

Riekelt H Houtkooper

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2375907/publications.pdf>

Version: 2024-02-01

164
papers

16,748
citations

29994

54
h-index

16127

124
g-index

179
all docs

179
docs citations

179
times ranked

24127
citing authors

#	ARTICLE	IF	CITATIONS
1	Sirtuins as regulators of metabolism and healthspan. <i>Nature Reviews Molecular Cell Biology</i> , 2012, 13, 225-238.	16.1	1,633
2	Calorie Restriction-like Effects of 30 Days of Resveratrol Supplementation on Energy Metabolism and Metabolic Profile in Obese Humans. <i>Cell Metabolism</i> , 2011, 14, 612-622.	7.2	1,072
3	The NAD ⁺ Precursor Nicotinamide Riboside Enhances Oxidative Metabolism and Protects against High-Fat Diet-Induced Obesity. <i>Cell Metabolism</i> , 2012, 15, 838-847.	7.2	957
4	The NAD ⁺ /Sirtuin Pathway Modulates Longevity through Activation of Mitochondrial UPR and FOXO Signaling. <i>Cell</i> , 2013, 154, 430-441.	13.5	951
5	Mitochondrial protein imbalance as a conserved longevity mechanism. <i>Nature</i> , 2013, 497, 451-457.	13.7	846
6	The Secret Life of NAD ⁺ : An Old Metabolite Controlling New Metabolic Signaling Pathways. <i>Endocrine Reviews</i> , 2010, 31, 194-223.	8.9	731
7	PARP-1 Inhibition Increases Mitochondrial Metabolism through SIRT1 Activation. <i>Cell Metabolism</i> , 2011, 13, 461-468.	7.2	673
8	The metabolic footprint of aging in mice. <i>Scientific Reports</i> , 2011, 1, 134.	1.6	440
9	Tetracyclines Disturb Mitochondrial Function across Eukaryotic Models: A Call for Caution in Biomedical Research. <i>Cell Reports</i> , 2015, 10, 1681-1691.	2.9	385
10	Imp2 controls oxidative phosphorylation and is crucial for preserving glioblastoma cancer stem cells. <i>Genes and Development</i> , 2012, 26, 1926-1944.	2.7	370
11	Metabolic Flexibility as an Adaptation to Energy Resources and Requirements in Health and Disease. <i>Endocrine Reviews</i> , 2018, 39, 489-517.	8.9	359
12	Cardiolipin, the heart of mitochondrial metabolism. <i>Cellular and Molecular Life Sciences</i> , 2008, 65, 2493-2506.	2.4	340
13	Pharmacological approaches to restore mitochondrial function. <i>Nature Reviews Drug Discovery</i> , 2013, 12, 465-483.	21.5	323
14	Cardiolipin provides an essential activating platform for caspase-8 on mitochondria. <i>Journal of Cell Biology</i> , 2008, 183, 681-696.	2.3	258
15	Microbial stimulation of different Toll-like receptor signalling pathways induces diverse metabolic programmes in human monocytes. <i>Nature Microbiology</i> , 2017, 2, 16246.	5.9	228
16	Cardiac and Skeletal Muscle Defects in a Mouse Model of Human Barth Syndrome. <i>Journal of Biological Chemistry</i> , 2011, 286, 899-908.	1.6	226
17	Disorders of mitochondrial long-chain fatty acid oxidation and the carnitine shuttle. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2018, 19, 93-106.	2.6	215
18	Laminar Shear Stress Inhibits Endothelial Cell Metabolism via KLF2-Mediated Repression of PFKFB3. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 137-145.	1.1	213

