Martin Rossmeisl

List of Publications by Year
in descending order

53	3,431	159585 30	175258 52
papers	citations	h-index	g-index

53	53	53	5050
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Omega-3 PUFA of marine origin limit diet-induced obesity in mice by reducing cellularity of adipose tissue. Lipids, 2004, 39, 1177-1185.	1.7	268
2	Paradoxical resistance to diet-induced obesity in UCP1-deficient mice. Journal of Clinical Investigation, 2003, 111, 399-407.	8.2	267
3	Variation in Type 2 Diabetes-Related Traits in Mouse Strains Susceptible to Diet-Induced Obesity. Diabetes, 2003, 52, 1958-1966.	0.6	254
4	Cellular and molecular effects ofnâ^'3 polyunsaturated fatty acids on adipose tissue biology and metabolism. Clinical Science, 2009, 116, 1-16.	4.3	237
5	Metabolic Effects of n-3 PUFA as Phospholipids Are Superior to Triglycerides in Mice Fed a High-Fat Diet: Possible Role of Endocannabinoids. PLoS ONE, 2012, 7, e38834.	2.5	188
6	Lipid signaling in adipose tissue: Connecting inflammation & metabolism. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2015, 1851, 503-518.	2.4	183
7	Sex differences during the course of diet-induced obesity in mice: adipose tissue expandability and glycemic control. International Journal of Obesity, 2012, 36, 262-272.	3.4	140
8	n-3 Fatty acids and rosiglitazone improve insulin sensitivity through additive stimulatory effects on muscle glycogen synthesis in mice fed a high-fat diet. Diabetologia, 2009, 52, 941-951.	6.3	128
9	Stimulation of mitochondrial oxidative capacity in white fat independent of UCP1: A key to lean phenotype. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2013, 1831, 986-1003.	2.4	125
10	n-3 PUFA: bioavailability and modulation of adipose tissue function. Proceedings of the Nutrition Society, 2009, 68, 361-369.	1.0	118
11	Synergistic induction of lipid catabolism and anti-inflammatory lipids in white fat of dietary obese mice in response to calorie restriction and n-3 fatty acids. Diabetologia, 2011, 54, 2626-2638.	6.3	93
12	Metformin acutely lowers blood glucose levels by inhibition of intestinal glucose transport. Scientific Reports, 2019, 9, 6156.	3.3	78
13	Decreased fatty acid synthesis due to mitochondrial uncoupling in adipose tissue. FASEB Journal, 2000, 14, 1793-1800.	0.5	75
14	AMP-activated Protein Kinase Î±2 Subunit Is Required for the Preservation of Hepatic Insulin Sensitivity by n-3 Polyunsaturated Fatty Acids. Diabetes, 2010, 59, 2737-2746.	0.6	74
15	Omega-3 fatty acids and adipose tissue biology. Molecular Aspects of Medicine, 2018, 64, 147-160.	6.4	70
16	Omega-3 phospholipids from fish suppress hepatic steatosis by integrated inhibition of biosynthetic pathways in dietary obese mice. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2014, 1841, 267-278.	2.4	69
17	Synergistic Gene Interactions Control the Induction of the Mitochondrial Uncoupling Protein (Ucp1) Gene in White Fat Tissue. Journal of Biological Chemistry, 2000, 275, 34486-34492.	3.4	67
18	Expression of the uncoupling protein 1 from the aP2 gene promoter stimulates mitochondrial biogenesis in unilocular adipocytes in vivo. FEBS Journal, 2002, 269, 19-28.	0.2	67

