Carl-Erik Høy - DTU Orbit (29/01/2018)

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Department of Biochemistry and Nutrition - Professor, Former

Publications:

**Sex and muscle structural lipids in obese subjects - an impact on insulin action?**
Publication: Research - peer-review › Journal article – Annual report year: 2008

**Desaturation of skeletal muscle structural and depot lipids in obese individuals during a very-low-calorie diet intervention**
Publication: Research - peer-review › Journal article – Annual report year: 2007

**Dietary intervention increases n-3 long-chain polyunsaturated fatty acids in skeletal muscle membrane phospholipids of obese subjects. Implications for insulin sensitivity**
Publication: Research - peer-review › Journal article – Annual report year: 2006

**Dietary structured lipids for post-weaning piglets: fat digestibility, nitrogen retention and fatty acid profiles of tissues**
Publication: Research - peer-review › Journal article – Annual report year: 2006

**Effects of increasing dietary concentrations of specific structured triacylglycerides on performance and nitrogen and energy metabolism in broiler chickens**
Publication: Research - peer-review › Journal article – Annual report year: 2006

**Lymphatic fatty acids in canine with pharmaceutical formulations containing structured triacylglycerols**
Publication: Research - peer-review › Journal article – Annual report year: 2006

**Lymphatic recovery of exogenous oleic acid in rats on long chain or specific structured triacylglycerol diets**
Vistisen, B., Mu, H. & Høy, C-E. 2006 In : LIPIDS. 41, 9, p. 827-834
Publication: Research - peer-review › Journal article – Annual report year: 2006

**The recovery of C-13-labeled oleic acid in rat lymph after administration of long chain triacylglycerols or specific structured triacylglycerols**
Publication: Research - peer-review › Journal article – Annual report year: 2006

**The stereospecific triacylglycerol structures and fatty acid profiles of human milk and infant formulas**
Publication: Research - peer-review › Journal article – Annual report year: 2006

**Lymphatic transport in rats of structured oils containing conjugated linoleic acids**
Publication: Research - peer-review › Journal article – Annual report year: 2005
13C-labeled 18 : 2n-6 recovered in brush border membrane phospholipids short time after administration.
Publication: Research - peer-review › Journal article – Annual report year: 2004

Does fat in milk, butter and and cholesterol differently?
Publication: Research - peer-review › Journal article – Annual report year: 2003

Effects of medium-chain fatty acids and oleic acid on blood lipids, lipoproteins, glucose, insulin, and lipid transfer protein activities
Publication: Research - peer-review › Journal article – Annual report year: 2004

Influence of dietary triacylglycerol structure and level of n-3 fatty acids administered during development on brain phospholipids and memory and learning ability of rats
Publication: Research - peer-review › Journal article – Annual report year: 2004

Lymphatic fat absorption varies among rats administered dairy products differing in physiochemical properties
Publication: Research - peer-review › Journal article – Annual report year: 2004

Maternal fish oil supplementation in lactation: Effect on visual acuity and n-3 fatty acid content of infant erythrocytes
Publication: Research - peer-review › Journal article – Annual report year: 2004

The digestion of dietary triacylglycerols
Mu, H. & Høy, C-E. 2004 In : Progress in Lipid Research. 43, p. 105-133
Publication: Research - peer-review › Journal article – Annual report year: 2004

Transport of C-13-labelled linoleic and C-13-labelled caprylic acid in rat plasma after administration of specific structured triacylglycerols
Publication: Research - peer-review › Journal article – Annual report year: 2004

Effect of orlistat on fat absorption in rats: A comparison of normal rats and rats with diverted bile and pancreatic juice
Publication: Research - peer-review › Journal article – Annual report year: 2003

Fat digestibility, nitrogen retention, and fatty acid profiles in blood and tissues of post-weaning piglets fed interesterified fats
Publication: Research - peer-review › Journal article – Annual report year: 2003

Fremstilling af et nyt smørprodukt med forbedrede emælingsmæssige egenskaber
Publication: Research › Journal article – Annual report year: 2003
Gastric emptying in rats following administration of a range of different fats measured as acetaminophen concentration in plasma
Publication: Research - peer-review › Journal article – Annual report year: 2003

