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Education

1997 Ph.D. degree in molecular and cellular biology (Odense University)
2002 "Organization and Leadership", University of Southern Denmark
2003 "Project Strategies and Leadership", University of Southern Denmark
2003 Pedagogical training course (adjunktprædagoikum), University of Southern Denmark
2006-2007 Research leadership-education held by Copenhagen Business School

Professional experience

1997-1998 Research scientist in the Department of Vessel Wall Biology, Novo-Nordisk A/S
1998-2000 Postdoctoral fellow in the laboratory of Concetta DiRusso, Albany Medical College, Department of Biochemistry and Molecular Biology, Albany, NY (USA)
2000-2003 Research assistant professor at Dept. of Biochemistry and Molecular Biology, University of Southern Denmark
2003-2012 Associate professor at Dept. of Biochemistry and Molecular Biology, University of Southern Denmark
2012-present Professor at Dept. of Biochemistry and Molecular Biology, University of Southern Denmark

Boards

2003-2011 Co-founder and executive board Member of the governing board of the graduate school "The Danish Graduate School of Functional Genomics and Proteomics as Applied to Metabolic Diseases"
2005-2010 Member of the committee of the Danish Society for Biochemistry and Molecular Biology
2007-2010 Member of the governing board at Dept. of Biochemistry and Molecular Biology, SDU
2007-2011 Chairman of the teaching committee at Dept. of Biochemistry and Molecular Biology, SDU
2011-2014 Member of the teaching committee at Dept. of Biochemistry and Molecular Biology, SDU
2009-present Member of the Board of the Danish Society for Biotechnology
2012 Founder of The Danish Lipid Research Society
2015-present Chair of the Fuhrmann Foundation
2017-present Member of Academic Council, University of Southern Denmark
2018-present Chair of the educational committee of the Danish Diabetes Academy
2018-present Member of the Steno Diabetes Center-Odense (SDCO) Research Council
2019-present Elected Board Member of the Nordic Metabolomics Society

Research experience

Have been principal investigator and have had own research laboratory since 2003, independent funding from The Danish Research Councils since 2003 and obtained funding from Novo Nordisk Foundation, Carlsberg Foundation, Danish Diabetes Association and the Lundbeck Foundation. Have been involved in several large research consortia funded by The Danish Council for Strategic Research, NordForsk and NIH.

Editorial and Advisory Boards

2008-present Associate Editor for Lipids
2010-present Member of the Honorary Editorial Board of Lipid Insights
2010-present Editorial Board member "Frontiers in Fatty Acid and Lipid Physiology"
2017-present Editorial Board member of "Metabolites"

Reviewer/evaluator appointments

Reviewer for Nature, Science, PLoS journals, Molecular and Cellular Life Sciences, Biochimica et Biophysica Acta-Molecular and Cell Biology of Lipids, Journal of Molecular Medicine, Molecular Biosystems, Future lipidology, Proteomics, Lipids, Research signpost series, International reviewer for several international research Councils.

Teaching and supervision of students

Extensive teaching experience in biochemistry and protein purification; since 2004 and 2007, respectively, responsible for two courses offered by the University of Southern Denmark: BMB202 Protein purification and BMB505/BMB521, metabolic and hormonal regulation. Principal supervisor since 2003, supervisor of: 4 post docs, 14 PhD-, 19 Msc., 38 Bsc. students.

Honored best teacher at the Science Faculty, University of Southern Denmark in 2009.

Ansættelse

Institut for Biokemi og Molekylær Biologi

SDU

Odense M

1. jul. 2023 → present

Professor

Translational Biologi

SDU

1. jul. 2023 → present

Professor

Biomedicinsk Massespektrometri og systembiologi

SDU

1. jul. 2023 → present

Publikationer

Pulmonary maternal immune activation does not cross the placenta but leads to fetal metabolic adaptation

Hansen, S. S. K., Krautz, R., Rago, D., Havelund, J., Stigliani, A., Færgeman, N. J., Prézélin, A., Rivière, J., Couturier-Tarrade, A., Akimov, V., Blagoev, B., Elfving, B., Neess, D., Vogel, U., Khodosevich, K., Hougaard, K. S. & Sandelin, A., dec. 2024, I: Nature Communications. 15, 24 s., 4711.

Assessment of the Inflammatory Effects of Gut Microbiota from Human Twins Discordant for Ulcerative Colitis on Germ-free Mice

Knudsen, L. A., Line Sf, Z., Strube, M. L., Havelund, J. F., Pilecki, B., Nexoe, A. B., Moller, F. T., Sørensen, S. B., Marcussen, N., Færgeman, N. J., Franke, A., Bang, C., Holmskov, U., Hansen, A. K. & Andersen, V., apr. 2024, I: Comparative Medicine. 74, 2, s. 55-69

Regulating PCCA gene expression by modulation of pseudoexon splicing patterns to rescue enzyme activity in propionic acidemia

Spangsborg Petersen, U. S., Dembic, M., Martínez-Pizarro, A., Richard, E., Holm, L. L., Havelund, J. F., Doktor, T. K., Larsen, M. R., Færgeman, N. J., Desviat, L. R. & Andresen, B. S., 12. mar. 2024, I: Molecular Therapy Nucleic Acids. 35, 1, 46 s., 102101.

Propionate reinforces epithelial identity and reduces aggressiveness of lung carcinoma

Ramesh, V., Gollavilli, P. N., Pinna, L., Siddiqui, M. A., Turtos, A. M., Napoli, F., Antonelli, Y., Leal-Egaña, A., Havelund, J. F., Jakobsen, S. T., Boiteux, E. L., Volante, M., Faergeman, N. J., Jensen, O. N., Siersbæk, R., Somyajit, K. & Ceppi, P., 7. dec. 2023, I: EMBO Molecular Medicine. 15, 12, e17836.