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19	Induction of muscle thermogenesis by high-fat diet in mice: association with obesity-resistance. American Journal of Physiology - Endocrinology and Metabolism, 2008, 295, E356-E367.	3.5	64
20	Possible involvement of AMP-activated protein kinase in obesity resistance induced by respiratory uncoupling in white fat. FEBS Letters, 2004, 569, 245-248.	2.8	63
21	Prevention and Reversal of Obesity and Glucose Intolerance in Mice by DHA Derivatives. Obesity, 2009, 17, 1023-1031.	3.0	59
22	Preservation of Metabolic Flexibility in Skeletal Muscle by a Combined Use of n-3 PUFA and Rosiglitazone in Dietary Obese Mice. PLoS ONE, 2012, 7, e43764.	2.5	55
23	Levels of palmitic acid ester of hydroxystearic acid (PAHSA) are reduced in the breast milk of obese mothers. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2018, 1863, 126-131.	2.4	53
24	Brown fat is essential for cold-induced thermogenesis but not for obesity resistance in aP2-Ucp mice. American Journal of Physiology - Endocrinology and Metabolism, 1998, 274, E527-E533.	3.5	47
25	Unmasking Differential Effects of Rosiglitazone and Pioglitazone in the Combination Treatment with n-3 Fatty Acids in Mice Fed a High-Fat Diet. PLoS ONE, 2011, 6, e27126.	2.5	43
26	Lipokine 5-PAHSA Is Regulated by Adipose Triglyceride Lipase and Primes Adipocytes for De Novo Lipogenesis in Mice. Diabetes, 2020, 69, 300-312.	0.6	43
27	Involvement of AMP-activated protein kinase in fat depot-specific metabolic changes during starvation. FEBS Letters, 2005, 579, 6105-6110.	2.8	41
28	Augmenting energy expenditure by mitochondrial uncoupling: a role of AMP-activated protein kinase. Genes and Nutrition, 2012, 7, 369-386.	2.5	40
29	BIOCLAIMS standard diet (BIOsd): a reference diet for nutritional physiology. Genes and Nutrition, 2012, 7, 399-404.	2.5	34
30	Combined intervention with pioglitazone and n-3 fatty acids in metformin-treated type 2 diabetic patients: improvement of lipid metabolism. Nutrition and Metabolism, 2015, 12, 52.	3.0	31
31	High expression of uncoupling protein 2 in foetal liver. FEBS Letters, 1998, 425, 185-190.	2.8	29
32	Exercise training induces insulin-sensitizing PAHSAs in adipose tissue of elderly women. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2020, 1865, 158576.	2.4	27
33	Triacylglycerolâ€Rich Oils of Marine Origin are Optimal Nutrients for Induction of Polyunsaturated Docosahexaenoic Acid Ester of Hydroxy Linoleic Acid (13â€DHAHLA) with Antiâ€Inflammatory Properties in Mice. Molecular Nutrition and Food Research, 2020, 64, e1901238.	3.3	26
34	Dysregulation of epicardial adipose tissue in cachexia due to heart failure: the role of natriuretic peptides and cardiolipin. Journal of Cachexia, Sarcopenia and Muscle, 2020, 11, 1614-1627.	7.3	24
35	Krill Oil Supplementation Reduces Exacerbated Hepatic Steatosis Induced by Thermoneutral Housing in Mice with Diet-Induced Obesity. Nutrients, 2021, 13, 437.	4.1	23
36	Differential modulation of white adipose tissue endocannabinoid levels by n-3 fatty acids in obese mice and type 2 diabetic patients. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2018, 1863, 712-725.	2.4	22

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37	Corn oil versus lard: Metabolic effects of omega-3 fatty acids in mice fed obesogenic diets with different fatty acid composition. Biochimie, 2016, 124, 150-162.	2.6	21
38	Metabolomics atlas of oral 13C-glucose tolerance test in mice. Cell Reports, 2021, 37, 109833.	6.4	20
39	Triglycerideâ€lowering Effect of Respiratory Uncoupling in White Adipose Tissue. Obesity, 2005, 13, 835-844.	4.0	18
40	Adiposity and the Development of Diabetes in Mouse Genetic Models. Annals of the New York Academy of Sciences, 2002, 967, 80-87.	3.8	18
41	Omega-3 Phospholipids from Krill Oil Enhance Intestinal Fatty Acid Oxidation More Effectively than Omega-3 Triacylglycerols in High-Fat Diet-Fed Obese Mice. Nutrients, 2020, 12, 2037.	4.1	18
42	Dietary uptake of omega-3 fatty acids in mouse tissue studied by time-of-flight secondary ion mass spectrometry (TOF-SIMS). Analytical and Bioanalytical Chemistry, 2015, 407, 5101-5111.	3.7	16
43	Additive Effects of Omega-3 Fatty Acids and Thiazolidinediones in Mice Fed a High-Fat Diet: Triacylglycerol/Fatty Acid Cycling in Adipose Tissue. Nutrients, 2020, 12, 3737.	4.1	13
44	Plasma Acylcarnitines and Amino Acid Levels As an Early Complex Biomarker of Propensity to High-Fat Diet-Induced Obesity in Mice. PLoS ONE, 2016, 11, e0155776.	2.5	13
45	Reduced Number of Adipose Lineage and Endothelial Cells in Epididymal fat in Response to Omega-3 PUFA in Mice Fed High-Fat Diet. Marine Drugs, 2018, 16, 515.	4.6	12
46	Increased plasma levels of palmitoleic acid may contribute to beneficial effects of Krill oil on glucose homeostasis in dietary obese mice. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2020, 1865, 158732.	2.4	12
47	Omega-3 index in the Czech Republic: No difference between urban and rural populations. Chemistry and Physics of Lipids, 2019, 220, 23-27.	3.2	9
48	Chronic n-3 fatty acid intake enhances insulin response to oral glucose and elevates GLP-1 in high-fat diet-fed obese mice. Food and Function, 2020, 11, 9764-9775.	4.6	9
49	Omegaâ€3 phospholipids and obesityâ€associated NAFLD: Potential mechanisms and therapeutic perspectives. European Journal of Clinical Investigation, 2022, 52, e13650.	3.4	9
50	Adipose tissue-related proteins locally associated with resolution of inflammation in obese mice. International Journal of Obesity, 2014, 38, 216-223.	3.4	6
51	Postnatal induction of muscle fatty acid oxidation in mice differing in propensity to obesity: a role of pyruvate dehydrogenase. International Journal of Obesity, 2020, 44, 235-244.	3.4	6
52	Adipose tissue-specific ablation of PGC-1Î² impairs thermogenesis in brown fat. DMM Disease Models and Mechanisms, 2022, 15, .	2.4	6
53	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