

Martin Rossmeisl

List of Publications by Year in descending order

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53
papers

3,431
citations

159585
30
h-index

175258
52
g-index

53
all docs

53
docs citations

53
times ranked

5050
citing authors

#	ARTICLE	IF	CITATIONS
1	Omega-3 phospholipids and obesity-associated NAFLD: Potential mechanisms and therapeutic perspectives. <i>European Journal of Clinical Investigation</i> , 2022, 52, e13650.	3.4	9
2	Adipose tissue-specific ablation of PGC-1 β impairs thermogenesis in brown fat. <i>DMM Disease Models and Mechanisms</i> , 2022, 15, .	2.4	6
3	Krill Oil Supplementation Reduces Exacerbated Hepatic Steatosis Induced by Thermoneutral Housing in Mice with Diet-Induced Obesity. <i>Nutrients</i> , 2021, 13, 437.	4.1	23
4	Metabolomics atlas of oral 13C-glucose tolerance test in mice. <i>Cell Reports</i> , 2021, 37, 109833.	6.4	20
5	Postnatal induction of muscle fatty acid oxidation in mice differing in propensity to obesity: a role of pyruvate dehydrogenase. <i>International Journal of Obesity</i> , 2020, 44, 235-244.	3.4	6
6	Lipokine 5-PAHSA Is Regulated by Adipose Triglyceride Lipase and Primes Adipocytes for De Novo Lipogenesis in Mice. <i>Diabetes</i> , 2020, 69, 300-312.	0.6	43
7	Exercise training induces insulin-sensitizing PAHSAs in adipose tissue of elderly women. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2020, 1865, 158576.	2.4	27
8	The Anti-Obesogenic Effect of Lean Fish Species Is Influenced by the Fatty Acid Composition in Fish Fillets. <i>Nutrients</i> , 2020, 12, 3038.	4.1	0
9	Chronic n-3 fatty acid intake enhances insulin response to oral glucose and elevates GLP-1 in high-fat diet-fed obese mice. <i>Food and Function</i> , 2020, 11, 9764-9775.	4.6	9
10	Dysregulation of epicardial adipose tissue in cachexia due to heart failure: the role of natriuretic peptides and cardiopilin. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2020, 11, 1614-1627.	7.3	24
11	Additive Effects of Omega-3 Fatty Acids and Thiazolidinediones in Mice Fed a High-Fat Diet: Triacylglycerol/Fatty Acid Cycling in Adipose Tissue. <i>Nutrients</i> , 2020, 12, 3737.	4.1	13
12	Omega-3 Phospholipids from Krill Oil Enhance Intestinal Fatty Acid Oxidation More Effectively than Omega-3 Triacylglycerols in High-Fat Diet-Fed Obese Mice. <i>Nutrients</i> , 2020, 12, 2037.	4.1	18
13	Triacylglycerol-Rich Oils of Marine Origin are Optimal Nutrients for Induction of Polyunsaturated Docosahexaenoic Acid Ester of Hydroxy Linoleic Acid (13-HDLAHLA) with Anti-Inflammatory Properties in Mice. <i>Molecular Nutrition and Food Research</i> , 2020, 64, e1901238.	3.3	26
14	Increased plasma levels of palmitoleic acid may contribute to beneficial effects of Krill oil on glucose homeostasis in dietary obese mice. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2020, 1865, 158732.	2.4	12
15	Metformin acutely lowers blood glucose levels by inhibition of intestinal glucose transport. <i>Scientific Reports</i> , 2019, 9, 6156.	3.3	78
16	Omega-3 index in the Czech Republic: No difference between urban and rural populations. <i>Chemistry and Physics of Lipids</i> , 2019, 220, 23-27.	3.2	9
17	Differential modulation of white adipose tissue endocannabinoid levels by n-3 fatty acids in obese mice and type 2 diabetic patients. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2018, 1863, 712-725.	2.4	22
18	Omega-3 fatty acids and adipose tissue biology. <i>Molecular Aspects of Medicine</i> , 2018, 64, 147-160.	6.4	70

