

Sander M Houten

List of Publications by Year in descending order

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157
papers

15,129
citations

23567

58
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19190

118
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178
all docs

178
docs citations

178
times ranked

21292
citing authors

#	ARTICLE	IF	CITATIONS
1	Bile acids induce energy expenditure by promoting intracellular thyroid hormone activation. <i>Nature</i> , 2006, 439, 484-489.	27.8	1,818
2	Bile acids lower triglyceride levels via a pathway involving FXR, SHP, and SREBP-1c. <i>Journal of Clinical Investigation</i> , 2004, 113, 1408-1418.	8.2	1,069
3	A general introduction to the biochemistry of mitochondrial fatty acid β -oxidation. <i>Journal of Inherited Metabolic Disease</i> , 2010, 33, 469-477.	3.6	678
4	Specific SIRT1 Activation Mimics Low Energy Levels and Protects against Diet-Induced Metabolic Disorders by Enhancing Fat Oxidation. <i>Cell Metabolism</i> , 2008, 8, 347-358.	16.2	665
5	Acylcarnitines. <i>Diabetes</i> , 2013, 62, 1-8.	0.6	551
6	Serum Bile Acids Are Higher in Humans With Prior Gastric Bypass: Potential Contribution to Improved Glucose and Lipid Metabolism. <i>Obesity</i> , 2009, 17, 1671-1677.	3.0	501
7	Endocrine functions of bile acids. <i>EMBO Journal</i> , 2006, 25, 1419-1425.	7.8	498
8	The Biochemistry and Physiology of Mitochondrial Fatty Acid β -Oxidation and Its Genetic Disorders. <i>Annual Review of Physiology</i> , 2016, 78, 23-44.	13.1	490
9	Mutations in MVK, encoding mevalonate kinase, cause hyperimmunoglobulinaemia D and periodic fever syndrome. <i>Nature Genetics</i> , 1999, 22, 175-177.	21.4	480
10	The metabolic footprint of aging in mice. <i>Scientific Reports</i> , 2011, 1, 134.	3.3	440
11	Systems proteomics of liver mitochondria function. <i>Science</i> , 2016, 352, aad0189.	12.6	257
12	PARP-2 Regulates SIRT1 Expression and Whole-Body Energy Expenditure. <i>Cell Metabolism</i> , 2011, 13, 450-460.	16.2	231
13	Multilayered Genetic and Omics Dissection of Mitochondrial Activity in a Mouse Reference Population. <i>Cell</i> , 2014, 158, 1415-1430.	28.9	222
14	Lowering Bile Acid Pool Size with a Synthetic Farnesoid X Receptor (FXR) Agonist Induces Obesity and Diabetes through Reduced Energy Expenditure. <i>Journal of Biological Chemistry</i> , 2011, 286, 26913-26920.	3.4	221
15	Acyl-CoA Dehydrogenase 9 Is Required for the Biogenesis of Oxidative Phosphorylation Complex I. <i>Cell Metabolism</i> , 2010, 12, 283-294.	16.2	172
16	Compensation by the muscle limits the metabolic consequences of lipodystrophy in PPAR δ hypomorphic mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 14457-14462.	7.1	171
17	The enzymology of mitochondrial fatty acid β -oxidation and its application to follow-up analysis of positive neonatal screening results. <i>Journal of Inherited Metabolic Disease</i> , 2010, 33, 479-494.	3.6	166
18	Lack of isoprenoid products raises ex vivo interleukin-1 β secretion in hyperimmunoglobulinemia D and periodic fever syndrome. <i>Arthritis and Rheumatism</i> , 2002, 46, 2794-2803.	6.7	165