#	ARTICLE	IF	CITATIONS
19	Systems Genetics of Metabolism: The Use of the BXD Murine Reference Panel for Multiscalar Integration of Traits. <i>Cell</i> , 2012, 150, 1287-1299.	13.5	212
20	Metabolic Networks of Longevity. <i>Cell</i> , 2010, 142, 9-14.	13.5	190
21	Mutations in LPIN1 Cause Recurrent Acute Myoglobinuria in Childhood. <i>American Journal of Human Genetics</i> , 2008, 83, 489-494.	2.6	189
22	Host-Microbe-Drug-Nutrient Screen Identifies Bacterial Effectors of Metformin Therapy. <i>Cell</i> , 2019, 178, 1299-1312.e29.	13.5	186
23	Mitochondrial fission and fusion: A dynamic role in aging and potential target for age-related disease. <i>Mechanisms of Ageing and Development</i> , 2020, 186, 111212.	2.2	174
24	NAD ⁺ metabolism: A therapeutic target for age-related metabolic disease. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2013, 48, 397-408.	2.3	163
25	MTCH2/MIMP is a major facilitator of tBID recruitment to mitochondria. <i>Nature Cell Biology</i> , 2010, 12, 553-562.	4.6	154
26	Key Electrophysiological, Molecular, and Metabolic Signatures of Sleep and Wakefulness Revealed in Primary Cortical Cultures. <i>Journal of Neuroscience</i> , 2012, 32, 12506-12517.	1.7	151
27	BID is cleaved by caspase-8 within a native complex on the mitochondrial membrane. <i>Cell Death and Differentiation</i> , 2011, 18, 538-548.	5.0	146
28	Barth syndrome: Cellular compensation of mitochondrial dysfunction and apoptosis inhibition due to changes in cardiolipin remodeling linked to tafazzin (TAZ) gene mutation. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2013, 1832, 1194-1206.	1.8	140
29	A Defective Pentose Phosphate Pathway Reduces Inflammatory Macrophage Responses during Hypercholesterolemia. <i>Cell Reports</i> , 2018, 25, 2044-2052.e5.	2.9	140
30	The enigmatic role of tafazzin in cardiolipin metabolism. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 2003-2014.	1.4	135
31	A screening-based platform for the assessment of cellular respiration in <i>Caenorhabditis elegans</i> . <i>Nature Protocols</i> , 2016, 11, 1798-1816.	5.5	133
32	Cardiolipin and monolysocardiolipin analysis in fibroblasts, lymphocytes, and tissues using high-performance liquid chromatography-mass spectrometry as a diagnostic test for Barth syndrome. <i>Analytical Biochemistry</i> , 2009, 387, 230-237.	1.1	120
33	Mitochondrial response to nutrient availability and its role in metabolic disease. <i>EMBO Molecular Medicine</i> , 2014, 6, 580-589.	3.3	120
34	Only One Splice Variant of the Human TAZ Gene Encodes a Functional Protein with a Role in Cardiolipin Metabolism. <i>Journal of Biological Chemistry</i> , 2003, 278, 43089-43094.	1.6	118
35	Prolonged daily light exposure increases body fat mass through attenuation of brown adipose tissue activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6748-6753.	3.3	115
36	The role of glycolysis and mitochondrial respiration in the formation and functioning of endothelial tip cells during angiogenesis. <i>Scientific Reports</i> , 2019, 9, 12608.	1.6	113