Influence of maternal dietary n-3 fatty acids on breast milk and liver lipids of rat dams and offspring - a preliminary study
Publication: Research - peer-review › Journal article – Annual report year: 2003

Minor amounts of plasma medium-chain fatty acids and no improved time trial performance after consuming lipids
Publication: Research - peer-review › Journal article – Annual report year: 2003

Recoveries of rat lymph FA after administration of specific structured C-13-TAG
Vistisen, B., Mu, H. & Høy, C-E. 2003 In : Lipids. 38, 9, p. 903-911
Publication: Research - peer-review › Journal article – Annual report year: 2003

Absorption and metabolism of structured lipids
Publication: Research - peer-review › Journal article – Annual report year: 2002

A packed-bed enzyme mini-reactor for the production of structured lipids using nonimmobilized lipases
Publication: Research - peer-review › Journal article – Annual report year: 2002

Different effects of diets rich in olive oil, rapeseed oil and sunflower-seed oil on postprandial lipid and lipoprotein concentrations and on lipoprotein oxidation susceptibility
Publication: Research - peer-review › Journal article – Annual report year: 2002

Distribution of medium-chain FA in different lipid classes after administration of specific structured TAG in rats
Mu, H. & Høy, C-E. 2002 In : Lipids. 37, 3, p. 329-331
Publication: Research - peer-review › Journal article – Annual report year: 2002

Effect of 3 modified fats and a conventional fat on appetite, energy intake, energy expenditure, and substrate oxidation in healthy men
Publication: Research - peer-review › Journal article – Annual report year: 2002

Production of structured lipids in a packed-bed reactor with Thermomyces lanuginosa lipase
Publication: Research - peer-review › Journal article – Annual report year: 2002

Production of structured phospholipids by lipase-catalyzed acidolysis: optimization using response surface methodology
Publication: Research - peer-review › Journal article – Annual report year: 2002

Comparison of total oral bioavailability and the lymphatic transport of halofantrine from three different unsaturated triglycerides in lymph-cannulated conscious rats
Chromatographic methods in the monitoring of lipase-catalyzed interesterification
Publication: Research - peer-review › Journal article – Annual report year: 2000

Deficiencies of essential fatty acids, vitamin A and E and changes in plasma lipoproteins in patients with reduced fat absorption or intestinal failure
Publication: Research - peer-review › Journal article – Annual report year: 2000

Effect of meal fat quality on oxidation resistance of postprandial VLDL and LDL particles and plasma triacylglycerol level
Nielsen, N. S., Marckmann, P. & Høy, C-E. 2000 In : Journal of Nutrition. 84, 6, p. 855-863
Publication: Research - peer-review › Journal article – Annual report year: 2000

Effect of simulated household heating on fat absorption
Publication: Research - peer-review › Article in proceedings – Annual report year: 2000

Effects of different medium-chain fatty acids on intestinal absorption of structured triacylglycerols
Publication: Research - peer-review › Journal article – Annual report year: 2000

Effects of tracylglycerol structure on fat absorption
Publication: Research - peer-review › Article in proceedings – Annual report year: 2000

Identification of diacylglycerols and triacylglycerols in a structured lipid sample by atmospheric pressure chemical ionization liquid chromatography/mass spectrometry
Publication: Research - peer-review › Journal article – Annual report year: 2000

Intestinal metabolism of interestified fats
Publication: Research - peer-review › Article in proceedings – Annual report year: 2000

Lipase-catalyzed production of structured lipids via acidolysis of fish oil with caprylic acid
Publication: Research - peer-review › Journal article – Annual report year: 2000

Lipzyme IM-catalyzed interesterification for the production of margarine fats in a 1 kg scale stirred tank reactor
Publication: Research - peer-review › Journal article – Annual report year: 2000

Lipzyme IM-catalyzed interesterification for the production of margarine fats in a 1 kg scale stirred tank reactor
Publication: Research - peer-review › Journal article – Annual report year: 2000