Autophagy-mediated control of ribosome homeostasis in oncogene-induced senescence

López, A. R., Jørgensen, M. H., Havelund, J. F., Arendrup, F. S., Kolapalli, S. P., Nielsen, T. M., Pais, E., Beese, C. J., Abdul-Al, A., Vind, A. C., Bartek, J., Bekker-Jensen, S., Montes, M., Galanos, P., Faergeman, N., Happonen, L. & Frankel, L. B., 28. nov. 2023, I: Cell Reports. 42, 11, 24 s., 113381.

Acute deletion of the glucocorticoid receptor in hepatocytes disrupts postprandial lipid metabolism in male mice

Correia, C. M., Præstholm, S. M., Havelund, J. F., Pedersen, F. B., Siersbæk, M. S., Ebbesen, M. F., Gerhart-Hines, Z., Heeren, J., Brewer, J., Larsen, S., Blagoev, B., Færgeman, N. J. & Grøntved, L., okt. 2023, I: Endocrinology. 164, 10, 17 s., bqad128.

Distinct maternal metabolites are associated with obesity and glucose-insulin axis in the first trimester of pregnancy

Bandres-Meriz, J., Kunz, C., Havelund, J. F., Færgeman, N. J., Majali-Martinez, A., Ensenauer, R. & Desoye, G., jul. 2023, I: International Journal of Obesity. 47, s. 529-537

NAMPT-dependent NAD⁺ biosynthesis controls circadian metabolism in a tissue-specific manner

Basse, A. L., Nielsen, K. N., Karavaeva, I., Ingerslev, L. R., Ma, T., Havelund, J. F., Nielsen, T. S., Frost, M., Peics, J., Dalbram, E., Dall, M., Zierath, J. R., Barrès, R., Færgeman, N. J., Treebak, J. T. & Gerhart-Hines, Z., 30. mar. 2023, I: PNAS. 120, 14, 12 s., e2220102120.

High-fat diet-induced obesity augments the deleterious effects of estrogen deficiency on bone: Evidence from ovariectomized mice

Ali, D., Figeac, F., Caci, A., Ditzel, N., Schmal, C., Kerckhofs, G., Havelund, J., Færgeman, N., Rauch, A., Tencerova, M. & Kassem, M., dec. 2022, I: Aging Cell. 21, 12, 17 s., e13726.

GIP Affects Hepatic Fat and Brown Adipose Tissue Thermogenesis but Not White Adipose Tissue Transcriptome in Type 1 Diabetes

Heimbürger, S. M. N., Hoe, B., Nielsen, C. N., Bergman, N. C., Skov-Jeppesen, K., Hartmann, B., Holst, J. J., Dela, F., Overgaard, J., Størling, J., Vilsbøll, T., Dejgaard, T. F., Havelund, J. F., Gorshkov, V., Kjeldsen, F., Færgeman, N. J. K., Madsen, M. R., Christensen, M. B. & Knop, F. K., 25. nov. 2022, I: The Journal of Clinical Endocrinology & Metabolism. 107, 12, s. 3261-3274

An LDLR missense variant poses high risk of familial hypercholesterolemia in 30% of Greenlanders and offers potential of early cardiovascular disease intervention

Jørsboe, E., Andersen, M. K., Skotte, L., Stæger, F. F., Færgeman, N. J., Hanghøj, K., Santander, C. G., Senftleber, N. K., Diaz, L. J., Overvad, M., Waples, R. K., Geller, F., Bjerregaard, P., Melbye, M., Larsen, C. V. L., Feenstra, B., Anders Koch, K., Jørgensen, M. E., Grarup, N., Moltke, I., & 2 flereAlbrechtsen, A. & Hansen, T., 13. okt. 2022, I: Human Genetics and Genomics Advances. 3, 4, 100118.

Loss of Sucrase-Isomaltase Function Increases Acetate Levels and Improves Metabolic Health in Greenlandic Cohorts

Andersen, M. K., Skotte, L., Jørsboe, E., Polito, R., Stæger, F. F., Aldiss, P., Hanghøj, K., Waples, R. K., Santander, C. G., Grarup, N., Dahl-Petersen, I. K., Diaz, L. J., Overvad, M., Senftleber, N. K., Søborg, B., Larsen, C. V. L., Lemoine, C., Pedersen, O., Feenstra, B., Bjerregaard, P., & 9 flereMelbye, M., Jørgensen, M. E., Færgeman, N. J., Koch, A., Moritz, T., Gillum, M. P., Moltke, I., Hansen, T. & Albrechtsen, A., apr. 2022, I: Gastroenterology. 162, 4, s. 1171-1182.e3

A macrophage-hepatocyte glucocorticoid receptor axis coordinates fasting ketogenesis

Loft, A., Schmidt, S. F., Caratti, G., Stifel, U., Havelund, J., Sekar, R., Kwon, Y., Sulaj, A., Chow, K. K., Alfaro, A. J., Schwarzmayr, T., Rittig, N., Svart, M., Tsokanos, F-F., Maida, A., Blutke, A., Feuchtinger, A., Møller, N., Blüher, M., Nawroth, P., & 5 flereSzendrői, J., Færgeman, N. J., Zeigerer, A., Tuckermann, J. & Herzig, S., 1. mar. 2022, I: Cell Metabolism. 34, 3, s. 473-486.e9

High Fat Diet (HFD)-Induced Obesity Augments the Deleterious Effects of Estrogen Deficiency on Bone: Evidence from ovariectomized Mice

Ali, D., Figeac, F., Caci, A., Ditzel, N., Schmal, C., Kerckhofs, G., Havelund, J., Færgeman, N., Rauch, A., Tencerova, M. & Kassem, M., 2022, I: Bone Reports. 16, Supp., 1 s., 101275.

