

List of MitoHealth Publications 31st January 2011

No	Publication	Partner
	<p><b>Systemic Markers of Interferon-<math>\gamma</math>-Mediated Immune Activation and Long-Term Prognosis in Patients With Stable Coronary Artery Disease.</b> Pedersen ER, Midttun O, Ueland PM, Schartum-Hansen H, Seifert R, Iglund J, Nordrehaug JE, Ebbing M, Svingen G, Bleie O, Berge R, Nygård O. <i>Arterioscler Thromb Vasc Biol.</i> 2011 Mar;31(3):698-704. E</p>	P1-UiB P6-UiB
	<p><b>Tetradecylthioacetic acid increases hepatic mitochondrial <math>\beta</math>-oxidation and alters fatty acid composition in a mouse model of chronic inflammation.</b> Burri L, Bjørndal B, Wergedahl H, Berge K, Bohov P, Svardal A, Berge RK. <i>Lipids.</i> 2011 Aug;46(8):679-89. Epub 2011 Apr 9. PMID: 21479675</p>	P1-UiB
	<p><b>Dietary supplementation of krill oil attenuates inflammation and oxidative stress in experimental ulcerative colitis in rats.</b> Grimstad T, Bjørndal B, Cacabelos D, Aasprong OG, Janssen EA, Omdal R, Svardal A, Hausken T, Bohov P, Portero-Otin M, Pamplona R, Berge RK. <i>Scand J Gastroenterol</i>, in press</p>	P1-UiB
	<p><b>Differential effects of krill oil and fish oil on the hepatic transcriptome in mice.</b> Burri L, Berge K, Wibrand K, Berge RK, Barger JL <i>Front Genet.</i> 2011;2:45.</p>	P1-UiB
	<p><b>Disruption of the acyl-CoA binding protein results in delayed hepatic adaptation to the metabolic changes at weaning.</b> D. Neess*, M. Bloksgaard*, S. Bek, A.-B. Marcher, I.C. Elle, T. Helledie, M. Due, V. Pagmantidis, B. Finsen, J. Wilbertz, M. Kruhøffer, N. Færgeman, S. Mandrup (2011) <i>J. Biol. Chem.</i> 286, 3460-3472. (*equal contribution)</p>	P3-SDU
	<p><b>ChREBP mediates glucose-repression of PPAR<math>\alpha</math> expression in pancreatic <math>\beta</math>-cells.</b> M. Børgesen*, L.L.C. Poulsen*, S. F. Schmidt, F. Frigerio, P. Maechler, S. Mandrup (2011) <i>J. Biol. Chem.</i> 286, 13214-13225 (*equal contribution).</p>	P3-SDU
	<p><b>Molecular basis for gene-specific transactivation by nuclear receptors.</b> M. M. Aagaard, R. Siersbæk, S. Mandrup (2011) <i>BBA-Molecular Basis of Disease</i> 1812, 824-35.</p>	P3-SDU
	<p><b>Cardioprotective effect of the PPAR ligand tetradecylthioacetic acid in type 2 diabetic mice.</b> Khalid AM, Hafstad AD, Larsen TS, Severson DL, Boardman N, Hagve M, Berge RK, Aasum E., <i>Am J Physiol Heart Circ Physiol.</i> 2011 Jun;300(6):H2116-22</p>	P1-UiB
	<p><b>Dietary supplementation of herring roe and milt enhances hepatic fatty acid catabolism in female mice transgenic for hTNF<math>\alpha</math>.</b> Bjørndal B, Burri L, Wergedahl H, Svardal A, Bohov P, Berge RK <i>Eur J Nutr.</i> 2011 Oct 11.</p>	P1-UiB
	<p><b>Different adipose depots: their role in the development of metabolic</b></p>	P1-UiB

	<b>syndrome and mitochondrial response to hypolipidemic agents.</b> Bjørndal B, Burri L, Staalesen V, Skorve J, Berge RK. <i>J Obes.</i> 2011;2011:490650.	