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19	Mitochondrial protein acetylation is driven by acetyl-CoA from fatty acid oxidation. <i>Human Molecular Genetics</i> , 2014, 23, 3513-3522.	2.9	140
20	Compromised Intestinal Lipid Absorption in Mice with a Liver-Specific Deficiency of Liver Receptor Homolog 1. <i>Molecular and Cellular Biology</i> , 2007, 27, 8330-8339.	2.3	135
21	Malnutrition-associated liver steatosis and ATP depletion is caused by peroxisomal and mitochondrial dysfunction. <i>Journal of Hepatology</i> , 2016, 65, 1198-1208.	3.7	133
22	Adaptive reciprocity of lipid and glucose metabolism in human short-term starvation. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2012, 303, E1397-E1407.	3.5	132
23	Peroxisome proliferator-activated receptor β : too much of a good thing causes harm. <i>EMBO Reports</i> , 2004, 5, 142-147.	4.5	128
24	Peroxisomal L-bifunctional enzyme (Ehhadh) is essential for the production of medium-chain dicarboxylic acids. <i>Journal of Lipid Research</i> , 2012, 53, 1296-1303.	4.2	127
25	Muscle or liver-specific Sirt3 deficiency induces hyperacetylation of mitochondrial proteins without affecting global metabolic homeostasis. <i>Scientific Reports</i> , 2012, 2, 425.	3.3	126
26	PGC-1 β . <i>Cell</i> , 2004, 119, 5-7.	28.9	113
27	Bile acids lower triglyceride levels via a pathway involving FXR, SHP, and SREBP-1c. <i>Journal of Clinical Investigation</i> , 2004, 113, 1408-1418.	8.2	113
28	Mitochondrial long chain fatty acid β -oxidation in man and mouse. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2009, 1791, 806-815.	2.4	109
29	Fasting Serum Taurine-Conjugated Bile Acids Are Elevated in Type 2 Diabetes and Do Not Change With Intensification of Insulin. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2014, 99, 1442-1451.	3.6	104
30	Overexpression of PLIN5 in skeletal muscle promotes oxidative gene expression and intramyocellular lipid content without compromising insulin sensitivity. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2013, 1831, 844-852.	2.4	100
31	Intestinal Inflammation Modulates the Expression of ACE2 and TMPRSS2 and Potentially Overlaps With the Pathogenesis of SARS-CoV-2-related Disease. <i>Gastroenterology</i> , 2021, 160, 287-301.e20.	1.3	98
32	Temperature dependence of mutant mevalonate kinase activity as a pathogenic factor in Hyper-IgD and periodic fever syndrome. <i>Human Molecular Genetics</i> , 2002, 11, 3115-3124.	2.9	97
33	Peroxisome Proliferator-activated Receptor (PPAR)-2 Controls Adipocyte Differentiation and Adipose Tissue Function through the Regulation of the Activity of the Retinoid X Receptor/PPAR β Heterodimer. <i>Journal of Biological Chemistry</i> , 2007, 282, 37738-37746.	3.4	97
34	Post-natal myogenic and adipogenic developmental. <i>Nucleus</i> , 2011, 2, 195-207.	2.2	97
35	Carrier frequency of the V377I (1129G>A) MVK mutation, associated with Hyper-IgD and periodic fever syndrome, in the Netherlands. <i>European Journal of Human Genetics</i> , 2003, 11, 196-200.	2.8	93
36	Bile Acid Binding Resin Improves Metabolic Control through the Induction of Energy Expenditure. <i>PLoS ONE</i> , 2012, 7, e38286.	2.5	93