Characterising Alzheimer's disease through integrative NMR- and LC-MS-based metabolomics

Nielsen, J. E., Maltesen, R. G., Havelund, J. F., Færgeman, N. J., Gotfredsen, C. H., Vestergård, K., Kristensen, S. R. & Pedersen, S., dec. 2021, I: Metabolism open. 12, 9 s., 100125.

Impaired glucocorticoid receptor expression in liver disrupts feeding-induced gene expression, glucose uptake, and glycogen storage

Præstholt, S. M., Correia, C. M., Goitea, V. E., Siersbæk, M. S., Jørgensen, M., Havelund, J. F., Pedersen, T. Å., Færgeman, N. J. & Grøntved, L., 2. nov. 2021, I: Cell Reports. 37, 5, 109938.

From benzodiazepines to fatty acids and beyond: revisiting the role of ACBP/DBI

Alquier, T., Christian-Hinman, C. A., Alfonso, J. & Færgeman, N. J., nov. 2021, I: Trends in Endocrinology and Metabolism. 32, 11, s. 890-903

Identification of bioactive metabolites in human iPSC-derived dopaminergic neurons with PARK2 mutation: Altered mitochondrial and energy metabolism

Okarmus, J., Havelund, J. F., Ryding, M., Schmidt, S. I., Bogetofte, H., Heon-Roberts, R., Wade-Martins, R., Cowley, S. A., Ryan, B. J., Færgeman, N. J., Hyttel, P. & Meyer, M., 8. jun. 2021, I: Stem Cell Reports. 16, 6, s. 1510-1526

HLH-30-dependent rewiring of metabolism during starvation in *C. elegans*

Dall, K. B., Havelund, J. F., Harvald, E. B., Witting, M. & Faergeman, N. J., apr. 2021, I: Aging Cell. 20, 4, 13 s., e13342.

Lipid molecular timeline profiling reveals diurnal crosstalk between the liver and circulation

Sprenger, R. R., Hermansson, M., Neess, D., Becciolini, L. S., Sørensen, S. B., Fagerberg, R., Ecker, J., Liebisch, G., Jensen, O. N., Vance, D. E., Færgeman, N. J., Klemm, R. W. & Ejsing, C. S., 2. feb. 2021, I: Cell Reports. 34, 5, 23 s., 108710.

Epidermal Acyl-CoA-binding protein is indispensable for systemic energy homeostasis

Neess, D., Kruse, V., Marcher, A. B., Wæde, M. R., Vistisen, J., Møller, P. M., Petersen, R., Brewer, J. R., Ma, T., Colletuori, G., Severi, I., Cinti, S., Gerhart-Hines, Z., Mandrup, S. & Færgeman, N. J., feb. 2021, I: Molecular Metabolism. 44, 11 s., 101144.

Patched regulates lipid homeostasis by controlling cellular cholesterol levels

Cadena del Castillo, C. E., Hannich, J. T., Kaech, A., Chiyoda, H., Brewer, J., Fukuyama, M., Færgeman, N. J., Riezman, H. & Spang, A., 2021, I: Nature Communications. 12, 1, 13 s., 4898.

Type III-A CRISPR-associated protein Csm6 degrades cyclic hexa-adenylate activator using both CARF and HEPN domains

Smalakyte, D., Kazlauskienė, M., F Havelund, J., Rukšėnaitė, A., Rimaite, A., Tamulaitiene, G., Færgeman, N. J., Tamulaitis, G. & Siksnys, V., 18. sep. 2020, I: Nucleic Acids Research. 48, 16, s. 9204-9217

Biomarkers for Development of Glucocorticoid-Induced Diabetes Mellitus: A Metabolomics-Based Prediction Model

Klarskov, C. K., Havelund, J., Zegers, F. D., Færgeman, N. J., Schultz, H. H. L., Debrabant, B., Pedersen-Bjerggaard, U. & Lund Christensen, P., aug. 2020, I: Journal of Molecular and Genetic Medicine. 14, 4, 7 s.

Free Fatty Acids Interfere with the DNA Binding Activity of the Virulence Regulator PrfA of *Listeria monocytogenes*

Santos, P. I. T. D., Thomasen, R. S., Green, M. S., Færgeman, N. J. & Kallipolitis, B. H., aug. 2020, I: Journal of Bacteriology. 202, 15, 13 s., e00156-20.

Yeast Sphingolipid Phospholipase Gene ISC1 Regulates the Spindle Checkpoint by a CDC55-Dependent Mechanism

Matmati, N., Hassan, B. H., Ren, J., Shamssedine, A. A., Jeong, E., Shariff, B., Snider, J., Rødkær, S. V., Chen, G., Mohanty, B. K., Zheng, W. J., Obeid, L. M., Røssel-Larsen, M., Færgeman, N. J. & Hannun, Y. A., maj 2020, I: Molecular and Cellular Biology. 40, 12, e00340-19.

Expression of acyl-CoA-binding protein 5 from *Rhodnius prolixus* and its inhibition by RNA interference

Almeida, M. G. M. D., Arêdes, D. S., Majerowicz, D., Færgeman, N. J., Knudsen, J. & Gondim, K. C., 1. jan. 2020, I: PLOS ONE. 15, 1, 21 s., e0227685.

Ethyl pyruvate increases post-ischemic levels of mitochondrial energy metabolites: A ¹³C-labeled cerebral microdialysis study

Nygaard, K. H., Havelund, J. F., Nielsen, T. H., Nordstrøm, C. H., Færgeman, N. J., Poulsen, F. R., Gramsbergen, J. B. & Forse, A., 2020, I: Metabolites. 10, 7, 12 s., 287.

Metabolic programming determines the lineage-differentiation fate of murine bone marrow stromal progenitor cells

Tencerova, M., Rendina-Ruedy, E., Neess, D., Færgeman, N., Figeac, F., Ali, D., Danielsen, M., Haakonsson, A., Rosen, C. J. & Kassem, M., 1. dec. 2019, I: Bone Research. 7, 14 s., 35.