Lymphatic transport in rats of several dietary fats differing in fatty acid profile and triacylglycerol structure
Porsgaard, T. & Høy, C-E. 2000 In : Journal of Nutrition. 130, 6, p. 1619-1624
Publication: Research - peer-review › Journal article – Annual report year: 2000

Plasma phospholipid fatty acid pattern in severe liver disease
Splanchnic metabolism of fuel substrates in acute liver failure

Structured lipids improve fat absorption in normal and malabsorbing rats

Time-related fatty acid profiles of plasma and lymph after gastric administration of fats to rats fed high-fat diets

Absorption in rats of rapeseed oil, soybean oil, and sunflower oils before and following moderate heating
Porsgaard, T., Zhang, H. & Høy, C-E. 1999 In : Lipids. 34, p. 727-732

Absorption in rats of rapeseed, soybean, and sunflower oils before and following moderate heating
Porsgaard, T. C., Zhang, H., Nielsen, R. G. & Høy, C-E. 1999 In : Lipids. 34, 7, p. 727-732

Differences in essential fatty acid requirements by enteral and parenteral routes of administration in patients with fat malabsorption

Lymphatic Fatty Acid Absorption Profile During 24 Hours After Administration of Triglycerides to Rats
Porsgaard, T. C., Straarup, E. M. & Høy, C-E. 1999 In : Lipids. 34, p. 103-107

Parameters affecting diacylglycerol formation during the production of specific-structured lipids by lipase-catalyzed interesterification

Production of specifically structured lipids by enzymatic interesterification in a pilot enzyme bed reactor: process optimization by response surface methodology

Production of structured lipids by lipase-catalyzed interesterification in a packed bed reactor: Effect of reaction parameters on the level of diacylglycerols in the products

Schistosoma japonicum infection and serum and tissue concentrations of retinol and zinc in pigs
Dietary structured triacylglycerols containing docosahexaenoic acid given from birth affect visual and auditory performance and tissue fatty acid profiles of rats
Publication: Research - peer-review › Journal article – Annual report year: 1998

Effects of lipid-borne compounds on the activity and stability of lipases in micro-aqueous systems for lipase-catalyzed reaction
Publication: Research › Article in proceedings – Annual report year: 1998

Essential fatty acid deficiency in patients receiving home parenteral nutrition 1,2
Publication: Research - peer-review › Journal article – Annual report year: 1998

Metabolism of specific structured triacylglycerols
Publication: Research - peer-review › Book chapter – Annual report year: 1998

Pilot batch production of specific-structured lipids by lipase-catalyzed interesterification: preliminary study on incorporation and acyl migration
Publication: Research - peer-review › Journal article – Annual report year: 1998

Production of specific-structured lipids by enzymatic interesterification: elucidation of acyl migration by response surface design
Publication: Research - peer-review › Journal article – Annual report year: 1998

Production of specific-structured lipids by enzymatic interesterification in a pilot continuous enzyme bed reactor
Publication: Research - peer-review › Journal article – Annual report year: 1998

Production of specific structured lipids by enzymatic interesterification: optimization of the reaction by response surface design
Publication: Research - peer-review › Journal article – Annual report year: 1998

Production of Specific Structured Triacylglycerols by Lipase-Catalyzed Interesterification in a Laboratory Scale Continuous Reactor
Publication: Research - peer-review › Journal article – Annual report year: 1998

The effect of fish oil enriched margarine on plasma lipids, low density lipoprotein particle composition, size and susceptibility to oxidation
Publication: Research - peer-review › Journal article – Annual report year: 1998

Early dietary intervention with structured triacylglycerols containing docosahexaenoic acid. Effect on brain, liver, and adipose tissue lipids
Christensen, M. M. & Høy, C-E. 1997 In : Lipids. 32, 2, p. 185-191
Essential fatty acid deficiency in patients with severe fat malabsorption

Incorporation of n-3 polyunsaturated fatty acids of marine or vegetable origin into rat enterocyte phospholipids
Poulsen, C., Christensen, M. S. & Høy, C.-E. 1997 In: Nutrition Research. 17, 1, p. 149-162

Specific-structured lipids: nutritional perspectives and production potentials

Synthesis of structured triacylglycerols by lipase in continuous reactor

Correlation between level of (n-3) polyunsaturated fatty acids in the brain phospholipids and learning ability in rats.: A multiple generation study.