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37	A key role for the peroxisomal ABCD2 transporter in fatty acid homeostasis. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009, 296, E211-E221.	3.5	91
38	Organization of the mevalonate kinase (MVK) gene and identification of novel mutations causing mevalonic aciduria and hyperimmunoglobulinaemia D and periodic fever syndrome. <i>European Journal of Human Genetics</i> , 2001, 9, 253-259.	2.8	85
39	Biallelic Mutations in MRPS34 Lead to Instability of the Small Mitochondrial Subunit and Leigh Syndrome. <i>American Journal of Human Genetics</i> , 2017, 101, 239-254.	6.2	83
40	Peroxisomes can oxidize medium- and long-chain fatty acids through a pathway involving ABCD3 and HSD17B4. <i>FASEB Journal</i> , 2019, 33, 4355-4364.	0.5	82
41	The small heterodimer partner is a gonadal gatekeeper of sexual maturation in male mice. <i>Genes and Development</i> , 2007, 21, 303-315.	5.9	81
42	A Next Generation Multiscale View of Inborn Errors of Metabolism. <i>Cell Metabolism</i> , 2016, 23, 13-26.	16.2	79
43	Metabolic interactions between peroxisomes and mitochondria with a special focus on acylcarnitine metabolism. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020, 1866, 165720.	3.8	78
44	Biochemical and genetic aspects of mevalonate kinase and its deficiency. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2000, 1529, 19-32.	2.4	76
45	Peroxisomes contribute to the acylcarnitine production when the carnitine shuttle is deficient. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2013, 1831, 1467-1474.	2.4	74
46	Peroxisomes and bile acid biosynthesis. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2006, 1763, 1427-1440.	4.1	73
47	SUMOylation-Dependent LRH-1/PROX1 Interaction Promotes Atherosclerosis by Decreasing Hepatic Reverse Cholesterol Transport. <i>Cell Metabolism</i> , 2014, 20, 603-613.	16.2	73
48	Increased intramyocellular lipid content but normal skeletal muscle mitochondrial oxidative capacity throughout the pathogenesis of type 2 diabetes. <i>FASEB Journal</i> , 2008, 22, 3947-3955.	0.5	70
49	Glutamine Synthetase in Muscle Is Required for Glutamine Production during Fasting and Extrahepatic Ammonia Detoxification. <i>Journal of Biological Chemistry</i> , 2010, 285, 9516-9524.	3.4	69
50	Fasting-Induced Myocardial Lipid Accumulation in Long-Chain Acyl-CoA Dehydrogenase Knockout Mice Is Accompanied by Impaired Left Ventricular Function. <i>Circulation: Cardiovascular Imaging</i> , 2011, 4, 558-565.	2.6	69
51	Substrate specificity of human carnitine acetyltransferase: Implications for fatty acid and branched-chain amino acid metabolism. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2013, 1832, 773-779.	3.8	69
52	PLPHP deficiency: clinical, genetic, biochemical, and mechanistic insights. <i>Brain</i> , 2019, 142, 542-559.	7.6	67
53	Identification and Characterization of Three Novel Missense Mutations in Mevalonate Kinase cDNA Causing Mevalonic Aciduria, a Disorder of Isoprene Biosynthesis. <i>Human Molecular Genetics</i> , 1999, 8, 1523-1528.	2.9	65
54	Aberrant protein acylation is a common observation in inborn errors of acyl-CoA metabolism. <i>Journal of Inherited Metabolic Disease</i> , 2014, 37, 709-714.	3.6	65

