Lise Madsen

List of Publications by Year
in descending order

109 papers	13,415 citations	50276 46 h-index	24258 110 g-index
112 all docs	112 docs citations	112 times ranked	19864 citing authors

#	Article	IF	Citations
1	Dynamics and Stabilization of the Human Gut Microbiome during the First Year of Life. Cell Host and Microbe, 2015, 17, 690-703.	11.0	2,276
2	Gut microbiome and serum metabolome alterations in obesity and after weight-loss intervention. Nature Medicine, 2017, 23, 859-868.	30.7	1,074
3	The gut microbiome in atherosclerotic cardiovascular disease. Nature Communications, 2017, 8, 845.	12.8	1,029
4	Metagenomic analysis of faecal microbiome as a tool towards targeted non-invasive biomarkers for colorectal cancer. Gut, 2017, 66, 70-78.	12.1	865
5	The microbiota continuum along the female reproductive tract and its relation to uterine-related diseases. Nature Communications, 2017, 8, 875.	12.8	572
6	Peroxisome Proliferator-activated Receptor Î± Activators Improve Insulin Sensitivity and Reduce Adiposity. Journal of Biological Chemistry, 2000, 275, 16638-16642.	3.4	554
7	A catalog of the mouse gut metagenome. Nature Biotechnology, 2015, 33, 1103-1108.	17.5	422
8	A reference gene catalogue of the pig gut microbiome. Nature Microbiology, 2016, 1, 16161.	13.3	416
9	Persistent Organic Pollutant Exposure Leads to Insulin Resistance Syndrome. Environmental Health Perspectives, 2010, 118, 465-471.	6.0	326
10	Analyses of gut microbiota and plasma bile acids enable stratification of patients for antidiabetic treatment. Nature Communications, 2017, 8, 1785.	12.8	312
11	Microarray Analyses during Adipogenesis: Understanding the Effects of Wnt Signaling on Adipogenesis and the Roles of Liver X Receptor Î± in Adipocyte Metabolism. Molecular and Cellular Biology, 2002, 22, 5989-5999.	2.3	227
12	Regulation of adipocyte differentiation and function by polyunsaturated fatty acids. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2005, 1740, 266-286.	3.8	218
13	Dietary Linoleic Acid Elevates Endogenous 2â€AG and Anandamide and Induces Obesity. Obesity, 2012, 20, 1984-1994.	3.0	200
14	Chronic Trichuris muris Infection Decreases Diversity of the Intestinal Microbiota and Concomitantly Increases the Abundance of Lactobacilli. PLoS ONE, 2015, 10, e0125495.	2.5	190
15	UCP1 Induction during Recruitment of Brown Adipocytes in White Adipose Tissue Is Dependent on Cyclooxygenase Activity. PLoS ONE, 2010, 5, e11391.	2.5	174
16	Interplay between food and gut microbiota in health and disease. Food Research International, 2019, 115, 23-31.	6.2	168
17	Eicosapentaenoic and docosahexaenoic acid affect mitochondrial and peroxisomal fatty acid oxidation in relation to substrate preference. Lipids, 1999, 34, 951-963.	1.7	160
18	Cyclic AMP (cAMP)-Mediated Stimulation of Adipocyte Differentiation Requires the Synergistic Action of Epac- and cAMP-Dependent Protein Kinase-Dependent Processes. Molecular and Cellular Biology, 2008, 28, 3804-3816.	2.3	136

