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Publication: Research - peer-review › Journal article – Annual report year: 2017

A safflower oil-based high fat/high-sucrose diet modulates the gut microbiota and liver phospholipid profiles associated with early glucose intolerance in the absence of tissue inflammation.
Publication: Research - peer-review › Journal article – Annual report year: 2017

A study of associations between early DHA status and fatty acid desaturase (FADS) SNP and developmental outcomes in children of obese mothers.
Publication: Research - peer-review › Journal article – Annual report year: 2017

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Publication: Research - peer-review › Journal article – Annual report year: 2017

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Human gut microbes impact host serum metabolome and insulin sensitivity
Publication: Research - peer-review › Journal article – Annual report year: 2016

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Publication: Research - peer-review › Journal article – Annual report year: 2016

Plasma amino acid levels are elevated in young, healthy low birth weight men exposed to short-term high-fat overfeeding
Publication: Research - peer-review › Journal article – Annual report year: 2016

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Emulsifying triglycerides with dairy phospholipids instead of soy lecithin modulates gut lipase activity: Emulsifying triglycerides with dairy phospholipids
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Gliadin affects glucose homeostasis and intestinal metagenome in C57BL6 mice fed a high-fat diet
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Gliadin intake alters intestinal microbiota, glucose and lipid metabolism, and adipose tissue and liver immune cells
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Publication: Research - peer-review › Journal article – Annual report year: 2015

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Multiple Chemical Sensitivity: Baseline cytokine profiling and characterization of airway immunological response and gene expression profiling upon chemical exposure
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Obesity-associated fecal microbiota from human modulates body mass and metabolites in mice
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2015

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Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2015

Reduced ex vivo stimulated IL-6 response in infants randomized to fish oil from 9 to 18 months, especially among PPARG2 and COX2 wild types
Publication: Research - peer-review › Journal article – Annual report year: 2015

The effect of a short-term high-fat overfeeding on plasma levels of acylcarnitines in young, healthy men with low or normal birth weight
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2015
The effect of maternal inflammation on foetal programming of metabolic disease
Publication: Research - peer-review › Journal article – Annual report year: 2015

Whey-reduced weight gain is associated with a temporary growth reduction in young mice fed a high-fat diet
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Acute and perinatal-programming effects of a fat-rich diet on rat muscle mitochondrial function and hepatic lipid accumulation.
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The effect of a short-term high-fat overfeeding on plasma levels of amino acids in young, healthy men with low or normal birth weight
Adipose tissue trans fatty acids and changes in body weight and waist circumference
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Gestation reverses obesity-induced hepatic inflammation in mice
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Muscle ceramide content is similar after 3 weeks’ consumption of fat or carbohydrate diet in a crossover design in patients with type 2 diabetes
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Maternal energy intake during lactation and gestation has an effect on leptin levels in the young and adult pups
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The Effect of Dietary Fish Oil in addition to Lifestyle Counselling on Lipid Oxidation and Body Composition in Slightly Overweight Teenage Boys
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Changes in skin barrier during treatment with systemic alitretinoin: focus on skin susceptibility and stratum corneum ceramides
Publication: Research - peer-review › Journal article – Annual report year: 2010

Chronic exposure of adults and embryos of Pandalus borealis to oil causes PAH accumulation, initiation of biomarker responses and an increase in larval mortality
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Publication: Research - peer-review › Journal article – Annual report year: 2010

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Publication: Communication › Journal article – Annual report year: 2009

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Publication: Research - peer-review › Journal article – Annual report year: 2008

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Kinetic study of sphingomyelin hydrolysis for ceramide production
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Publication: Research › Sound/Visual production (digital) – Annual report year: 2007

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Enzymatic Production of Ceramide from Sphingomyelin
Publication: Research › Paper – Annual report year: 2007

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The potential of gut bacteria-matured DCs to activate CD4+ T cells highly depends on the lipid composition of the T cell membrane
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The source of dietary fatty acids alters the activity of secretory sphingomyelinase in the rat
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Publication: Research - peer-review » Poster – Annual report year: 2006

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Exploring Biosynthetic Control in Lipid Metabolism
Publication: Research - peer-review » Conference abstract for conference – Annual report year: 2006

The dietary fatty acid source regulates the activity of secretory sphingomyelinase, an enzyme involved in inflammatory signalling and atherogenesis
Publication: Research - peer-review » Conference abstract for conference – Annual report year: 2006

The dietary fatty acid source regulates the activity of secretory sphingomyelinase, an enzyme involved in inflammatory signalling and atherogenesis
Publication: Research - peer-review » Conference abstract for conference – Annual report year: 2006