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55	Muscle acylcarnitines during short-term fasting in lean healthy men. <i>Clinical Science</i> , 2009, 116, 585-592.	4.3	64
56	Mitochondrial NADP(H) deficiency due to a mutation in NADK2 causes dienoyl-CoA reductase deficiency with hyperlysinemia. <i>Human Molecular Genetics</i> , 2014, 23, 5009-5016.	2.9	63
57	Regulation of Isoprenoid/Cholesterol Biosynthesis in Cells from Mevalonate Kinase-deficient Patients. <i>Journal of Biological Chemistry</i> , 2003, 278, 5736-5743.	3.4	62
58	In Vivo Imaging of Farnesoid X Receptor Activity Reveals the Ileum as the Primary Bile Acid Signaling Tissue. <i>Molecular Endocrinology</i> , 2007, 21, 1312-1323.	3.7	62
59	Differential effects of short- and long-term high-fat diet feeding on hepatic fatty acid metabolism in rats. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2011, 1811, 441-451.	2.4	61
60	Impaired amino acid metabolism contributes to fasting-induced hypoglycemia in fatty acid oxidation defects. <i>Human Molecular Genetics</i> , 2013, 22, 5249-5261.	2.9	61
61	Hyper IgD syndrome (HIDS) associated with in vitro evidence of defective monocyte TNFRSF1A shedding and partial response to TNF receptor blockade with etanercept. <i>Clinical and Experimental Immunology</i> , 2002, 130, 484-488.	2.6	60
62	Plasma acylcarnitines inadequately reflect tissue acylcarnitine metabolism. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2014, 1841, 987-994.	2.4	60
63	Critical assessment of human metabolic pathway databases: a stepping stone for future integration. <i>BMC Systems Biology</i> , 2011, 5, 165.	3.0	59
64	Characterization of D-3-hydroxybutyrylcarnitine (ketocarnitine): an identified ketosis-induced metabolite. <i>Metabolism: Clinical and Experimental</i> , 2012, 61, 966-973.	3.4	59
65	Carnitine palmitoyltransferase 2 and carnitine/acylcarnitine translocase are involved in the mitochondrial synthesis and export of acylcarnitines. <i>FASEB Journal</i> , 2013, 27, 2039-2044.	0.5	58
66	Biochemical Competition Makes Fatty-Acid β^2 -Oxidation Vulnerable to Substrate Overload. <i>PLoS Computational Biology</i> , 2013, 9, e1003186.	3.2	58
67	A mechanistic framework for cardiometabolic and coronary artery diseases. , 2022, 1, 85-100.		51
68	Fiber-type-specific sensitivities and phenotypic adaptations to dietary fat overload differentially impact fast- versus slow-twitch muscle contractile function in C57BL/6J mice. <i>Journal of Nutritional Biochemistry</i> , 2015, 26, 155-164.	4.2	50
69	Genetic basis of alpha-aminoadipic and alpha-ketoadipic aciduria. <i>Journal of Inherited Metabolic Disease</i> , 2015, 38, 873-879.	3.6	50
70	Human geroprotector discovery by targeting the converging subnetworks of aging and age-related diseases. <i>GeroScience</i> , 2020, 42, 353-372.	4.6	50
71	A cholesterol-free, high-fat diet suppresses gene expression of cholesterol transporters in murine small intestine. <i>American Journal of Physiology - Renal Physiology</i> , 2008, 294, G1171-G1180.	3.4	49
72	ACAD9, a complex I assembly factor with a moonlighting function in fatty acid oxidation deficiencies. <i>Human Molecular Genetics</i> , 2014, 23, 1311-1319.	2.9	49

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73	Fatty acid oxidation flux predicts the clinical severity of VLCAD deficiency. <i>Genetics in Medicine</i> , 2015, 17, 989-994.	2.4	48
74	Pyruvate dehydrogenase kinase 4 expression is synergistically induced by AMP-activated protein kinase and fatty acids. <i>Cellular and Molecular Life Sciences</i> , 2009, 66, 1283-1294.	5.4	47
75	Effects of Insulin on Ketogenesis Following Fasting in Lean and Obese Men. <i>Obesity</i> , 2009, 17, 1326-1331.	3.0	47
76	Increased mitochondrial content rescues <i>in vivo</i> muscle oxidative capacity in long-term high-fat diet-fed rats. <i>FASEB Journal</i> , 2010, 24, 1354-1364.	0.5	47
77	Bile acids alter male fertility through G-protein-coupled bile acid receptor 1 signaling pathways in mice. <i>Hepatology</i> , 2014, 60, 1054-1065.	7.3	47
78	Optimizing anesthetic regimen for surgery in mice through minimization of hemodynamic, metabolic, and inflammatory perturbations. <i>Experimental Biology and Medicine</i> , 2014, 239, 737-746.	2.4	47
79	Absence of functional peroxisomes does not lead to deficiency of enzymes involved in cholesterol biosynthesis. <i>Journal of Lipid Research</i> , 2002, 43, 90-98.	4.2	46
80	A PPAR β -Bnip3 Axis Couples Adipose Mitochondrial Fusion-Fission Balance to Systemic Insulin Sensitivity. <i>Diabetes</i> , 2016, 65, 2591-2605.	0.6	45
81	The lysine degradation pathway: Subcellular compartmentalization and enzyme deficiencies. <i>Molecular Genetics and Metabolism</i> , 2020, 131, 14-22.	1.1	45
82	Transorgan fluxes in a porcine model reveal a central role for liver in acylcarnitine metabolism. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015, 309, E256-E264.	3.5	43
83	The enterohepatic nuclear receptors are major regulators of the enterohepatic circulation of bile salts. <i>Annals of Medicine</i> , 2004, 36, 482-491.	3.8	41
84	Genetic basis of hyperlysinemia. <i>Orphanet Journal of Rare Diseases</i> , 2013, 8, 57.	2.7	41
85	Functional redundancy of mitochondrial enoyl-CoA isomerases in the oxidation of unsaturated fatty acids. <i>FASEB Journal</i> , 2012, 26, 4316-4326.	0.5	40
86	Prevention and reversal of hepatic steatosis with a high-protein diet in mice. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2013, 1832, 685-695.	3.8	40
87	Myocardial energy shortage and unmet anaplerotic needs in the fasted long-chain acyl-CoA dehydrogenase knockout mouse. <i>Cardiovascular Research</i> , 2013, 100, 441-449.	3.8	40
88	Bezafibrate lowers very long-chain fatty acids in α -linked adrenoleukodystrophy fibroblasts by inhibiting fatty acid elongation. <i>Journal of Inherited Metabolic Disease</i> , 2012, 35, 1137-1145.	3.6	39
89	Increased cardiac fatty acid oxidation in a mouse model with decreased malonyl-CoA sensitivity of CPT1B. <i>Cardiovascular Research</i> , 2018, 114, 1324-1334.	3.8	37
90	High-protein diets prevent steatosis and induce hepatic accumulation of monomethyl branched-chain fatty acids. <i>Journal of Nutritional Biochemistry</i> , 2014, 25, 1263-1274.	4.2	36