#	ARTICLE	IF	CITATIONS
37	Tetracycline Antibiotics Impair Mitochondrial Function and Its Experimental Use Confounds Research. <i>Cancer Research</i> , 2015, 75, 4446-4449.	0.4	112
38	Mitochondrial quality control pathways as determinants of metabolic health. <i>BioEssays</i> , 2015, 37, 867-876.	1.2	109
39	Bloodspot Assay Using HPLC-Tandem Mass Spectrometry for Detection of Barth Syndrome. <i>Clinical Chemistry</i> , 2008, 54, 371-378.	1.5	108
40	Antibiotic use and abuse: A threat to mitochondria and chloroplasts with impact on research, health, and environment. <i>BioEssays</i> , 2015, 37, 1045-1053.	1.2	108
41	Atherogenic Lipoprotein(a) Increases Vascular Glycolysis, Thereby Facilitating Inflammation and Leukocyte Extravasation. <i>Circulation Research</i> , 2020, 126, 1346-1359.	2.0	96
42	Nicotinamide riboside supplementation alters body composition and skeletal muscle acetylcarnitine concentrations in healthy obese humans. <i>American Journal of Clinical Nutrition</i> , 2020, 112, 413-426.	2.2	96
43	Exploring the therapeutic space around NAD ⁺ . <i>Journal of Cell Biology</i> , 2012, 199, 205-209.	2.3	93
44	Lipoprotein Lipase Maintains Microglial Innate Immunity in Obesity. <i>Cell Reports</i> , 2017, 20, 3034-3042.	2.9	89
45	A reduced form of nicotinamide riboside defines a new path for NAD ⁺ biosynthesis and acts as an orally bioavailable NAD ⁺ precursor. <i>Molecular Metabolism</i> , 2019, 30, 192-202.	3.0	89
46	Identification and characterization of human cardiolipin synthase. <i>FEBS Letters</i> , 2006, 580, 3059-3064.	1.3	87
47	A Conserved Mito-Cytosolic Translational Balance Links Two Longevity Pathways. <i>Cell Metabolism</i> , 2020, 31, 549-563.e7.	7.2	87
48	NAD ⁺ homeostasis in human health and disease. <i>EMBO Molecular Medicine</i> , 2021, 13, e13943.	3.3	86
49	From molecular promise to preclinical results: HDAC inhibitors in the race for healthy aging drugs. <i>EMBO Molecular Medicine</i> , 2019, 11, e9854.	3.3	77
50	A Ribosomopathy Reveals Decoding Defective Ribosomes Driving Human Dysmorphisms. <i>American Journal of Human Genetics</i> , 2017, 100, 506-522.	2.6	69
51	Distinct effects of tafazzin deletion in differentiated and undifferentiated mitochondria. <i>Mitochondrion</i> , 2009, 9, 86-95.	1.6	68
52	Mfn1 Deficiency in the Liver Protects Against Diet-Induced Insulin Resistance and Enhances the Hypoglycemic Effect of Metformin. <i>Diabetes</i> , 2016, 65, 3552-3560.	0.3	66
53	Ageing-regulated anti-apoptotic long non-coding RNA Sarrah augments recovery from acute myocardial infarction. <i>Nature Communications</i> , 2020, 11, 2039.	5.8	63
54	A homozygous missense mutation in ERAL1, encoding a mitochondrial rRNA chaperone, causes Perrault syndrome. <i>Human Molecular Genetics</i> , 2017, 26, 2541-2550.	1.4	61

#	ARTICLE	IF	CITATIONS
55	A sensitive mass spectrometry platform identifies metabolic changes of life history traits in <i>C. elegans</i> . <i>Scientific Reports</i> , 2017, 7, 2408.	1.6	61
56	Mitochondrial Dysfunction Underlies Cardiomyocyte Remodeling in Experimental and Clinical Atrial Fibrillation. <i>Cells</i> , 2019, 8, 1202.	1.8	57
57	Deletion of the Cardiolipin-specific Phospholipase Cld1 Rescues Growth and Life Span Defects in the Tafazzin Mutant. <i>Journal of Biological Chemistry</i> , 2014, 289, 3114-3125.	1.6	55
58	Glycine promotes longevity in <i>Caenorhabditis elegans</i> in a methionine cycle-dependent fashion. <i>PLoS Genetics</i> , 2019, 15, e1007633.	1.5	55
59	Barth syndrome cells display widespread remodeling of mitochondrial complexes without affecting metabolic flux distribution. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 3650-3658.	1.8	53
60	Pyruvate dehydrogenase complex plays a central role in brown adipocyte energy expenditure and fuel utilization during short-term beta-adrenergic activation. <i>Scientific Reports</i> , 2018, 8, 9562.	1.6	53
61	Identification of key pathways and metabolic fingerprints of longevity in <i>C. elegans</i> . <i>Experimental Gerontology</i> , 2018, 113, 128-140.	1.2	50
62	Quercetin Lowers Plasma Triglycerides Accompanied by White Adipose Tissue Browning in Diet-Induced Obese Mice. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1786.	1.8	50
63	Fatty acid oxidation flux predicts the clinical severity of VLCAD deficiency. <i>Genetics in Medicine</i> , 2015, 17, 989-994.	1.1	48
64	NAD ⁺ metabolism as a target for metabolic health: have we found the silver bullet?. <i>Diabetologia</i> , 2019, 62, 888-899.	2.9	47
65	Integrating the Hallmarks of Aging Throughout the Tree of Life: A Focus on Mitochondrial Dysfunction. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 594416.	1.8	46
66	Cardiomyocyte-Specific miRNA-30c Over-Expression Causes Dilated Cardiomyopathy. <i>PLoS ONE</i> , 2014, 9, e96290.	1.1	44
67	A method to identify and validate mitochondrial modulators using mammalian cells and the worm <i>C. elegans</i> . <i>Scientific Reports</i> , 2014, 4, 5285.	1.6	42
68	Reduced nicotinamide mononucleotide is a new and potent NAD ⁺ precursor in mammalian cells and mice. <i>FASEB Journal</i> , 2021, 35, e21456.	0.2	42
69	Cholestasis Is Associated with Hepatic Microvascular Dysfunction and Aberrant Energy Metabolism Before and During Ischemia-Reperfusion. <i>Antioxidants and Redox Signaling</i> , 2012, 17, 1109-1123.	2.5	40
70	Modeling Meets Metabolomics—The WormJam Consensus Model as Basis for Metabolic Studies in the Model Organism <i>Caenorhabditis elegans</i> . <i>Frontiers in Molecular Biosciences</i> , 2018, 5, 96.	1.6	40
71	A single day of high-fat diet feeding induces lipid accumulation and insulin resistance in brown adipose tissue in mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019, 317, E820-E830.	1.8	40
72	Natural genetic variation in <i>C. elegans</i> identified genomic loci controlling metabolite levels. <i>Genome Research</i> , 2018, 28, 1296-1308.	2.4	39