Autophagy-Mediated Cholesterol Trafficking Controls Steroid Production

Texada, M. J., Malita, A., Christensen, C. F., Dall, K. B., Faergeman, N. J., Nagy, S., Halberg, K. A. & Rewitz, K., 11. mar. 2019, I: Developmental Cell. 48, 5, s. 659-671.e4

Axon-Dependent Patterning and Maintenance of Somatosensory Dendritic Arbors

Ramirez-Suarez, N. J., Belalcazar, H. M., Salazar, C. J., Beyaz, B., Raja, B., Nguyen, K. C. Q., Celestrin, K., Fredens, J., Færgeman, N. J., Hall, D. H. & Bülow, H. E., 28. jan. 2019, I: *Developmental Cell*. 48, 2, s. 229-244.e4

Ethyl Pyruvate Treatment Increases Post-ischemic Levels of Selected Metabolites Detected by Labelled Cerebral Microdialysis

Nygaard, K. H., Havelund, J., Nielsen, T. H., Færgeman, N. J., Nordström, C-H., Rom Poulsen, F., Gramsbergen, J. B. & Forse, A., 2019, I: *Stroke*. 50, Suppl. 1, s. TP318

In Vivo Microdialysis of Endogenous and ¹³C-labeled TCA Metabolites in Rat Brain: Reversible and Persistent Effects of Mitochondrial Inhibition and Transient Cerebral Ischemia

Havelund, J. F., Nygaard, K. H., Nielsen, T. H., Nordström, C-H., Poulsen, F. R., Færgeman, N. J., Forse, A. & Gramsbergen, J. B., 2019, I: *Metabolites*. 9, 10, 13 s., 204.

LC-MS Analyses of Lipid Species in Skeletal Muscle Cells and Tissue

Moreno-Torres, M., Havelund, J. F. & Faergeman, N. J., 2019, *Myogenesis: Methods and protocols*. Rønning, S. B. (red.). New York: Humana Press, s. 213-228 (Methods in Molecular Biology; Nr. 1889).

Metabolic regulation of lifespan from a *C. Elegans* perspective

Dall, K. B. & Færgeman, N. J., 2019, I: *Genes & Nutrition*. 14, s. 14-25 12 s., 25.

A low-gluten diet induces changes in the intestinal microbiome of healthy Danish adults

Hansen, L. B. S., Roager, H. M., Søndertoft, N. B., Gøbel, R. J., Kristensen, M., Vallès-Colomer, M., Vieira-Silva, S., Ibrügger, S., Lind, M. V., Mærkedahl, R. B., Bahl, M. I., Madsen, M. L., Havelund, J., Falony, G., Tetens, I., Nielsen, T., Allin, K. H., Frandsen, H. L., Hartmann, B., Holst, J. J., & 32 flereSparholt, M. H., Holck, J., Blennow, A., Moll, J. M., Meyer, A. S., Hoppe, C., Poulsen, J. H., Carvalho, V., Sagnelli, D., Dalgaard, M. D., Christensen, A. F., Lydolph, M. C., Ross, A. B., Villas-Bôas, S., Brix, S., Sicheritz-Pontén, T., Buschard, K., Linneberg, A., Rumessen, J. J., Ekstrøm, C. T., Ritz, C., Kristiansen, K., Nielsen, H. B., Vestergaard, H., Færgeman, N. J., Raes, J., Frøkiær, H., Hansen, T., Lauritzen, L., Gupta, R., Licht, T. R. & Pedersen, O., 13. nov. 2018, I: *Nature Communications*. 9, 13 s., 4630.

Exercise-induced molecular mechanisms promoting glycogen supercompensation in human skeletal muscle

Hingst, J. R., Bruhn, L., Hansen, M. B., Rosschou, M. F., Birk, J. B., Fentz, J., Foretz, M., Viollet, B., Sakamoto, K., Færgeman, N. J., Havelund, J. F., Parker, B. L., James, D. E., Kiens, B., Richter, E. A., Jensen, J. & Wojtaszewski, J. F. P., okt. 2018, I: *Molecular Metabolism*. 16, s. 24-34

Cardiolipin Synthesis in Brown and Beige Fat Mitochondria Is Essential for Systemic Energy Homeostasis

Sustarsic, E. G., Ma, T., Lynes, M. D., Larsen, M., Karavaeva, I., Havelund, J. F., Nielsen, C. H., Jedrychowski, M. P., Moreno-Torres, M., Lundh, M., Plucinska, K., Jespersen, N. Z., Grevengoed, T. J., Kramar, B., Peics, J., Hansen, J. B., Shamsi, F., Forss, I., Neess, D., Keipert, S., & 24 flereWang, J., Stohlmann, K., Brandslund, I., Christensen, C., Jørgensen, M. E., Linneberg, A., Pedersen, O., Kiebish, M. A., Qvortrup, K., Han, X., Pedersen, B. K., Jastroch, M., Mandrup, S., Kjær, A., Gygi, S. P., Hansen, T., Gillum, M. P., Grarup, N., Emanuelli, B., Nielsen, S., Scheele, C., Tseng, Y. H., Færgeman, N. J. & Gerhart-Hines, Z., 3. jul. 2018, I: *Cell Metabolism*. 28, 1, s. 159-174.e11

Impact of red and processed meat and fibre intake on treatment outcomes among patients with chronic inflammatory diseases: protocol for a prospective cohort study of prognostic factors and personalised medicine

Christensen, R., Heitmann, B. L., Andersen, K. W., Nielsen, O. H., Sørensen, S. B., Jawhara, M., Bygum, A., Hvid, L., Grauslund, J., Wied, J., Glerup, H., Fredberg, U., Villadsen, J. A., Kjær, S. G., Fallingborg, J., Moghadd, S. A. G. R., Knudsen, T., Brodersen, J., Frøjk, J., Dahlerup, J. F., & 21 flereBojesen, A. B., Sorensen, G. L., Thiel, S., Færgeman, N. J., Brandslund, I., Bennike, T. B., Stensballe, A., Schmidt, E. B., Franke, A., Ellinghaus, D., Rosenstiel, P., Raes, J., Boye, M., Werner, L., Nielsen, C. L., Munk, H. L., Nexøe, A. B., Ellingsen, T., Holmskov, U., Kjeldsen, J. & Andersen, V., feb. 2018, I: *BMJ Open*. 8, 2, 17 s., e018166.