Combinatorial effects of dietary fatty acids and probiotics on T-cell responses induced by dendritic cells
Publication: Research - peer-review » Poster – Annual report year: 2005
Enzymatic modification of sphingomyelin
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2005

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Zhang, L., Hellgren, L. & Xu, X. 2005
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Milk-derived GM(3) and GD(3) differentially inhibit dendritic cell maturation and effector functionalities
Publication: Research - peer-review › Journal article – Annual report year: 2005


Sphingolipids in signal transduction and pathophysiology
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A solid dietary fat containing fish oil redistributes lipoprotein subclasses without increasing oxidative stress in men
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Publication: Research - peer-review › Journal article – Annual report year: 2004

Effects of Dietary fatty acid modification in solid fats on blood lipids, lipoprotein subclasses, and oxidative stress in men
Publication: Research - peer-review › Journal article – Annual report year: 2004

Lipids rich in phosphatidylethanolamine from natural gas-utilizing bacteria reduce plasma cholesterol and classes of phospholipids: A comparison with soybean oil
Publication: Research - peer-review › Journal article – Annual report year: 2004

Sphingolipids in the human diet - occurrence and physiological effects
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Publication: Research - peer-review › Journal article – Annual report year: 2002
Age-dependent variation in membrane lipid synthesis in leaves of garden pea (Pisum sativum L.)
Publication: Research - peer-review › Journal article – Annual report year: 2001

Effects of moderately enhanced levels of ozone on the acyl lipid composition and dynamical properties of plasma membranes isolated from garden pea (Pisum sativum)
Publication: Research - peer-review › Journal article – Annual report year: 2001

Fat Digestion and Absorption
Hellgren, L. 2001 In : Journal of the Science of Food and Agriculture. 81, 15
Publication: Research - peer-review › Review – Annual report year: 2001

Occurrence of bioactive sphingolipids in meat and fish products
Hellgren, L. 2001 In : European Journal of Lipid Science and Technology. 103, 10, p. 661-667
Publication: Research - peer-review › Journal article – Annual report year: 2001

The impact of different phytosterols on the molecular dynamics in the hydrophobic/hydrophilic interface phosphatidylcholine- liposomes
Publication: Research - peer-review › Journal article – Annual report year: 2001

Expression of barley serpin genes, cloning of wheat serpins, and a loop deletion in Arabidopsis thaliana serpin sequences
Publication: Research › Article in proceedings – Annual report year: 1999

A novel method in studies of dynamical properties in plant membrane: Laurdan fluorescence spectroscopy
Hellgren, L. 1996 In : Plant Physiology and Biochemistry. 34, 4, p. 455-463
Publication: Research - peer-review › Journal article – Annual report year: 1996

Plant membrane lipids; the impact of ozone on lipid composition, lipid metabolism and the dynamical properties of plasma membranes
Hellgren, L. 1996
Publication: Research › Ph.D. thesis – Annual report year: 1996

In situ leaf lipid metabolism in garden pea (Pisum sativum L.) exposed to moderately enhanced levels of ozone
Publication: Research - peer-review › Journal article – Annual report year: 1995

The leaf acyl composition of plants exposed to moderately enhanced levels of ozone: Species, age and dose dependence
Publication: Education › Book chapter – Annual report year: 1995

Effects of moderately enhanced levels of ozone on the acyl lipid composition of leaves of garden pea (Pisum sativum)
Publication: Research - peer-review › Journal article – Annual report year: 1994

Isolation of a putative vesicular intermediate in the cell-free transfer of membrane from transitional endoplasmatic reticulum to the Golgi apparatus of etiolated seedlings of garden pea
Publication: Research - peer-review › Journal article – Annual report year: 1993
ATP-dependent cell-free transfer of membrane lipids from nuclei to Golgi apparatus of germinating axes of garden pea
Publication: Research - peer-review › Journal article – Annual report year: 1992

ATP-induced budding of nuclear envelope in vitro
Publication: Research - peer-review › Journal article – Annual report year: 1992

Metabolism and in vivo transport of phosphatidylinositol in hypocotyls of dark-grown soybean
Publication: Education › Book chapter – Annual report year: 1990

Projects:

InfantBrain - New infant formulas to promote optimal brain development
Heerup, C., Hellgren, L., Müllertz, A. & Nielsen, K. F. 01/03/2016 → 14/12/2017
Project: PhD

Biomarkers and their use in age-related disease prediction - exploring the relationship between obesity and type II diabetes
Project: PhD

Deciphering complex regulatory traits relating to host metabolism and immunity
Project: PhD

Revealing the pathophysiology of multiple chemical sensitivity; Immunologic response and gene expression profiling of individuals suffering from chemical sensitivity after a controlled chemical exposure
Project: PhD