#	ARTICLE	IF	CITATIONS
73	Healthy aging and muscle function are positively associated with NAD ⁺ abundance in humans. <i>Nature Aging</i> , 2022, 2, 254-263.	5.3	39
74	Increased cardiac fatty acid oxidation in a mouse model with decreased malonyl-CoA sensitivity of CPT1B. <i>Cardiovascular Research</i> , 2018, 114, 1324-1334.	1.8	37
75	COmplexome Profiling ALignment (COPAL) reveals remodeling of mitochondrial protein complexes in Barth syndrome. <i>Bioinformatics</i> , 2019, 35, 3083-3091.	1.8	37
76	Mitochondrial translation and dynamics synergistically extend lifespan in <i>C. elegans</i> through HLH-30. <i>Journal of Cell Biology</i> , 2020, 219, .	2.3	37
77	Impact of newborn screening for very-long-chain acyl-CoA dehydrogenase deficiency on genetic, enzymatic, and clinical outcomes. <i>Journal of Inherited Metabolic Disease</i> , 2019, 42, 414-423.	1.7	36
78	Platelet Toll-like receptor expression and activation induced by lipopolysaccharide and sepsis. <i>Platelets</i> , 2019, 30, 296-304.	1.1	36
79	The gut microbiota as a modulator of innate immunity during melioidosis. <i>PLoS Neglected Tropical Diseases</i> , 2017, 11, e0005548.	1.3	36
80	The Role of AMPK Signaling in Brown Adipose Tissue Activation. <i>Cells</i> , 2021, 10, 1122.	1.8	35
81	Mitochondrial Fatty Acid Oxidation Disorders: Laboratory Diagnosis, Pathogenesis, and the Complicated Route to Treatment. <i>Journal of Lipid and Atherosclerosis</i> , 2020, 9, 313.	1.1	35
82	Hepatic Carbohydrate Response Element Binding Protein Activation Limits Nonalcoholic Fatty Liver Disease Development in a Mouse Model for Glycogen Storage Disease Type 1a. <i>Hepatology</i> , 2020, 72, 1638-1653.	3.6	34
83	ARDD 2020: from aging mechanisms to interventions. <i>Aging</i> , 2020, 12, 24484-24503.	1.4	32
84	Immunometabolic rewiring of tubular epithelial cells in kidney disease. <i>Nature Reviews Nephrology</i> , 2022, 18, 588-603.	4.1	32
85	Cardiolipin-induced activation of pyruvate dehydrogenase links mitochondrial lipid biosynthesis to TCA cycle function. <i>Journal of Biological Chemistry</i> , 2019, 294, 11568-11578.	1.6	31
86	Deletion of NLRX1 increases fatty acid metabolism and prevents diet-induced hepatic steatosis and metabolic syndrome. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 1883-1895.	1.8	30
87	Skeletal muscle in healthy humans exhibits a day-night rhythm in lipid metabolism. <i>Molecular Metabolism</i> , 2020, 37, 100989.	3.0	30
88	HNRNPR Variants that Impair Homeobox Gene Expression Drive Developmental Disorders in Humans. <i>American Journal of Human Genetics</i> , 2019, 104, 1040-1059.	2.6	29
89	Forward and reverse genetics approaches to uncover metabolic aging pathways in <i>Caenorhabditis elegans</i> . <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 2697-2706.	1.8	28
90	Ribosomal protein gene RPL9 variants can differentially impair ribosome function and cellular metabolism. <i>Nucleic Acids Research</i> , 2020, 48, 770-787.	6.5	28