	<b>Salmon diet in patients with active ulcerative colitis reduced the simple clinical colitis activity index and increased the anti-inflammatory fatty acid index--a pilot study.</b> Grimstad T, Berge RK, Bohov P, Skorve J, Gøransson L, Omdal R, Aasprong OG, Haugen M, Meltzer HM, Hausken T. <i>Scand J Clin Lab Invest.</i> 2011 Feb;71(1):68-73	P1-UiB
	<b>Fatty acid composition in chronic heart failure: low circulating levels of eicosatetraenoic acid and high levels of vaccenic acid are associated with disease severity and mortality.</b> Øie E, Ueland T, Dahl CP, Bohov P, Berge C, Yndestad A, Gullestad L, Aukrust P, Berge RK. <i>J Intern Med.</i> 2011 Sep;270(3):263-72. doi: 10.1111/j.1365-2796.2011.02384.x.	P1-UiB
	<b>Krill oil attenuates left ventricular dilatation after myocardial infarction in rats.</b> Fosshaug LE, Berge RK, Beitnes JO, Berge K, Vik H, Aukrust P, Gullestad L, Vinge LE, Oie E <i>Lipids Health Dis.</i> 2011 Dec 29;10(1):245.	P1-UiB
	<b>Extensive chromatin remodeling and establishment of transcription factor 'hotspots' during early adipogenesis.</b> R. Siersbæk, R. Nielsen, S. John, M.-H. Sung, S. Baek, A. Loft, G. L. Hager <sup>✉</sup> , S. Mandrup <sup>✉</sup> (2011) <i>EMBO J</i> 30, 1459-72	P3-SDU
	<b>Mice with targeted disruption of the Acyl-CoA-binding protein display impaired urine concentrating ability and diminished renal aquaporin 3 abundance.</b> S. Langaa, M. Bloksgaard, S. Bek, D. Neess, P. R. Nørregaard, P.B.L. Hansen <sup>1</sup> , A.-B. Marcher, J. Frøkjær, S. Mandrup <sup>✉</sup> , B. L Jensen. <i>Am. J. Physiol. Renal Physiol., in press.</i> (✉ corresponding author)	P3-SDU
	<b>Peroxisomal multifunctional enzyme type 2 from fruit fly: dehydrogenase and hydratase act as separate entities as revealed by structure and kinetics.</b> Haataja, T.J.K., Koski, M.K., Hiltunen, J.K. & Glumoff, T. (2011) <i>Biochem J.</i> 435, 771-781	P4-Oulu
	<b>Apicoplast and endoplasmic reticulum cooperate in fatty acid biosynthesis in the apicomplexan parasite <i>Toxoplasma gondii</i>.</b> Ramakrishnan, S., Docampo, M.D., MacRae, J.I., Pujol, F.M., Brooks, C.F., vanDooren, G.G., Hiltunen, J.K., Kastaniotis, A.J., McConville, M. & Striepen, B (2011) <i>J. Biol. Chem.</i> doi:10.1074/jbc.M111.310144	P4-Oulu
	<b>Protein phosphorylation – a study on fermentative and respiratory growth of <i>Saccharomyces cerevisiae</i>.</b> Ohlmeier, S., Hiltunen, J.K. & Bergmann, U. (2010) <i>Electrophoresis.</i> 31, 2869-2881	P4-Oulu
	<b>Mitochondrial fatty acid synthesis and respiration</b> Hiltunen, J. K., Autio, K. J., Schonauer, M. S., Kursu, V. A. S., Dieckmann, C. L., & Kastaniotis, A.J. (2010) . <i>BBA-Bioenergetics</i> , 1797, 1195-1202	P4-Oulu
	<b>Mitochondrial fatty acid synthesis –an adopted set of enzymes making a pathway of major importance for cellular metabolism.</b>	P4-Oulu