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19	Chronic Consumption of Farmed Salmon Containing Persistent Organic Pollutants Causes Insulin Resistance and Obesity in Mice. PLoS ONE, 2011, 6, e25170.	2.5	133
20	High-fat feeding rather than obesity drives taxonomical and functional changes in the gut microbiota in mice. Microbiome, 2017, 5, 43.	11.1	132
21	Adipocyte differentiation of 3T3-L1 preadipocytes is dependent on lipoxygenase activity during the initial stages of the differentiation process. Biochemical Journal, 2003, 375, 539-549.	3.7	118
22	Transcriptome profiling of brown adipose tissue during cold exposure reveals extensive regulation of glucose metabolism. American Journal of Physiology - Endocrinology and Metabolism, 2015, 308, E380-E392.	3.5	105
23	Fish protein hydrolysate elevates plasma bile acids and reduces visceral adipose tissue mass in rats. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2009, 1791, 254-262.	2.4	98
24	Circulating FGF21 in humans is potently induced by short term overfeeding of carbohydrates. Molecular Metabolism, 2017, 6, 22-29.	6.5	95
25	Links between Dietary Protein Sources, the Gut Microbiota, and Obesity. Frontiers in Physiology, 2017, 8, 1047.	2.8	83
26	Lower levels of Persistent Organic Pollutants, metals and the marine omega 3-fatty acid DHA in farmed compared to wild Atlantic salmon (Salmo salar). Environmental Research, 2017, 155, 49-59.	7.5	76
27	Two distinct metacommunities characterize the gut microbiota in Crohn's disease patients. GigaScience, 2017, 6, 1-11.	6.4	75
28	All-Trans Retinoic Acid Increases Oxidative Metabolism in Mature Adipocytes. Cellular Physiology and Biochemistry, 2007, 20, 1061-1072.	1.6	72
29	cAMP-dependent Signaling Regulates the Adipogenic Effect of n-6 Polyunsaturated Fatty Acids. Journal of Biological Chemistry, 2008, 283, 7196-7205.	3.4	72
30	Dietary Linoleic Acid Elevates the Endocannabinoids 2â€AG and Anandamide and Promotes Weight Gain in Mice Fed a Low Fat Diet. Lipids, 2014, 49, 59-69.	1.7	70
31	The metagenome of the female upper reproductive tract. GigaScience, 2018, 7, .	6.4	68
32	Carnitine palmitoyltransferase I, carnitine palmitoyltransferase II, and Acyl-CoA oxidase activities in atlantic salmon (Salmo salar). Lipids, 1998, 33, 923-930.	1.7	66
33	Dietary linoleic acid elevates endogenous 2-arachidonoylglycerol and anandamide in Atlantic salmon (Salmo salarL.) and mice, and induces weight gain and inflammation in mice. British Journal of Nutrition, 2013, 109, 1508-1517.	2.3	66
34	Effects of geography and species variation on selenium and mercury molar ratios in Northeast Atlantic marine fish communities. Science of the Total Environment, 2019, 652, 1482-1496.	8.0	65
35	Arachidonic acid-dependent inhibition of adipocyte differentiation requires PKA activity and is associated with sustained expression of cyclooxygenases. Journal of Lipid Research, 2003, 44, 2320-2330.	4.2	61
36	Contaminant levels in Norwegian farmed Atlantic salmon (Salmo salar) in the 13-year period from 1999 to 2011. Environment International, 2015, 74, 274-280.	10.0	61

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37	Tetradecylthioacetic acid inhibits growth of rat glioma cells ex vivo and in vivo via PPAR-dependent and PPAR-independent pathways. Carcinogenesis, 2001, 22, 1747-1755.	2.8	59
38	The protein source determines the potential of high protein diets to attenuate obesity development in C57BL/6J mice. Adipocyte, 2016, 5, 196-211.	2.8	59
39	The tumor suppressors pRB and p53 as regulators of adipocyte differentiation and function. Expert Opinion on Therapeutic Targets, 2009, 13, 235-246.	3.4	56
40	Nutritional Regulation of Bile Acid Metabolism Is Associated with Improved Pathological Characteristics of the Metabolic Syndrome. Journal of Biological Chemistry, 2011, 286, 28382-28395.	3.4	55
41	Effect of a long-term high-protein diet on survival, obesity development, and gut microbiota in mice. American Journal of Physiology - Endocrinology and Metabolism, 2016, 310, E886-E899.	3.5	55
42	Proliferation of mitochondria and gene expression of carnitine palmitoyltransferase and fatty acyl-CoA oxidase in rat skeletal muscle, heart and liver by hypolipidemic fatty acids. Biology of the Cell, 2000, 92, 317-329.	2.0	53
43	Establishment of a Macaca fascicularis gut microbiome gene catalog and comparison with the human, pig, and mouse gut microbiomes. GigaScience, 2018, 7, .	6.4	53
44	Hydrolyzed Casein Reduces Diet-Induced Obesity in Male C57BL/6J Mice. Journal of Nutrition, 2013, 143, 1367-1375.	2.9	50
45	Mechanisms Preserving Insulin Action during High Dietary Fat Intake. Cell Metabolism, 2019, 29, 50-63.e4.	16.2	50
46	Lipidomic profiling reveals distinct differences in plasma lipid composition in healthy, prediabetic, and type 2 diabetic individuals. GigaScience, 2017, 6, 1-12.	6.4	49
47	In contrast with docosahexaenoic acid, eicosapentaenoic acid and hypolipidaemic derivatives decrease hepatic synthesis and secretion of triacylglycerol by decreased diacylglycerol acyltransferase activity and stimulation of fatty acid oxidation. Biochemical Journal, 1999, 343, 191.	3.7	47
48	Sucrose Counteracts the Anti-Inflammatory Effect of Fish Oil in Adipose Tissue and Increases Obesity Development in Mice. PLoS ONE, 2011, 6, e21647.	2.5	47
49	Opposite Regulation of Insulin Sensitivity by Dietary Lipid Versus Carbohydrate Excess. Diabetes, 2017, 66, 2583-2595.	0.6	46
50	The importance of dietary modulation of cAMP and insulin signaling in adipose tissue and the development of obesity. Annals of the New York Academy of Sciences, 2010, 1190, 1-14.	3.8	45
51	Epidermis-Type Lipoxygenase 3 Regulates Adipocyte Differentiation and Peroxisome Proliferator-Activated Receptor Î³ Activity. Molecular and Cellular Biology, 2010, 30, 4077-4091.	2.3	45
52	CRISPR/Cascade 9-Mediated Genome Editing-Challenges and Opportunities. Frontiers in Genetics, 2018, 9, 240.	2.3	45
53	A comparative analysis of the intestinal metagenomes present in guinea pigs (Cavia porcellus) and humans (Homo sapiens). BMC Genomics, 2012, 13, 514.	2.8	43
54	Urinary Loss of Tricarboxylic Acid Cycle Intermediates As Revealed by Metabolomics Studies: An Underlying Mechanism to Reduce Lipid Accretion by Whey Protein Ingestion?. Journal of Proteome Research, 2014, 13, 2560-2570.	3.7	42