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19	Levels of palmitic acid ester of hydroxystearic acid (PAHSA) are reduced in the breast milk of obese mothers. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2018, 1863, 126-131.	2.4	53
20	Reduced Number of Adipose Lineage and Endothelial Cells in Epididymal fat in Response to Omega-3 PUFA in Mice Fed High-Fat Diet. <i>Marine Drugs</i> , 2018, 16, 515.	4.6	12
21	Corn oil versus lard: Metabolic effects of omega-3 fatty acids in mice fed obesogenic diets with different fatty acid composition. <i>Biochimie</i> , 2016, 124, 150-162.	2.6	21
22	Plasma Acylcarnitines and Amino Acid Levels As an Early Complex Biomarker of Propensity to High-Fat Diet-Induced Obesity in Mice. <i>PLoS ONE</i> , 2016, 11, e0155776.	2.5	13
23	Combined intervention with pioglitazone and n-3 fatty acids in metformin-treated type 2 diabetic patients: improvement of lipid metabolism. <i>Nutrition and Metabolism</i> , 2015, 12, 52.	3.0	31
24	Dietary uptake of omega-3 fatty acids in mouse tissue studied by time-of-flight secondary ion mass spectrometry (TOF-SIMS). <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 5101-5111.	3.7	16
25	Lipid signaling in adipose tissue: Connecting inflammation & metabolism. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2015, 1851, 503-518.	2.4	183
26	Adipose tissue-related proteins locally associated with resolution of inflammation in obese mice. <i>International Journal of Obesity</i> , 2014, 38, 216-223.	3.4	6
27	Omega-3 phospholipids from fish suppress hepatic steatosis by integrated inhibition of biosynthetic pathways in dietary obese mice. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2014, 1841, 267-278.	2.4	69
28	Stimulation of mitochondrial oxidative capacity in white fat independent of UCP1: A key to lean phenotype. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2013, 1831, 986-1003.	2.4	125
29	Metabolic Effects of n-3 PUFA as Phospholipids Are Superior to Triglycerides in Mice Fed a High-Fat Diet: Possible Role of Endocannabinoids. <i>PLoS ONE</i> , 2012, 7, e38834.	2.5	188
30	Augmenting energy expenditure by mitochondrial uncoupling: a role of AMP-activated protein kinase. <i>Genes and Nutrition</i> , 2012, 7, 369-386.	2.5	40
31	BIOCLAIMS standard diet (BIOsd): a reference diet for nutritional physiology. <i>Genes and Nutrition</i> , 2012, 7, 399-404.	2.5	34
32	Sex differences during the course of diet-induced obesity in mice: adipose tissue expandability and glycemic control. <i>International Journal of Obesity</i> , 2012, 36, 262-272.	3.4	140
33	Preservation of Metabolic Flexibility in Skeletal Muscle by a Combined Use of n-3 PUFA and Rosiglitazone in Dietary Obese Mice. <i>PLoS ONE</i> , 2012, 7, e43764.	2.5	55
34	Unmasking Differential Effects of Rosiglitazone and Pioglitazone in the Combination Treatment with n-3 Fatty Acids in Mice Fed a High-Fat Diet. <i>PLoS ONE</i> , 2011, 6, e27126.	2.5	43
35	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. <i>Diabetologia</i> , 2011, 54, 2626-2638.	6.3	93
36	AMP-activated Protein Kinase β 2 Subunit Is Required for the Preservation of Hepatic Insulin Sensitivity by n-3 Polyunsaturated Fatty Acids. <i>Diabetes</i> , 2010, 59, 2737-2746.	0.6	74

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37	n-3 Fatty acids and rosiglitazone improve insulin sensitivity through additive stimulatory effects on muscle glycogen synthesis in mice fed a high-fat diet. <i>Diabetologia</i> , 2009, 52, 941-951.	6.3	128
38	Prevention and Reversal of Obesity and Glucose Intolerance in Mice by DHA Derivatives. <i>Obesity</i> , 2009, 17, 1023-1031.	3.0	59
39	n-3 PUFA: bioavailability and modulation of adipose tissue function. <i>Proceedings of the Nutrition Society</i> , 2009, 68, 361-369.	1.0	118
40	Cellular and molecular effects of n ³ polyunsaturated fatty acids on adipose tissue biology and metabolism. <i>Clinical Science</i> , 2009, 116, 1-16.	4.3	237
41	Induction of muscle thermogenesis by high-fat diet in mice: association with obesity-resistance. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2008, 295, E356-E367.	3.5	64
42	Triglyceride-lowering Effect of Respiratory Uncoupling in White Adipose Tissue. <i>Obesity</i> , 2005, 13, 835-844.	4.0	18
43	Involvement of AMP-activated protein kinase in fat depot-specific metabolic changes during starvation. <i>FEBS Letters</i> , 2005, 579, 6105-6110.	2.8	41
44	Omega-3 PUFA of marine origin limit diet-induced obesity in mice by reducing cellularity of adipose tissue. <i>Lipids</i> , 2004, 39, 1177-1185.	1.7	268
45	Possible involvement of AMP-activated protein kinase in obesity resistance induced by respiratory uncoupling in white fat. <i>FEBS Letters</i> , 2004, 569, 245-248.	2.8	63
46	Variation in Type 2 Diabetes-Related Traits in Mouse Strains Susceptible to Diet-Induced Obesity. <i>Diabetes</i> , 2003, 52, 1958-1966.	0.6	254
47	Paradoxical resistance to diet-induced obesity in UCP1-deficient mice. <i>Journal of Clinical Investigation</i> , 2003, 111, 399-407.	8.2	267
48	Expression of the uncoupling protein 1 from the aP2 gene promoter stimulates mitochondrial biogenesis in unilocular adipocytes in vivo. <i>FEBS Journal</i> , 2002, 269, 19-28.	0.2	67
49	Adiposity and the Development of Diabetes in Mouse Genetic Models. <i>Annals of the New York Academy of Sciences</i> , 2002, 967, 80-87.	3.8	18
50	Synergistic Gene Interactions Control the Induction of the Mitochondrial Uncoupling Protein (Ucp1) Gene in White Fat Tissue. <i>Journal of Biological Chemistry</i> , 2000, 275, 34486-34492.	3.4	67
51	Decreased fatty acid synthesis due to mitochondrial uncoupling in adipose tissue. <i>FASEB Journal</i> , 2000, 14, 1793-1800.	0.5	75
52	High expression of uncoupling protein 2 in foetal liver. <i>FEBS Letters</i> , 1998, 425, 185-190.	2.8	29
53	Brown fat is essential for cold-induced thermogenesis but not for obesity resistance in aP2-Ucp mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1998, 274, E527-E533.	3.5	47