#	ARTICLE	IF	CITATIONS
91	Mannose-Binding Lectin Is Required for the Effective Clearance of Apoptotic Cells by Adipose Tissue Macrophages During Obesity. <i>Diabetes</i> , 2014, 63, 4143-4153.	0.3	27
92	Metabolomics and lipidomics in <i>Caenorhabditis elegans</i> using a single-sample preparation. <i>DMM Disease Models and Mechanisms</i> , 2021, 14, .	1.2	27
93	Nutritional ketosis improves exercise metabolism in patients with very long-chain acyl-CoA dehydrogenase deficiency. <i>Journal of Inherited Metabolic Disease</i> , 2020, 43, 787-799.	1.7	26
94	New life for antidiabetic drugs. <i>Nature</i> , 2010, 466, 443-444.	13.7	24
95	Electrophysiological Abnormalities in VLCAD Deficient hiPSC-Cardiomyocytes Can Be Improved by Lowering Accumulation of Fatty Acid Oxidation Intermediates. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2589.	1.8	24
96	The dynamics of cardiolipin synthesis post-mitochondrial fusion. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010, 1798, 1577-1585.	1.4	23
97	Ethnic differences in metabolite signatures and type 2 diabetes: a nested case-control analysis among people of South Asian, African and European origin. <i>Nutrition and Diabetes</i> , 2017, 7, 300.	1.5	23
98	Confounding factors from inducible systems for spatiotemporal gene expression regulation. <i>Journal of Cell Biology</i> , 2020, 219, .	2.3	23
99	Mitochondrial fission: firing up mitochondria in brown adipose tissue. <i>EMBO Journal</i> , 2014, 33, 401-402.	3.5	22
100	Recurring mutations in <i>RPL15</i> are linked to hydrops fetalis and treatment independence in Diamond-Blackfan anemia. <i>Haematologica</i> , 2018, 103, 949-958.	1.7	22
101	Identification of longevity compounds with minimized probabilities of side effects. <i>Biogerontology</i> , 2020, 21, 709-719.	2.0	22
102	Cardiolipin Molecular Species with Shorter Acyl Chains Accumulate in <i>Saccharomyces cerevisiae</i> Mutants Lacking the Acyl Coenzyme A-binding Protein Acb1p. <i>Journal of Biological Chemistry</i> , 2009, 284, 27609-27619.	1.6	21
103	Csde1 binds transcripts involved in protein homeostasis and controls their expression in an erythroid cell line. <i>Scientific Reports</i> , 2018, 8, 2628.	1.6	20
104	Translational Metabolism: A multidisciplinary approach towards precision diagnosis of inborn errors of metabolism in the omics era. <i>Journal of Inherited Metabolic Disease</i> , 2019, 42, 197-208.	1.7	20
105	The Antibiotic Doxycycline Impairs Cardiac Mitochondrial and Contractile Function. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4100.	1.8	20
106	The mouse metallomic landscape of aging and metabolism. <i>Nature Communications</i> , 2022, 13, 607.	5.8	18
107	Pharmaceutical and nutraceutical activation of FOXO3 for healthy longevity. <i>Ageing Research Reviews</i> , 2022, 78, 101621.	5.0	18
108	Aging selectively dampens oscillation of lipid abundance in white and brown adipose tissue. <i>Scientific Reports</i> , 2021, 11, 5932.	1.6	16