Changes in kynurenine pathway metabolism in Parkinson patients with L-DOPA-induced dyskinesia

Havelund, J. F., Dammann Andersen, A., Binzer, M., Blaabjerg, M., Heegaard, N. H. H., Stenager, E., Faergeman, N. J. & Gramsbergen, J. B., sep. 2017, I: *Journal of Neurochemistry*. 142, 5, s. 756-766

CSF catecholamine and kynurenine metabolites in Parkinson's disease and L-DOPA-induced dyskinesia

Dammann Andersen, A., Havelund, J. F., Binzer, M., Blaabjerg, M., Kamal, A., Thagesen, H., Kjær, T. W., Færgeman, N. J., Heegaard, N. H. H., Stenager, E. & Gramsbergen, J. B., 20. aug. 2017, I: *Journal of Neurochemistry*. 142, Suppl. 1, s. 107 1 s., MTU04-04.

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., 16. maj 2017, I: *Journal of Clinical Lipidology*. 11, 2, s. 515-523.e6

A Proposal for a Study on Treatment Selection and Lifestyle Recommendations in Chronic Inflammatory Diseases: A Danish Multidisciplinary Collaboration on Prognostic Factors and Personalised Medicine

Andersen, V., Holmskov, U., Sørensen, S. B., Jawhara, M., Andersen, K. W., Bygum, A., Sylvester Hvid, L., Grauslund, J., Wied, J., Glerup, H., Fredberg, U., Villadsen, J. A., Kjær, S. G., Fallingborg, J., Moghadd, S. A. G. R., Knudsen, T., Brodersen, J., Frøjk, J., Dahlerup, J. F., Nielsen, O. H., & 18 flereChristensen, R., Bojesen, A. B., Sorensen, G. L., Thiel, S., Færgeman, N. J., Brandslund, I., Stensballe, A., Schmidt, E. B., Franke, A., Ellinghaus, D., Rosenstiel, P., Raes, J., Heitmann, B., Boye, M., Lindgaard Nielsen, C., Werner, L., Kjeldsen, J. & Ellingsen, T., 15. maj 2017, I: *Nutrients*. 9, 5, 16 s., 499.

TORC1 Inhibits GSK3-Mediated Elo2 Phosphorylation to Regulate Very Long Chain Fatty Acid Synthesis and Autophagy

Zimmermann, C., Santos, A., Gable, K., Epstein, S., Gururaj, C., Chymkowitch, P., Pultz, D., Rødkær, S. V., Clay, L., Bjørås, M., Barral, Y., Chang, A., Færgeman, N. J., Dunn, T. M., Riezman, H. & Enserink, J. M., 21. feb. 2017, I: *Cell Reports*. 18, 8, s. 2073-2074 2 s.

Quantitative lipidomics reveals age-dependent perturbations of whole-body lipid metabolism in ACBP deficient mice

Gallego, S. F., Sprenger, R. R., Neess, D., Pauling, J. K., Færgeman, N. J. & Ejsing, C. S., feb. 2017, I: *BBA Molecular and Cell Biology of Lipids*. 1862, 2, s. 145-155

Antimicrobial medium- and long-chain free fatty acids prevent PrfA-dependent activation of virulence genes in *Listeria monocytogenes*.

Sternkopf Lillebæk, E. M., Lambert Nielsen, S., Scheel Thomasen, R., Færgeman, N. J. & Kallipolitis, B. H., 2017, I: *Research in Microbiology*. 168, 6, s. 547-557 11 s.

Biomarker Research in Parkinson's Disease Using Metabolite Profiling

Havelund, J. F., Heegaard, N. H. H., Færgeman, N. J. K. & Gramsbergen, J. B., 2017, I: *Metabolites*. 7, 3, 18 s., 42.

Carnitine acetyltransferase: A new player in skeletal muscle insulin resistance?

Berg, S. M., Beck-Nielsen, H., Færgeman, N. J. & Gaster, M., 2017, I: *Biochemistry and Biophysics Reports*. 9, s. 47-50

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Just, M., Faergeman, N. J., Knudsen, J., Beck-Nielsen, H. & Gaster, M., 2006, I: BBA General Subjects. 1762, 7, s. 666-672

MAA-1, a novel acyl-CoA-binding protein involved in endosomal vesicle transport in Caenorhabditis elegans

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Post translational modification analysis of yeast histones by mass spectrometry

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Evolution of the acyl-CoA binding protein (ACBP)

Burton, M., Rose, T. M., Faergeman, N. J. & Knudsen, J., 1. dec. 2005, I: Biochemical Journal. 392, Pt 2, s. 299-307 8 s.