	Hiltunen, J.K., Chen, Z., Haapalainen, A.M., Wierenga, R.K. & Kastaniotis, A.J. (2010) <i>Prog. Lipid Res.</i> 49, 27-45	
	<b>PPAR<math>\delta</math> is a fatty acid sensor, which activates mitochondrial oxidation and protects insulin secreting cells against lipotoxicity.</b> K. Ravnskjaer, F. Frigerio*, M. Børgesen*, T. Nielsen, P. Maechler, S. Mandrup (2010) <i>J. Lipid Res.</i> 51, 1370–1379. (* equal contribution)	P3-SDU
	<b>A novel intronic peroxisome proliferator-activated receptor enhancer in the uncoupling protein (UCP) 3 gene as a regulator of both UCP2 and -3 expression in adipocytes.</b> A. Bugge*, M. Siersbæk*, M. S. Madsen, A. Göndör, C. Rougier, S.Mandrup (2010) <i>J. Biol. Chem.</i> 285, 17310-17317. (*equal contribution)	P3-SDU
	<b>Disruption of the acyl-CoA binding protein results in delayed hepatic adaptation to the metabolic changes at weaning.</b> D. Neess*, M. Bloksgaard*, S. Bek, A.-B. Marcher, I.C. Elle, T. Helledie, M. Due, V. Pagmantidis, B. Finsen, J. Wilbertz, M. Kruhøffer, N. Færgeman, S. Mandrup (2011) <i>J. Biol. Chem.</i> , in press (*equal contribution)	P3-SDU
9	<b>Proteomics and the dynamic plasma membrane: Quo Vadis?</b> Sprenger RR, Jensen ON. <i>Proteomics.</i> 2010 Nov;10(22):3997-4011. doi: 10.1002/pmic.201000312.	P7-SDU
7	<b>Phosphoproteome analysis of functional mitochondria isolated from resting human muscle reveals extensive phosphorylation of inner membrane protein complexes and enzymes.</b> Zhao X, Leon IR, Bak S, Mogensen M, Wrzesinski K, Hojlund K, Jensen ON. <i>Mol Cell Proteomics.</i> 2010 Sep 10.	P7-SDU
	<b>Optimized IMAC-IMAC protocol for phosphopeptide recovery from complex biological samples.</b> Ye J, Zhang X, Young C, Zhao X, Hao Q, Cheng L, Jensen ON. <i>J Proteome Res.</i> 2010 Jul 2;9(7):3561-73.	P7-SDU
	<b>Repression of the PPAR<math>\alpha</math> promoter by glucose in pancreatic <math>\beta</math>-cells is mediated by ChREBP.</b> M. Børgesen*, L.L.C. Poulsen*, S. F. Schmidt, F. Frigerio, P. Maechler, S. Mandrup. Resubmitted to <i>J. Biol. Chem.</i> following revision (*equal contribution)	P3-SDU
	<b>The acyl coenzyme A binding protein is required for epidermal barrier function in mice.</b> M. Bloksgaard, S. Bek, D. Neess, H. K. Hannibal-Bach, J. Brewer, C. Ejsing, J. Chemnitz, M. Murholm, M. Due, C. Fenger, T. Helledie, A. Clemmensen, K. E. Andersen, B. Finsen, J. Wilbertz, H. Saxtorph, J. Knudsen, L. Bagatolli, S. Mandrup. Submitted to <i>J. Lipid Res.</i>	P3-SDU
	<b>The Role of PPAR<math>\alpha</math> Activation in Liver and Muscle.</b> <i>PPAR Res.</i> 2010; Burri L, Thoresen GH, Berge RK. 2010. pii: 542359.	P1-UiB