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55	Haploinsufficiency of the retinoblastoma protein gene reduces diet-induced obesity, insulin resistance, and hepatosteatosis in mice. American Journal of Physiology - Endocrinology and Metabolism, 2009, 297, E184-E193.	3.5	41
56	Scallop protein with endogenous high taurine and glycine content prevents high-fat, high-sucrose-induced obesity and improves plasma lipid profile in male C57BL/6J mice. Amino Acids, 2014, 46, 1659-1671.	2.7	41
57	FFAR4 (GPR120) Signaling Is Not Required for Anti-Inflammatory and Insulin-Sensitizing Effects of Omega-3 Fatty Acids. Mediators of Inflammation, 2016, 2016, 1-12.	3.0	40
58	Dietary eicosapentaenoic acid supplementation accentuates hepatic triglyceride accumulation in mice with impaired fatty acid oxidation capacity. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2013, 1831, 291-299.	2.4	39
59	High-glycemic index carbohydrates abrogate the antiobesity effect of fish oil in mice. American Journal of Physiology - Endocrinology and Metabolism, 2012, 302, E1097-E1112.	3.5	37
60	Intake of Farmed Atlantic Salmon Fed Soybean Oil Increases Insulin Resistance and Hepatic Lipid Accumulation in Mice. PLoS ONE, 2013, 8, e53094.	2.5	37
61	Impact of mitochondrial Î²-oxidation in fatty acid-mediated inhibition of glioma cell proliferation. Journal of Lipid Research, 2003, 44, 118-127.	4.2	36
62	Dynamic Regulation of Genes Involved in Mitochondrial DNA Replication and Transcription during Mouse Brown Fat Cell Differentiation and Recruitment. PLoS ONE, 2009, 4, e8458.	2.5	36
63	Visualization and Quantification of Browning Using a Ucp1-2A-Luciferase Knock-in Mouse Model. Diabetes, 2017, 66, 407-417.	0.6	35
64	A catalog of microbial genes from the bovine rumen unveils a specialized and diverse biomass-degrading environment. GigaScience, 2020, 9, .	6.4	35
65	Obesity is associated with depot-specific alterations in adipocyte DNA methylation and gene expression. Adipocyte, 2017, 6, 124-133.	2.8	34
66	Indomethacin Treatment Prevents High Fat Diet-induced Obesity and Insulin Resistance but Not Glucose Intolerance in C57BL/6J Mice. Journal of Biological Chemistry, 2014, 289, 16032-16045.	3.4	33
67	Oceans and Human Health (OHH): a European Perspective from the Marine Board of the European Science Foundation (Marine Board-ESF). Microbial Ecology, 2013, 65, 889-900.	2.8	32
68	Intake of a Western diet containing cod instead of pork alters fatty acid composition in tissue phospholipids and attenuates obesity and hepatic lipid accumulation in mice. Journal of Nutritional Biochemistry, 2016, 33, 119-127.	4.2	32
69	Diet-induced obesity, energy metabolism and gut microbiota in C57BL/6J mice fed Western diets based on lean seafood or lean meat mixtures. Journal of Nutritional Biochemistry, 2016, 31, 127-136.	4.2	32
70	The elusive endogenous adipogenic PPARÎ³ agonists: Lining up the suspects. Progress in Lipid Research, 2016, 61, 149-162.	11.6	32
71	Mitochondrial 3-hydroxy-3-methylglutaryl coenzyme A synthase and carnitine palmitoyltransferase II as potential control sites for ketogenesis during mitochondrion and peroxisome proliferation. Biochemical Pharmacology, 1999, 57, 1011-1019.	4.4	30
72	Intake of farmed Atlantic salmon fed soybean oil increases hepatic levels of arachidonic acid-derived oxylipins and ceramides in mice. Journal of Nutritional Biochemistry, 2015, 26, 585-595.	4.2	30