Alpha-synuclein gene deletion decreases brain palmitate uptake and alters the palmitate metabolism in the absence of alpha-synuclein palmitate binding

Golovko, M. Y., Færgeman, N. J., Cole, N. B., Castagnet, P. I., Nussbaum, R. L. & Murphy, E. J., 14. jun. 2005, I: Biochemistry. 44, 23, s. 8251-8259

Acyl-CoA metabolism in saccharomyces cerevisiae role of acyl-CoA binding protein

Feddersen, S., Knudsen, J. & Færgeman, N. J., 2005, *Cell biology and dynamics of yeast lipids*. Daum, G. (red.). Kerala, India: Research Publishers, s. 21-50

a-synuclein gene-deletion decreases brain palmitate uptake and altered palmitate metabolism in the absence of a-synuclein palmitate binding

Golovko, M. Y., Færgeman, N. J., Cole, N. B., Castagnet, P. I., Nussbaum, R. L. & Murphy, E. J., 2005, I: Biochemistry. 44, s. 8251-8259

Quantitative phosphoproteomics applied to the yeast pheromone signaling pathway

Gruhler, A., Olsen, J. V., Mohammed, S., Mortensen, P., Færgeman, N. J., Mann, M. & Jensen, O. N., 2005, I: Molecular and Cellular Proteomics. 4, 3, s. 310-27 18 s.

Regulation of lipolytic activity by long-chain acyl-coenzyme A in islets and adipocytes

Hu, L., Deeney, J. T., Nolan, C. J., Peyot, M-L., Ao, A., Richard, A. M., Luc, E., Færgeman, N. J., Knudsen, J., Guo, W., Sorhede-Winzell, M., Prentki, M. & Corkey, B. E., 2005, I: American Journal of Physiology: Endocrinology and Metabolism. 289, 6, s. E1085-92

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Acyl-CoA and Acyl-CoA Binding Protein in cell signaling

Knudsen, J., Burton, M. & Færgeman, N. J., 2003, I: Advances in Molecular and Cell Biology. 33, s. 123-53

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Cohen Simonsen, A., Bernchou Jensen, U., Færgeman, N. J., Knudsen, J. & Mouritsen, O. G., 2003, I: FEBS Letters. 552, 2-3, s. 253-258 6 s.

Membrane partitioning of acyl-CoA esters and reversal by acyl-CoA binding protein studied by AFM

Simonsen, A. C., Jensen, U. B., Færgeman, N. J., Knudsen, J. & Mouritsen, O. G., 2003, I: *Biophysical Journal*. 84, s. 199a

Structure, function and phylogeny of acyl-CoA binding protein

Mandrup, S., Færgeman, N. J. & Knudsen, J., 2003, *Cellular Proteins and their Fatty Acids in Health and Disease*. Duttaroy, A. K. R. & Spener, F. . R. (red.). Weinheim: Wiley-VCH, s. 151-71

Vectorial acylation in *Saccharomyces cerevisiae*. Fat1p and fatty acyl-CoA synthetase are interacting components of a fatty acid import complex

Zou, Z., Tong, F., Færgeman, N. J., Børsting, C., Black, P. N. & DiRusso, C. C., 2003, I: *Journal of Biological Chemistry*. 278, 18, s. 16414-22

Acyl-CoA binding protein is an essential protein in mammalian cell lines

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Wadum, M. C. T., Villadsen, J., Feddersen, S., Møller, R. S., Neergaard, T. B. F., Kragelund, B. B., Højrup, P., Færgeman, N. J. & Knudsen, J., 1. jul. 2002, I: *Biochemical Journal*. 365, Pt 1, s. 165-72

RNA interferens, cellebiologi i det 21. århundrede?

Møller, R. S., Hørning, O. & Faergeman, N. J., 2002, I: *Biozoom*. 4, s. 30-33

Depletion of Acyl-Coenzyme A-Binding Protein Affects Sphingolipid Synthesis and Causes Vesicle Accumulation and Membrane Defects in *Saccharomyces cerevisiae*

Gaigg, B., Neergaard, T. B., Schneiter, R., Hansen, J. K., Faergeman, N. J., Jensen, N. A., Andersen, J. R., Friis, J., Sandhoff, R., Schröder, H. D. & Knudsen, J., 2001, I: *Molecular Biology of the Cell*. 12, 4, s. 1147-1160 13 s.

The Acyl-CoA synthetases encoded within FAA1 and FAA4 in *Saccharomyces cerevisiae* function as components of the fatty acid transport system linking import, activation, and intracellular Utilization

Færgeman, N. J., Black, P. N., Zhao, X. D., Knudsen, J. & DiRusso, C. C., 2001, I: *Journal of Biological Chemistry*. 276, 40, s. 37051-9

Long-chain acyl-CoA-dependent regulation of gene expression in bacteria, yeast and mammals

Black, P. N., Færgeman, N. J. & DiRusso, C. C., 2000, I: *Journal of Nutrition*. 130, 2S Suppl, s. 305S-309S

Murine FATP alleviates growth and biochemical deficiencies of yeast fat1Delta strains

Dirusso, C. C., Connell, E. J., Færgeman, N. J., Knudsen, J., Hansen, J. K. & Black, P. N., 2000, I: *The FEBS Journal*. 267, 14, s. 4422-4433

Possible roles of long-chain fatty Acyl-CoA esters in the fusion of biomembranes

Færgeman, N. J., Ballegaard, T., Knudsen, J., Black, P. N. & DiRusso, C., 2000, *Fusion of Biological Membranes and Related Problems*. Hilderson, H. & Fuller, S. (red.). Kluwer Academic Publishers, Bind 34. s. 175-231 (Subcellular biochemistry).

Role of acylCoA binding protein in acylCoA transport, metabolism and cell signaling

Knudsen, J., Jensen, M. V., Hansen, J. K., Færgeman, N. J., Neergaard, T. B. & Gaigg, B., 1999, I: *Molecular and Cellular Biochemistry*. 192, 1-2, s. 95-103 9 s.