Regulation of Host Metabolism by the Gut Microbiota
Andersen, D., Hellgren, L., Pedersen, S. B., Lahl, K., Frøkjær, H. & Zeyda, M. 01/10/2012 → 26/04/2017
Project: PhD

Can the use of dairy phospholipids as emulgators protect against a pro-obesogenic intestinal microbiota?
Licht, T. R., Hellgren, L. & Bennike, R. M. G. 02/01/2012 → 31/12/2015
Project

Effects of emulgating dietary fat with dairy phospholipids on establishment of the gut microbiota
Project: PhD

The role of fetal exposures to endotoxins in fetal programming of metabolic syndrome
Innovative Applications of marine phospholipids for development of healthy foods
15/10/2009 → 24/04/2013
Project: PhD

Improved nutritional Properties of dairy fat from cows feed green plant material - the role of peroxime Proliferator-activator receptor agonists
01/04/2008 → 18/04/2012
Project: PhD

Omega-3 food emulsions: Control and Investigation of Molecular Structure in Relation to Lipid Oxidation
Horn, A. F., Jacobsen, C., Nielsen, N. S., Szabo, P., Hellgren, L., Andersen, M. L. & Genot, C.
01/04/2008 → 28/03/2012
Project: PhD

Impact of Colonization on Immune System Development
01/11/2007 → 02/07/2014
Project: PhD

The Influence of the Physical Properties of Lipid-Formulations on the Developing Immune System in Early Life
Mathiassen, J. H., Hellgren, L. & Frøkjær, H.
01/09/2007 → 09/07/2013
Project: PhD

Nutritional Immunology
07/08/2007 → 30/11/2011
Project

Nutritional Immunology
01/08/2007 → 31/12/2011
Project

Nutrigenomic Studies of Interactions between gut Microbiota, Enterocytes and the Immune System
01/07/2007 → 19/12/2014
Project: PhD

Milk Bioactives to Prevent Gut Inflammation
01/02/2007 → 22/09/2010
Project: PhD

Nutritional Immunology
04/01/2007 → 31/12/2011
Project
Enchanging Production of Nutraceuticals in Genetically Engineered Saccharomyces Cerevisiae
de Andrade Pereira Tavares, S., Frisvad, J. C., Gunnarsson, N., Hellgren, L., Piskur, J. & van den Brink, H.
01/01/2007 → 28/09/2011
Project: PhD

Isolation of human leukocytes and their chromosomes (part of the total chromosomal analysis system)
01/11/2006 → 26/09/2010
Project: PhD

Glycoglycerolipids Enzymatic Synthesis and Food Applications
Acharya, A. H., Hellgren, L., Sparsø, F. V. & Xu, X.
01/10/2006 → 30/09/2008
Project: PhD

Improvement of Oxidative Stability of Fish Oil Enriched Foods - Ingredients Interactions and Antioxidant Effects
Sørensen, A. M., Jacobsen, C., Nielsen, N. S., Hellgren, L., Olsen, K. & Villeneuve, P.
01/08/2006 → 23/06/2010
Project: PhD

Nutritious and Tasty n-3 PUFA rich products for a slim and healthy population: Weight reducing and Metabolic Syndrome Effects of n-3 LCPUFA and LCF
Hellgren, L.
01/08/2006 → 31/07/2010
Project

Enzymatic production of ceramide from sphingomyelin
Zhang, L. & Hellgren, L.
01/03/2005 → 28/02/2008
Project

Enzymatic Production of Ceramide from Sphingomyelin
Xu, X. & Hellgren, L.
01/03/2005 → 31/07/2008
Project

Enzymatic Production of Ceramide from Sphingomyelin
01/03/2005 → 01/04/2009
Project: PhD

Production and Nutritional Aspects of Butter Enriched with Diacylglycerols
15/10/2002 → 27/03/2006
Project: PhD

Marine feed in West Greenland - Human nutrition and trophic relations
01/10/2002 → 22/09/2006
Project: PhD

Production of magarine fats by lipase-catalysed interesterification: a process, quality, and nutritional study for industrial application
01/10/2001 → ...
The importance of sphingolipid metabolism on cholesterol uptake
Bukhave, K. & Hellgren, L.
01/01/2000 → 31/12/2000
Project

Nutritional importance of dietary sphingolipids
Hellgren, L.
01/10/1998 → ...
Project

Absorption og metabolisme af omestrede triglycerider
Vistisen, B., Høj, C., Mu, H., Hellgren, L., Christensen, M. S. & Müllertz, A.
01/08/1998 → 21/02/2003
Project: PhD

Ernæringsmæssige effekter af målkehæftetstoffers fysiske tilstand
01/04/1997 → 07/10/2002
Project: PhD