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73	ERRÎ³ enhances UCP1 expression and fatty acid oxidation in brown adipocytes. Obesity, 2013, 21, 516-524.	3.0	29
74	Factors influencing risk assessments of brominated flame-retardants; evidence based on seafood from the North East Atlantic Ocean. Environment International, 2018, 119, 544-557.	10.0	28
75	Depot-Dependent Effects of Adipose Tissue Explants on Co-Cultured Hepatocytes. PLoS ONE, 2011, 6, e20917.	2.5	27
76	Low doses of eicosapentaenoic acid, docosahexaenoic acid, and hypolipidemic eicosapentaenoic acid derivatives have no effect on lipid peroxidation in plasma. Lipids, 1998, 33, 1131-1137.	1.7	26
77	p53 regulates expression of uncoupling protein 1 through binding and repression of PPARÎ³ coactivator-1Î±. American Journal of Physiology - Endocrinology and Metabolism, 2016, 310, E116-E128.	3.5	26
78	Iodine Status and Thyroid Function in a Group of Seaweed Consumers in Norway. Nutrients, 2020, 12, 3483.	4.1	26
79	Î²-oxidation modulates metabolic competition between eicosapentaenoic acid and arachidonic acid regulating prostaglandin E2 synthesis in rat hepatocytesâ€“Kupffer cells. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2010, 1801, 526-536.	2.4	25
80	Glucose-induced lipogenesis in pancreatic Î²-cells is dependent on SREBP-1. Molecular and Cellular Endocrinology, 2005, 240, 94-106.	3.2	23
81	Dietary fat drives whole-body insulin resistance and promotes intestinal inflammation independent of body weight gain. Metabolism: Clinical and Experimental, 2016, 65, 1706-1719.	3.4	22
82	ADD1/SREBP1c activates the PGC1-Î± promoter in brown adipocytes. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2010, 1801, 421-429.	2.4	20
83	Early modulation of genes encoding peroxisomal and mitochondrial Î²-oxidation enzymes by 3-thia fatty acids. Biochemical Pharmacology, 1998, 56, 1571-1582.	4.4	19
84	PPARÎ³ ligand production is tightly linked to clonal expansion during initiation of adipocyte differentiation. Journal of Lipid Research, 2014, 55, 2491-2500.	4.2	19
85	Lean Seafood Intake Reduces Postprandial C-peptide and Lactate Concentrations in Healthy Adults in a Randomized Controlled Trial with a Crossover Design. Journal of Nutrition, 2016, 146, 1027-1034.	2.9	19
86	A safflower oil based highâ€fat/highâ€sucrose diet modulates the gut microbiota and liver phospholipid profiles associated with early glucose intolerance in the absence of tissue inflammation. Molecular Nutrition and Food Research, 2017, 61, 1600528.	3.3	19
87	Growth reduction in glioma cells after treatment with tetradecylthioacetic acid: changes in fatty acid metabolism and oxidative status. Biochemical Pharmacology, 2001, 61, 639-649.	4.4	18
88	3-thia fatty acid treatment, in contrast to eicosapentaenoic acid and starvation, induces gene expression of carnitine palmitoyltransferase-II in rat liver. Lipids, 1999, 34, 447-456.	1.7	17
89	Multi-block PCA and multi-compartmental study of the metabolic responses to intake of hydrolysed versus intact casein in C57BL/6J mice by NMR-based metabolomics. Metabolomics, 2014, 10, 938-949.	3.0	14
90	Marine fatty acids aggravate hepatotoxicity of Î±-HBCD in juvenile female BALB/c mice. Food and Chemical Toxicology, 2016, 97, 411-423.	3.6	14

