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## Anställning

### Professor

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

### Principal Investigator

EXODIAB: Excellence of Diabetes Research in Sweden  
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## Forskningsoutput

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

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

### **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**

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

Axling, U., Cavallera, 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**

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

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**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**

Söndergaard 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**

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

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

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**Parathyroid hormone induces adipocyte lipolysis via PKA-mediated phosphorylation of hormone-sensitive lipase.**

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

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**Adiponutrin: A multimeric plasma protein.**

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**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 andra, Renoud, M-L., Galitzky, J., Holm, C., Mouisel, E., Thalamas, C., Viguier, N., Sulpice, T., Burcelin, R., Arner, P. & Langin, D., 2013, I: *PLoS Biology*. 11, 2, e1001485.

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

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

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**EuroDia: a beta-cell gene expression resource.**

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

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

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**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

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## Forskningsmedel

### Bile acids as regulators of energy expenditure

Holm Wallenberg, C.

Dir Albert Pålssons stiftelse för forskning och välgörenhet: 300 000,00 kr

2021/01/01 → 2021/12/31

## 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., Bergenstahl, B., Berger, K., Björck, I., Bränning, C., Bäckhed, F., Zanger, 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., Gummerud, 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., Marunguang, 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., Spégel, 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., Spéjel, 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.

2021/01/01 → 2022/12/31

**Salt-inducible kinases in adipose tissue**

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

2012/09/15 → 2017/09/05