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91	Deficiency of the Mitochondrial NAD Kinase Causes Stress-Induced Hepatic Steatosis in Mice. <i>Gastroenterology</i> , 2018, 154, 224-237.	1.3	35
92	An integrative multiomic network model links lipid metabolism to glucose regulation in coronary artery disease. <i>Nature Communications</i> , 2021, 12, 547.	12.8	35
93	Altered Energetics of Exercise Explain Risk of Rhabdomyolysis in Very Long-Chain Acyl-CoA Dehydrogenase Deficiency. <i>PLoS ONE</i> , 2016, 11, e0147818.	2.5	35
94	PPARdelta activation induces metabolic and contractile maturation of human pluripotent stem cell-derived cardiomyocytes. <i>Cell Stem Cell</i> , 2022, 29, 559-576.e7.	11.1	34
95	Manipulation of isoprenoid biosynthesis as a possible therapeutic option in mevalonate kinase deficiency. <i>Arthritis and Rheumatism</i> , 2006, 54, 2306-2313.	6.7	33
96	Role of Medium- and Short-Chain L-3-Hydroxyacyl-CoA Dehydrogenase in the Regulation of Body Weight and Thermogenesis. <i>Endocrinology</i> , 2011, 152, 4641-4651.	2.8	33
97	Absence of functional peroxisomes does not lead to deficiency of enzymes involved in cholesterol biosynthesis. <i>Journal of Lipid Research</i> , 2002, 43, 90-8.	4.2	33
98	Nonorthologous Gene Displacement of Phosphomevalonate Kinase. <i>Molecular Genetics and Metabolism</i> , 2001, 72, 273-276.	1.1	32
99	Plasma FGF-19 Levels are Increased in Patients with Post-Bariatric Hypoglycemia. <i>Obesity Surgery</i> , 2019, 29, 2092-2099.	2.1	32
100	Carnitine supplementation attenuates myocardial lipid accumulation in long-chain acyl-CoA dehydrogenase knockout mice. <i>Journal of Inherited Metabolic Disease</i> , 2013, 36, 973-981.	3.6	31
101	A Mitochondrial Expatriate: Nuclear Pyruvate Dehydrogenase. <i>Cell</i> , 2014, 158, 9-10.	28.9	30
102	Novel, Compound Heterozygous, Single-Nucleotide Variants in <i>MARS2</i> Associated with Developmental Delay, Poor Growth, and Sensorineural Hearing Loss. <i>Human Mutation</i> , 2015, 36, 587-592.	2.5	29
103	Mevalonic aciduria in 12 unrelated patients with hyperimmunoglobulinemia D and periodic fever syndrome. <i>Journal of Inherited Metabolic Disease</i> , 2000, 23, 363-366.	3.6	27
104	Metabolomics: Unraveling the chemical individuality of common human diseases. <i>Annals of Medicine</i> , 2009, 41, 402-407.	3.8	27
105	Integrative Analysis of the Inflammatory Bowel Disease Serum Metabolome Improves Our Understanding of Genetic Etiology and Points to Novel Putative Therapeutic Targets. <i>Gastroenterology</i> , 2022, 162, 828-843.e11.	1.3	26
106	Assessment of plasma acylcarnitines before and after weight loss in obese subjects. <i>Archives of Biochemistry and Biophysics</i> , 2016, 606, 73-80.	3.0	25
107	Muscle MRI in patients with long-chain fatty acid oxidation disorders. <i>Journal of Inherited Metabolic Disease</i> , 2014, 37, 405-413.	3.6	24
108	Inter-tissue coexpression network analysis reveals DPP4 as an important gene in heart to blood communication. <i>Genome Medicine</i> , 2016, 8, 15.	8.2	24