Role of long-chain fatty acyl-CoA esters in the regulation of metabolism and in cell signalling

Færgeman, N. J. & Knudsen, J., apr. 1997, I: *Biochemical Journal*. 323, 1, s. 1-12

Disruption of the *Saccharomyces cerevisiae* homologue to the murine fatty acid transport protein impairs uptake and growth on long-chain fatty acids

Færgeman, N. J., DiRusso, C. C., Elberger, A., Knudsen, J. & Black, P. N., mar. 1997, I: Journal of Biological Chemistry. 272, 13, s. 8531-8

Thermodynamics of Ligand Binding to Acyl-Coenzyme A Binding Protein Studied by Titration Calorimetry

Færgeman, N. J., Sigurskjold, B. W., Kragelund, B. B., Andersen, K. V. & Knudsen, J., 1. jan. 1996, I: Biochemistry. 35, 45, s. 14118-14126

Analysis of the ligand binding properties of recombinant bovine liver-type fatty acid binding protein

Rolf, B., Oudenampsen-Krüger, E., Borchers, T., Færgeman, N. J., Knudsen, J., Lezius, A. & Spener, F., 1995, I: BBA General Subjects. 1259, 3, s. 245-253

Yeast acyl-CoA-binding protein: acyl-CoA-binding affinity and effect on intracellular acyl-CoA pool size.

Knudsen, J., Faergeman, N. J., Skøtt, H., Hummel, R., Børsting, C., Rose, T. M., Andersen, J. S., Højrup, P., Roepstorff, P. & Kristiansen, K., 1. sep. 1994, I: Biochemical Journal. 302 (Pt 2), s. 479-85 6 s.

Acyl-CoA-binding protein (ACBP) can mediate intermembrane acyl-CoA transport and donate acyl-CoA for beta-oxidation and glycerolipid synthesis

Rasmussen, J. T., Færgeman, N. J., Kristiansen, K. & Knudsen, J., 1994, I: Biochemical Journal. 299 (Pt 1), s. 165-70 6 s.

Aktiviteter

Impaired epidermal barrier function compromises SREBP-mediated lipogenic gene expression in liver

Nils J. Færgeman (Foredragsholder)
22. jul. 2013

Molecular Genetics and Quantitative Proteomics to Identify Novel Regulators of Lipid Metabolism

Nils J. Færgeman (Foredragsholder)
27. jan. 2012

Keystone Conference Lipid biology and Lipotoxicity

Nils J. Færgeman (Deltager)
15. maj 2011 → 20. maj 2011

Functional analyses of acyl-CoA binding proteins reveal tissue and paralogue specific functions in lipid storage and fatty acid degradation in *C. elegans*.

Nils J. Færgeman (Foredragsholder)
12. mar. 2010

3rd Annual NordForsk Nordic *C. elegans* Researcher Network,

Nils J. Færgeman (Deltager)
5. mar. 2010 → 7. mar. 2010

Autophagy provides an evolutionary conserved survival mechanism during perturbation of fatty acid metabolism

Nils J. Færgeman (Foredragsholder)
20. nov. 2009

Dansk Bioteknologisk Selskab (Ekstern organisation)

Nils J. Færgeman (Medlem)
1. maj 2009 → ...

Lipids (Tidsskrift)

Nils J. Færgeman (Redaktør)
1. dec. 2007 → ...

MAA-1, A novel Acyl-CoA Binding Protein Involved in Endosomal Vesicle Transport in *C. elegans*

Nils J. Færgeman (Oplægsholder)

29. apr. 2006 → 3. maj 2006

Biokemisk forening (Ekstern organisation)

Nils J. Færgeman (Medlem)

3. jan. 2005 → ...

Priser

2nd Best Poster Danish Society for Neuroscience Annual Meeting

Nygaard, Kevin Heebøll (Modtager), Havelund, Jesper (Modtager), Nielsen, Troels Halfeld (Modtager), Nordström, Carl-Henrik (Modtager), Færgeman, Nils Joakim K. (Modtager), Poulsen, Frantz Rom (Modtager), Gramsbergen, Jan Bert (Modtager) & Forsse, Axel (Modtager), 2018

Presse/medie

Gæren er humlen ved det hele

Nils J. Færgeman

15/03/2014

1 element af Mediedækning

På jagt efter dansk ølgær

Nils J. Færgeman

02/02/2014

1 element af Mediedækning

Projekter

Carlsbergfondet - Nordic Metabolomics Conference Copenhagen, Denmark September 2022

Færgeman, N. J. K.

02/09/2022 → 30/09/2022

Carlsbergfondet - Regulering af lipid homeostase i *C. elegans*

Færgeman, N. J. K.

01/01/2008 → 31/12/2009

DEVELOPNOID - Lundbeckfonden - Characterizing early brain development in health and disease using brain organoids

Færgeman, N. J. K.

01/01/2021 → 31/12/2025

Diabetesforeningen - Identification of novel biomolecules and their molecular targets which regulate lipid homeostasis in eukaryotes

Færgeman, N. J. K.

01/03/2008 → 01/03/2009

Evolve Biotech A/S - Agreement on PhD project - employment in a company

Færgeman, N. J. K.

19/05/2014 → 18/05/2017

Leo Pharma - Regulatory Function of Dermal Adipocytes in Skin and Systemic Energy Homeostasis

Færgeman, N. J. K.

01/08/2023 → 31/07/2026

Lundbeckfonden - Acyl-C oA bindende proteins regulerende funktion af cellulær ceramid syntese

Færgeman, N. J. K.

01/01/2013 → 31/12/2014

Lundbeckfonden -Grants for larger biomedical science projects - A novel link between complex lipid biosynthesis and epilepsy in humans

Færgeman, N. J. K.

01/01/2014 → 31/03/2017

Lundbeckfonden - Molecular Circuits Regulating lipid and Energy Homeostasis

Færgeman, N. J. K.

01/01/2012 → 31/12/2014

Medizinische Universität Graz - Analyses for Medizinische Uni Graz visit SDU

Færgeman, N. J. K.

01/10/2022 → 31/12/2022

Miljø- og Fødevareministeriet - Prydplanter med øget kuldestress tolerance og reduceret energibehov

Færgeman, N. J. K.

01/01/2009 → 31/12/2012

Novo Nordisk Fonden 1/3 PhD

Færgeman, N. J. K.