Effects of dietary triacylglycerol structure on triacylglycerols of resultant chylomicrons from fish oil- and seal oil-fed rats
Høy, C.-E. & Christensen, M. S. 1996 In: Lipids. 31, 3, p. 341-344

Effects of triacylglycerol structure of dietary oils rich in n-3 polyunsaturated fatty acids on the triacylglycerol structure of chylomicrons
Christensen, M. S. & Høy, C.-E. 1996 In: Lipids. 31, p. 341-344

Influence of triacylglycerol structure and fatty acid profile of dietary fats on milk triacylglycerols in the rat

Extravascular lipid deposition and morphology of atherosclerosis in heterozygous WHHL rabbits fed vegetable (n-6) and marine (n-3) oils

Projects:
Mælkephospholipider
Høy, C.
01/01/2000 → 31/12/2001
Project
Dietary fats: Technology - Quality- Nutrition
Høy, C., Porsgaard, T., Jensen, K., Nielsen, N. S., Mu, H., Børresen, T., Jacobsen, C., Adler-Nissen, J. & Xu, X.
01/01/1999 → 31/12/2003
Project

Triglycerides for infant formulas
Høy, C., Straarup, E. M., Lien, E. & Fleischer-Michaelsen, K.
01/01/1999 → 31/12/2000
Project

Fats optimized for human nutrition
Høy, C., Christensen, E., Straarup, E. M., Astrup, A., Sandström, B., Marckmann, P. & Tholstrup, T.
01/12/1998 → 30/11/2000
Project

Metabolism of interesterified fats
Høy, C. & Vistisen, B.
01/09/1998 → 31/08/2001
Project

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

Absorption of interesterified fats
Høy, C., Mu, H. & Agersten, J. F.
01/01/1998 → 31/12/2000
Project

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

Production of Specific Structured Lipids by Lipase Catalyzed Interesterification
Xu, X., Adler-Nissen, J., Høy, C. & Villadsen, J.
01/02/1997 → 17/07/2000
Project: PhD

Nutritional properties of milk fats
Høy, C., Jensen, K., Fruekilde, M. & Sandström, B.
01/01/1997 → 31/12/2000
Project

Rapsolies indflydelse på human lipoproteinmetabolisme
Nielsen, N. S. & Høy, C.
01/06/1995 → 20/10/1999
Project: PhD

Studies on the absorption of vegetable oils in the rat
Porsgaard, T., Høy, C., Christensen, M. S. & Christophe, A.
Project: PhD
Svinekød: Forbedrede fetstoffer til start- og fravænningsfoder samt slagtefoder
Straarup, E. M., Høy, C., Christensen, M. S. & Søndergaard, I.
01/04/1995 → 27/01/2000
Project: PhD

Trans-Fedtsyrer Versus mættede fedtsyrer i føden - relationer til metabolismen af polyumættede fedtsyener og blodlipider
Bysted, A., Halmer, G. K., Høy, C. & Christensen, E.
01/04/1995 → 31/07/2000
Project: PhD

Improved fats for piglets.
Høy, C., Straarup, E. M., Kejser, F. & Jakobsen, K.
01/03/1995 → 28/02/1999
Project

Dietary fats for short bowel patients.
Høy, C., Peitersen, G., Mortensen, P. B. & Jeppesen, P.
01/01/1995 → 31/12/1999
Project

Nutritional Effects of the Triacylglycerol structure of Dietary Fats
01/01/1995 → 31/12/1997
Project

Rapeseed oil in human nutrition.
01/01/1995 → 30/12/1999
Project

Structured triglycerides for infant milk formulars
Jensen, M. M. & Høy, C.
01/11/1992 → 24/08/1995
Project: PhD

Structured triglycerides in the prevention of coronary heart disease
Andersen, P. S. & Høy, C.
01/10/1991 → 23/04/1996
Project: PhD

Structured lipids in enteral nutrition
Christensen, M. S. & Høy, C.
01/04/1991 → 16/06/1994
Project: PhD