	<b>Different Adipose Depots: Their Role in the Development of Metabolic Syndrome and Mitochondrial Response to Hypolipidemic Agents.</b> B.Bjørndal, L.Burri, V.Staalesen, J.Skorve and R K. Berge; <i>Journal of Obesity</i> , 2011,	P1-UiB
	<b>Tetradecylthioacetic acid alters lipid metabolism and fatty acid composition in a mouse model for chronic inflammation.</b>	P1-UiB

	L. Burri, B.Bjørndal, H. Wergedahl, K.Berge, A. Svardal, and R.K. Berge. <i>Lipids</i> ,2011	
	<b>Systemic Markers of Interferon-<math>\gamma</math>-Mediated Immune Activation and Long-Term Prognosis in Patients With Stable Coronary Artery Disease.</b> Pedersen ER, Midttun O, Ueland PM, Schartum-Hansen H, Seifert R, Igland J, Nordrehaug JE, Ebbing M, Svingen G, Bleie O, Berge R, Nygård O. <i>Arterioscler Thromb Vasc Biol.</i> 2010 Dec 23. [Epub ahead of print]. PMID: 21183733.	P6-UiB P1-UiB
	<b>The effect of omega-3 intake on mortality and cardiovascular events in patients after coronary angiography. A WENBIT sub-study.</b> Manger M, Elin Strand, Grethe S Tell, Christian Drevon, Ebbing M, Bleie Ø, Ueland PM, Nordrehaug JE, Nilsen D, Vollset SE, W Refsum H, Pedersen ER, and Nygård, O. <i>Am J Clin Nutr</i> 2010 Jul;92(1):244-51.	P6-Ui B
	<b>Combination of fish oil and fish protein hydrolysate reduces the plasma cholesterol level with a concurrent increase in hepatic cholesterol level in high-fat-fed Wistar rats.</b> H. Wergedahl, O.A. Gudbrandsen, T.H. Røst & R.K. Berge (2009) <i>Nutrition</i> 25, 98-104	P1-UiB
	<b>Fatty acid incubation of myotubes from humans with type 2 diabetes leads to enhanced release of beta-oxidation products because of impaired fatty acid oxidation: effects of tetradecylthioacetic acid and eicosapentaenoic acid.</b> A.J. Wensaas, A.C. Rustan, M. Just, R.K. Berge, C.A. Drevon & M. Gaster (2009) <i>Diabetes.</i> 58,527-535	P1-UiB
	<b>Peroxisome proliferator activated receptor alpha is a functional target of p63 in adult human keratinocytes.</b> S. Pozzi, M. Børgesen, Satrajit Sinha, S. Mandrup & R. Mantovani (2009) <i>J. Invest. Dermatology</i> , 129, 2376-2385	P3-SDU
	<b>Gaucher disease: a model disorder for biomarker discovery'</b> R.G. Boot, M.J. van Breemen, W. Wegdam, R.R. Sprenger, S. de Jong, D. Speijer, C.E. Hollak, L. van Dussen, H.C., Hoefsloot A.K. Smilde, C.G. de Koster, J.P. Vissers & J.M.Aerts (2009) <i>Expert Rev. Proteomics</i> 6, 411-419	P7-SDU
	<b>Mitochondrial FAS type II – more than just fatty acids.</b> J.K. Hiltunen, M. Schonauer, K. J. Autio, T.M. Mittelmeier, A J. Kastaniotis & C. L.Dieckmann, (2009) <i>J. Biol. Chem</i> , 284, 9011-9015	P4-Oulu
	<b>Mitochondrial fatty acid synthesis –an adopted set of enzymes making a pathway of major importance for cellular metabolism.</b> J.K. Hiltunen, Z. Chen, A.M. Haapalainen, R.K. Wierenga, & A.J. Kastaniotis (2009) <i>Prog. Lipid Res.</i> doi:10.1016/j.plipres.2009.08.001	P4-Oulu