01/09/2012 → 31/12/2017

Novo Nordisk Fonden - Funktionen af Acyl-CoA Bindende Protein i syntesen af meget langkædede fedtsyrer og komplekse lipider i mus

Færgeman, N. J. K.

01/01/2012 → 31/12/2012

Novo Nordisk Fonden - Klinisk og basal biomedicin - Komplekse lipiders rolle i regulering af udvikling og aldring af den multicellulære organisme C. elegans

Færgeman, N. J. K.

01/01/2010 → 31/12/2011

Novo Nordisk Fonden - klinisk og basal biomedicin - Sammenhæng mellem fedtsyre-metabolisme, autofagi og lipotoxicitet

Færgeman, N. J. K.

01/01/2008 → 31/12/2009

Novo Nordisk fonden - Klinisk og basal biomedicin - Transkriptional regulering af lipid homeostase i C. elegans

Færgeman, N. J. K.

01/01/2009 → 31/12/2011

Novo Nordisk Fonden - Nordic Metabolomics Conference 2022

Færgeman, N. J. K.

01/07/2022 → 01/07/2022

Novo Nordisk Fonden - Novel Regulatory Mechanisms of Ceramide Synthesis

Færgeman, N. J. K.

01/01/2015 → 31/12/2016

Novo Nordisk Fonden - Sensing the Environment: Regulation of Systemic Homeostasis and Dermal Adipocyte Differentiation by the Epidermal Barrier

Færgeman, N. J. K.

01/01/2018 → 31/12/2019

Novo Nordisk Fonden - Tissue-specific Control of Fatty Acid Channeling in Metabolism, Cachexia and Obesity

Færgeman, N. J. K.

01/01/2021 → 31/12/2022

Region Hovedstaden - Nordsjællands Hospital - AFTALE OM SAMFINANSIERET FORSKNING

Færgeman, N. J. K.

01/10/2020 → 01/05/2021

Samarbejdsaftale med Novo Nordisk A/S

Færgeman, N. J. K.

01/01/2018 → 30/06/2018

Samarbejdsaftale mellem Nils J. Færgeman og Interdisziplinäre Zentrum für Klinische Forschung (IZKF)

Færgeman, N. J. K.

01/04/2020 → 30/06/2020

Samarbejdsaftale mellem SDU og KU - Study of the oral microbiome and metabolome of pre-diabetic individuals from the Addition-Pro cohort

Færgeman, N. J. K.

01/12/2017 → 30/11/2018

Targeted metabolomics – aftale med KU

Færgeman, N. J. K.

01/01/2018 → 30/06/2019

Uddannelse- og Forskningsministeriet - Innovationsfonden - Health promoting effects of bioactive compounds in plants.

Færgeman, N. J. K.

01/01/2008 → 30/06/2012

Uddannelses- og Forskningsministeriet - FNU - Central Signalling Hubs and Molecular Circuits in Eukaryotic Energy and Lipid Metabolism

Færgeman, N. J. K.

01/01/2013 → 31/12/2016

Uddannelses- og Forskningsministeriet - FNU - Molecular Switches and Circuits Orchestrating Mammalian Lipid Metabolism⁶⁴⁹

Færgeman, N. J. K.

01/01/2017 → 31/12/2019

Uddannelses- og Forskningsministeriet - FNU - Regulatory roles of acyl-CoA

Færgeman, N. J. K.

01/01/2007 → 01/04/2010

Uddannelses- og Forskningsministeriet - FNU - Role of metabolism in the regulation of life span of cells and organisms

Færgeman, N. J. K.

01/01/2010 → 31/12/2012

Uddannelses- og Forskningsministeriet - FSS -Unanticipated function of the epidermal permeability barrier in whole body physiology

Færgeman, N. J. K.

01/01/2015 → 03/03/2018

Undervisnings-CV

Pædagogisk uddannelse

2003 Adjunktpædagogikum

Uddannelsesadministrative opgaver

2018- Formand for uddannelseskomiteen under Dansk Diabetes Akademi
2013-2017 Medlem af uddannelseskomiteen under Dansk Diabetes Akademi
2011-2014 Medlem af undervisningsudvalget, Institut for Biokemi og Molekylær Biologi, Syddansk Universitet
2007-2011 Undervisningsudvalgsformand Institut for Biokemi og Molekylær Biologi, Syddansk Universitet
2004-2007 Medlem af undervisningsudvalget, Institut for Biokemi og Molekylær Biologi, Syddansk Universitet
2003-2012 Medstifter og bestyrelsesmedlem for PhD forskerskolen "The Danish Graduate School of Functional Genomics and Proteomics as Applied to Metabolic Diseases"

Erfaring med undervisning, vejledning og eksamen

2004-2007 BM113 Biochemistry and Molecular Cell Biology (12 ECTS) Responsible teacher since 2004 (course discontinued in 2007)
2007-2016 BMB505 Metabolic and hormonal regulation (10 ECTS) Responsible teacher, course renumbered to BMB536 in 2016
2016- BMB536 Metabolic and hormonal regulation (7.5 ECTS) Responsible teacher,
2002- BMB202 Protein Purification (10 ECTS), Responsible teacher
2004-2018 Proteinoprensning for Diplumlaboranter
2007-2014 BMB521 Metabolic and hormonal regulation A (5 ECTS, held together with the first half of BMB505) (only for Pharmacy students) Responsible teacher since 2007
Since 2003 Supervised and mentored more than 50 Bsc students, 21 Msc students 15 PhD students and 4 Post docs.

Metoder, materialer og redskaber

Uddannelsesudvikling og universitetspædagogisk (følge)forskning, herunder pædagogiske priser

2009 Udnævnt til bedste underviser på Naturvidenskabeligt Fakultet, SDU

Refleksion over egen pædagogisk praksis og fremtidig udvikling, herunder undervisningsevalueringer