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109	Improving the description of metabolic networks: the TCA cycle as example. <i>FASEB Journal</i> , 2012, 26, 3625-3636.	0.5	22
110	Pioglitazone treatment restores <i>in vivo</i> muscle oxidative capacity in a rat model of diabetes. <i>Diabetes, Obesity and Metabolism</i> , 2015, 17, 52-60.	4.4	22
111	Empagliflozin Decreases Lactate Generation in an NHE-1 Dependent Fashion and Increases α -Ketoglutarate Synthesis From Palmitate in Type II Diabetic Mouse Hearts. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 592233.	2.4	22
112	DHTKD1 and OGDH display substrate overlap in cultured cells and form a hybrid 2-oxo acid dehydrogenase complex in vivo. <i>Human Molecular Genetics</i> , 2020, 29, 1168-1179.	2.9	21
113	Lipid and Bile Acid Analysis. <i>Current Protocols in Molecular Biology</i> , 2006, 75, Unit 29B.2.	2.9	20
114	A Diet Rich in Unsaturated Fatty Acids Prevents Progression Toward Heart Failure in a Rabbit Model of Pressure and Volume Overload. <i>Circulation: Heart Failure</i> , 2012, 5, 376-384.	3.9	20
115	Changes in the Metabolome in Response to Low-Dose Exposure to Environmental Chemicals Used in Personal Care Products during Different Windows of Susceptibility. <i>PLoS ONE</i> , 2016, 11, e0159919.	2.5	20
116	The Effects of Long- or Medium-Chain Fat Diets on Glucose Tolerance and Myocellular Content of Lipid Intermediates in Rats. <i>Obesity</i> , 2011, 19, 792-799.	3.0	19
117	In vivomouse myocardial ³¹ P MRS using three-dimensional image-selected in vivo spectroscopy (3D ISIS): technical considerations and biochemical validations. <i>NMR in Biomedicine</i> , 2015, 28, 1218-1227.	2.8	19
118	A next generation sequencing based approach to identify extracellular vesicle mediated mRNA transfers between cells. <i>BMC Genomics</i> , 2017, 18, 987.	2.8	19
119	Molecular basis of classical mevalonic aciduria and the hyperimmunoglobulinaemia D and periodic fever syndrome: High frequency of 3 mutations in the mevalonate kinase gene. <i>Journal of Inherited Metabolic Disease</i> , 2000, 23, 367-370.	3.6	18
120	Characterization of l-aminocarnitine, an inhibitor of fatty acid oxidation. <i>Molecular Genetics and Metabolism</i> , 2008, 93, 403-410.	1.1	18
121	Effect of Statins on the Viability of Macrophages and Smooth Muscle Cells. <i>Journal of Cardiovascular Pharmacology</i> , 2010, 55, 269-275.	1.9	17
122	Heterozygous Pathogenic Variant in <i>DACT1</i> Causes an Autosomal-Dominant Syndrome with Features Overlapping Townes-Brocks Syndrome. <i>Human Mutation</i> , 2017, 38, 373-377.	2.5	17
123	Deletion of α -amino adipic semialdehyde synthase limits metabolite accumulation in cell and mouse models for glutaric aciduria type 1. <i>Journal of Inherited Metabolic Disease</i> , 2020, 43, 1154-1164.	3.6	17
124	NLRX1 Deletion Increases Ischemia-Reperfusion Damage and Activates Glucose Metabolism in Mouse Heart. <i>Frontiers in Immunology</i> , 2020, 11, 591815.	4.8	16
125	The Glucosylceramide Synthase Inhibitor <i>N</i> -(5-Adamantane-1-yl-methoxy-pentyl)-deoxynojirimycin Induces Sterol Regulatory Element-Binding Protein-Regulated Gene Expression and Cholesterol Synthesis in HepG2 Cells. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2008, 326, 849-855.	2.5	15
126	The impact of altered carnitine availability on acylcarnitine metabolism, energy expenditure and glucose tolerance in diet-induced obese mice. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2016, 1862, 1375-1382.	3.8	15