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91	Macronutrient composition determines accumulation of persistent organic pollutants from dietary exposure in adipose tissue of mice. Journal of Nutritional Biochemistry, 2016, 27, 307-316.	4.2	14
92	The Impact of Different Animal-Derived Protein Sources on Adiposity and Glucose Homeostasis during Ad Libitum Feeding and Energy Restriction in Already Obese Mice. Nutrients, 2019, 11, 1153.	4.1	14
93	An Expanded Gene Catalog of Mouse Gut Metagenomes. MSphere, 2021, 6, .	2.9	13
94	Dietary Proteins, Brown Fat, and Adiposity. Frontiers in Physiology, 2018, 9, 1792.	2.8	11
95	Methylated eicosapentaenoic acid and tetradecylthioacetic acid: effects on fatty acid metabolism. Biochemical Pharmacology, 1999, 58, 1133-1143.	4.4	10
96	Intake of Hydrolyzed Casein is Associated with Reduced Body Fat Accretion and Enhanced Phase II Metabolism in Obesity Prone C57BL/6J Mice. PLoS ONE, 2015, 10, e0118895.	2.5	10
97	Subchronic dietary exposure to ethoxyquin dimer induces microvesicular steatosis in male BALB/c mice. Food and Chemical Toxicology, 2018, 118, 608-625.	3.6	9
98	Tissue Inhibitor Of Matrix Metalloproteinase-1 Is Required for High-Fat Diet-Induced Glucose Intolerance and Hepatic Steatosis in Mice. PLoS ONE, 2015, 10, e0132910.	2.5	9
99	Fatty fish, hair mercury and cognitive function in Norwegian preschool children: Results from the randomized controlled trial FINS-KIDS. Environment International, 2018, 121, 1098-1105.	10.0	8
100	Dietary intake and adipose tissue content of long-chain nâ€“3 PUFAs and subsequent 5-y change in body weight and waist circumference. American Journal of Clinical Nutrition, 2017, 105, 1148-1157.	4.7	7
101	Effects of Frozen Storage on Phospholipid Content in Atlantic Cod Fillets and the Influence on Diet-Induced Obesity in Mice. Nutrients, 2018, 10, 695.	4.1	7
102	Macronutrients and obesity: views, news and reviews. Future Lipidology, 2008, 3, 43-74.	0.5	6
103	Proteomic analysis of cAMP-mediated signaling during differentiation of 3 T3-L1 preadipocytes. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2014, 1844, 2096-2107.	2.3	6
104	Meals based on cod or veal in combination with high or low glycemic index carbohydrates did not affect diet-induced thermogenesis, appetite sensations, or subsequent energy intake differently. Appetite, 2018, 130, 199-208.	3.7	6
105	Activation of Liver X Receptors Prevents Statin-induced Death of 3T3-L1 Preadipocytes. Journal of Biological Chemistry, 2008, 283, 22723-22736.	3.4	4
106	Long Term Treatment with Tetradecylthioacetic Acid Improves the Antioxidant Status in Obese Zucker (fa/fa) Rats. Drug Metabolism Letters, 2008, 2, 138-145.	0.8	4
107	Dietary n-6 PUFA, carbohydrate:protein ratio and change in body weight and waist circumference: a follow-up study. Public Health Nutrition, 2015, 18, 1317-1323.	2.2	4
108	Salmon in Combination with High Glycemic Index Carbohydrates Increases Diet-Induced Thermogenesis Compared with Salmon with Low Glycemic Index Carbohydratesâ€“An Acute Randomized Cross-Over Meal Test Study. Nutrients, 2019, 11, 365.	4.1	3

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109	The Anti-Obesogenic Effect of Lean Fish Species Is Influenced by the Fatty Acid Composition in Fish Fillets. Nutrients, 2020, 12, 3038.	4.1	0