein kinase B is expressed in pancreatic beta cells and activated upon stimulation with insulin-like growth factor I

Stenson, L., Mulder, H., Manganiello, V., Sundler, F., Ahrén, B., Holm, C. & Degerman, E., 1998, I: Biochemical and Biophysical Research Communications. 250, 1, s. 181-186

[2] Regulation of hormone-sensitive lipase activity in adipose tissue

Holm, C., Langin, D., Manganiello, V., Belfrage, P. & Degerman, E., 1997, I: Methods in Enzymology. 286, s. 45-67

Partial purification and identification of hormone-sensitive lipase from chicken adipose tissue

Anthonsen, M. W., Degerman, E. & Holm, C., 1997, I: Biochemical and Biophysical Research Communications. 236, 1, s. 94-99

Domain-structure analysis of recombinant rat hormone-sensitive lipase

Österlund, T., Danielsson, B., Degerman, E., Contreras, J. A., Edgren, G., Davis, R. C., Schotz, M. C. & Holm, C., 1996, I: Biochemical Journal. 319, Pt 2, s. 411-420

Localization of hormone-sensitive lipase to rat Sertoli cells and its expression in developing and degenerating testes

Stenson, L., Hoffmann, A. M., Mulder, H., Sundler, F., Holm, C., Bergh, A. & Fredrikson, G., 1994, I: FEBS Letters. 355, 2, s. 125-130

Gene organization and primary structure of human hormone-sensitive lipase: possible significance of a sequence homology with a lipase of *Moraxella TA144*, an antarctic bacterium

Langin, D., Laurell, H., Stenson, L., Belfrage, P. & Holm, C., 1993, I: Proceedings of the National Academy of Sciences. 90, 11, s. 4897-4901

Forskningsmedel

Next-generation probiotics

Holm Wallenberg, C.

Dir Albert Pålssons stiftelse för forskning och välgörenhet: 250 000,00 kr
2022/12/07 → 2023/12/31

Projekt

AFC: ANTIDIABETIC FOOD CENTRE

Adlercreutz, P., Ahrén, I. L., Ahrné, S., Alhamimi, S., Andersson, K. E., Andersson, K. E., Månberger, A., Axling, U., Axling, U., Bergenståhl, B., Berger, K., Björck, I., Bränning, C., Bäckhed, F., Zanzer, Y. C., Danielsson, A., Danielsson, B., Degerman, E., Dejmek, P., Dey, E., Dougkas, A., Ekström, L., Eliasson, A., Fahlgren, C., Falck, P., Falck, P., Ghaffarzadegan, T., Granfeldt, Y., Grey, C., Gunnerud, U., Håkansson, Å., Håkansson, Å., Hållenius, F., Hållenius, F., Haskå, L., Haskå, L., Heimann, E., Hellstrand, P., Heyman, L., Holm Wallenberg, C., Holmén-Pålbrink, A., Holst, O., Immerstrand, T., Immerzeel, P., Jakobsdottir, G., Jeppsson, B., Johansson, E., Johansson, M., Johansson, M., Johansson, M., Johansson, U., Jones, H., Nordberg Karlsson, E., Kovatcheva-Datchary, P., Kulcinskaja, E., Landin-Olsson, M., Linninge, C., Marefati, A., Marungruang, N., Molin, G., Nilsson, A., Nilsson, E., Nilsson, U., Nyman, M., Ohlson, E., Olsson, C., Öste, R., Östman, E., Persson, L., Persson, S., Plaza, M., Prykhodko, O., Radeborg, K., Rayner, M., Rosén, L., Sandahl, M., Sandberg, J., Sjöö, M., Skog, K., Spéigel, P., Stålbrand, H., Sterner, O., Svensson, J., Tareke, E., Tovar, J., Turner, C., Weström, B., Xu, J. & Zhong, Y.

2007/07/01 → 2018/01/31

Bile acids as regulators of energy expenditure

Holm Wallenberg, C. & Axling, U.

Bioinspired Energy Conversion - Theme, Pufendorf Institute

Andersson, Ö., Börjesson, P., Isaksson, H., Johansson, J., Linke, H., Revstedt, J., Hedenström, A., Johansson, C., Nilsson, J., Troein, C., Göransson, O., Holm Wallenberg, C., Mulder, H., Siversson, C. & Parrondo, J.

2012/08/12 → 2013/08/13

Food components for prevention and treatment of obesity and type 2 diabetes - Physiological effects and molecular mechanisms

Berger, K., Axling, U., Hållenius, F., Turner, C., Spéigel, P., Alhamimi, S., Adlercreutz, P., Heyman, L. & Holm Wallenberg, C.

2010/01/01 → 2017/12/31

LU Futura

Åkesson, L., Cronqvist, M., Oredsson, U., Julén Votinius, J., Rummukainen, M., Johansson, K., Stanfors, M., Stripple, J., Holm Wallenberg, C., Deppert, K., Granfelt, J., Hansen, M., Lunga, I. & Karlsson, L.

2018/01/01 → 2020/12/12

Next-generation probiotics

Holm Wallenberg, C.

Dir Albert Pålssons stiftelse för forskning och välgörenhet
2021/01/01 → 2022/12/31

Salt-inducible kinases in adipose tissue

Säll Sernevi, J., Göransson, O. & Holm Wallenberg, C.

Kungliga Fysiografiska Sällskapet i Lund

2012/09/15 → 2017/09/05