	<b>Mitochondrial 2,4-dienoyl-CoA reductase-deficiency in mice results in severe hypoglycaemia with stress intolerance and unimpaired ketogenesis.</b> I.J. Miinalainen, W. Schmitz,. R. Soininen, K.J. Autio, A. Huotari, E. Ver Loren van Themaat, M. Baes, K.-H. Herzig,. E. Conzelmann & J.K. Hiltunen (2009) <i>Plos Genetics</i> , 5, e1000543	P4-Oulu
	<b>Overexpression of 2-enoyl thioester reductase of mitochondrial FAS II in</b>	P4-Oulu

	<b>myocardial leads to cardiac dysfunction in mouse.</b> Z.-J. Chen, H. Leskinen, E. Liimatta, R.T. Sormunen, I. J. Miinalainen, I. E. Hassinen, & J.K. Hiltunen (2009) Plos One, 4, e5589	
	<b>Heteromeric (17<math>\beta</math>-HSD8)2(CBR4)2 is the ketoacyl reductase (KAR) of mitochondrial FAS in human.</b> Z.-J. Chen, A. J. Kastaniotis, I. J. Miinalainen, V. Rajaram, R. K. Wierenga, & J. K., Hiltunen (2009) FASEB J, 23, 3682-3691	P4-Oulu
	<b>Crystal structure of 2-enoyl thioester reductase of human FAS II: new insight into substrate binding and catalysis.</b> Z.-J. Chen, R. Pudas, S. Sharma, O.S Smart, A.H. Juffer, J.K Hiltunen, R.K. Wierenga, & A.M. Haapalainen, (2008) J. Mol. Biol, 379, 830-844	P4-Oulu
	<b>An ancient genetic link between vertebrate mitochondrial fatty acid synthesis and RNA processing.</b> K.J. Autio, A.J. Kastaniotis, H. Pospiech, I.J. Miinalainen, M.S. Schonauer, C.L. Dieckmann & J.K. Hiltunen (2008) FASEB J, 22, 569-578	P4-Oulu
	<b>Chronic dynamic exercise increases apolipoprotein a-i expression in rabbit renal cortex as determined by proteomic technology.</b> R. de Moraes, R.H. Valente, I.R. León, M.R.O. Trugilho, A.C.L. Nóbrega, J. Perales & E.Tibiricá. (2008) British Journal of Sport Medicine; 42(5):386-8.	P7-SDU
	<b>Assessing CMT Cell Line Stability by Two Dimensional Polyacrylamide Gel Electrophoresis and Mass Spectrometry Based Proteome Analysis</b> K. Zhang, K. Wrzesinski, S. J. Fey, P. Mose Larsen, X. Zhang, P. Roepstorff. (2008) J.Proteomics. 21; 71(2):160-167.	P7-SDU
	<b>The Nudix hydrolase 7 is an acyl-CoA diphosphatase involved in regulating peroxisomal coenzyme A homeostasis.</b> S.-J. Reilly, V. Tillander, R. Ofman, S.E.H. Alexson & M.C. Hunt (2008) J. Biochem. 144:655-663.	P5-KI
	<b>Dietary single cell protein reduces fatty liver in obese Zucker rats.</b> O.A. Gudbrandsen, H. Wergedahl, B. Liasset, M. Espe, S. Mørk & R.K. Berge (2008) Br. J. Nutr. 100:776-785	P1-UIB
	<b>Intersection of RNA Processing and the Type II Fatty Acid Synthesis Pathway in Yeast Mitochondria.</b> M. S. Schonauer, A.J. Kastaniotis, J.K. Hiltunen & Dieckmann, C. L. (2008) Mol. Cell. Biol. 28, 6646-6657	P4-Oulu
	<b>3- Hydroxyacyl-ACP dehydratase of mitochondrial fatty acid synthesis in Trypanosoma brucei.</b> K.J. Autio, J.L Guler, A.J. Kastaniotis, P.T. Englund & J.K. Hiltunen (2008) FEBS Lett, 582, 729-733	P4-Oulu