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127	Acute detachment of hexokinase II from mitochondria modestly increases oxygen consumption of the intact mouse heart. <i>Metabolism: Clinical and Experimental</i> , 2017, 72, 66-74.	3.4	15
128	Germline deletion of KrÄppel-like factor 14 does not increase risk of diet induced metabolic syndrome in male C57BL/6 mice. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 3277-3285.	3.8	15
129	Murine deficiency of peroxisomal l-bifunctional protein (EHHADH) causes medium-chain 3-hydroxydicarboxylic aciduria and perturbs hepatic cholesterol homeostasis. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 5631-5646.	5.4	15
130	Mild inborn errors of metabolism in commonly used inbred mouse strains. <i>Molecular Genetics and Metabolism</i> , 2019, 126, 388-396.	1.1	14
131	Saccharopine, a lysine degradation intermediate, is a mitochondrial toxin. <i>Journal of Cell Biology</i> , 2019, 218, 391-392.	5.2	14
132	Inhibition and Crystal Structure of the Human DHTKD1-Thiamin Diphosphate Complex. <i>ACS Chemical Biology</i> , 2020, 15, 2041-2047.	3.4	14
133	<i>Slc22a5</i> haploinsufficiency does not aggravate the phenotype of the long-chain acyl-CoA dehydrogenase KO mouse. <i>Journal of Inherited Metabolic Disease</i> , 2020, 43, 486-495.	3.6	13
134	Homing in on bile acid physiology. <i>Cell Metabolism</i> , 2006, 4, 423-424.	16.2	12
135	Liver disease predominates in a mouse model for mild human Zellweger spectrum disorder. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2019, 1865, 2774-2787.	3.8	12
136	The peroxisomal transporter <i>ABCD3</i> plays a major role in hepatic dicarboxylic fatty acid metabolism and lipid homeostasis. <i>Journal of Inherited Metabolic Disease</i> , 2021, 44, 1419-1433.	3.6	12
137	Food withdrawal lowers energy expenditure and induces inactivity in long-chain fatty acid oxidation-deficient mouse models. <i>FASEB Journal</i> , 2014, 28, 2891-2900.	0.5	10
138	Carnitine supplementation in high-fat diet-fed rats does not ameliorate lipid-induced skeletal muscle mitochondrial dysfunction in vivo. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015, 309, E670-E678.	3.5	10
139	Toward an Understanding of the Structural and Mechanistic Aspects of Protein-Protein Interactions in 2-Oxoacid Dehydrogenase Complexes. <i>Life</i> , 2021, 11, 407.	2.4	10
140	Peroxisomal L-bifunctional Protein Deficiency Causes Male-specific Kidney Hypertrophy and Proximal Tubular Injury in Mice. <i>Kidney360</i> , 2021, 2, 1441-1454.	2.1	10
141	Identification and characterization of Eci3, a murine kidney-specific ³ , ² enoyl-CoA isomerase. <i>FASEB Journal</i> , 2014, 28, 1365-1374.	0.5	9
142	A mitochondrial long-chain fatty acid oxidation defect leads to transfer RNA uncharging and activation of the integrated stress response in the mouse heart. <i>Cardiovascular Research</i> , 2022, 118, 3198-3210.	3.8	9
143	In vivo proton <i>T</i> ₁ relaxation times of mouse myocardial metabolites at 9.4 <i>T</i> . <i>Magnetic Resonance in Medicine</i> , 2015, 73, 2069-2074.	3.0	7
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