#	ARTICLE	IF	CITATIONS
109	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.	1.8	15
110	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.	1.5	15
111	IgG Subclasses Shape Cytokine Responses by Human Myeloid Immune Cells through Differential Metabolic Reprogramming. <i>Journal of Immunology</i> , 2020, 205, 3400-3407.	0.4	15
112	Adherence Affects Monocyte Innate Immune Function and Metabolic Reprogramming after Lipopolysaccharide Stimulation In Vitro. <i>Journal of Immunology</i> , 2021, 206, 827-838.	0.4	15
113	<i>HEATR3</i> variants impair nuclear import of uL18 (RPL5) and drive Diamond-Blackfan anemia. <i>Blood</i> , 2022, 139, 3111-3126.	0.6	15
114	Polar metabolomics in human muscle biopsies using a liquid-liquid extraction and full-scan LC-MS. <i>STAR Protocols</i> , 2022, 3, 101302.	0.5	15
115	Type 5 adenylyl cyclase disruption leads to enhanced exercise performance. <i>Aging Cell</i> , 2015, 14, 1075-1084.	3.0	13
116	mTOR-driven glycolysis governs induction of innate immune responses by bronchial epithelial cells exposed to the bacterial component flagellin. <i>Mucosal Immunology</i> , 2021, 14, 594-604.	2.7	13
117	NAD ⁺ -Precursor Supplementation With L-Tryptophan, Nicotinic Acid, and Nicotinamide Does Not Affect Mitochondrial Function or Skeletal Muscle Function in Physically Compromised Older Adults. <i>Journal of Nutrition</i> , 2021, 151, 2917-2931.	1.3	13
118	Prediction of VLCAD deficiency phenotype by a metabolic fingerprint in newborn screening bloodspots. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020, 1866, 165725.	1.8	12
119	Sitting less elicits metabolic responses similar to exercise and enhances insulin sensitivity in postmenopausal women. <i>Diabetologia</i> , 2021, 64, 2817-2828.	2.9	12
120	Mitochondrial ubiquinone-mediated longevity is marked by reduced cytoplasmic mRNA translation. <i>Life Science Alliance</i> , 2018, 1, e201800082.	1.3	12
121	Sirtuin activation as a therapeutic approach against inborn errors of metabolism. <i>Journal of Inherited Metabolic Disease</i> , 2016, 39, 565-572.	1.7	11
122	Subclinical effects of long-chain fatty acid β -oxidation deficiency on the adult heart: A case-control magnetic resonance study. <i>Journal of Inherited Metabolic Disease</i> , 2020, 43, 969-980.	1.7	11
123	Longevity pathways are associated with human ovarian ageing. <i>Human Reproduction Open</i> , 2021, 2021, hoab020.	2.3	11
124	An improved functional assay in blood spot to diagnose Barth syndrome using the monolysocardiolipin/cardioliipin ratio. <i>Journal of Inherited Metabolic Disease</i> , 2022, 45, 29-37.	1.7	11
125	Time-restricted feeding during the inactive phase abolishes the daily rhythm in mitochondrial respiration in rat skeletal muscle. <i>FASEB Journal</i> , 2022, 36, e22133.	0.2	11
126	AMC-Bio-Artificial Liver culturing enhances mitochondrial biogenesis in human liver cell lines: The role of oxygen, medium perfusion and 3D configuration. <i>Mitochondrion</i> , 2018, 39, 30-42.	1.6	9

#	ARTICLE	IF	CITATIONS
127	Quantification of Myocardial Creatine and Triglyceride Content in the Human Heart: Precision and Accuracy of in vivo Proton Magnetic Resonance Spectroscopy. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 54, 411-420.	1.9	9
128	A review of treatment modalities in gyrate atrophy of the choroid and retina (GACR). <i>Molecular Genetics and Metabolism</i> , 2021, 134, 96-116.	0.5	9
129	Inhibition of the neuromuscular acetylcholine receptor with atracurium activates FOXO/DAF-16-induced longevity. <i>Aging Cell</i> , 2021, 20, e13381.	3.0	9
130	Multi-omics analysis identifies essential regulators of mitochondrial stress response in two wild-type <i>C.Âlegans</i> strains. <i>IScience</i> , 2022, 25, 103734.	1.9	9
131	Long noncoding RNAs in cardiometabolic disorders. <i>FEBS Letters</i> , 2022, 596, 1367-1387.	1.3	9
132	Human alveolar macrophages do not rely on glucose metabolism upon activation by lipopolysaccharide. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2022, 1868, 166488.	1.8	9
133	Atypical Clinical Presentations of TAZ Mutations: An Underdiagnosed Cause of Growth Retardation?. <i>JIMD Reports</i> , 2015, 29, 89-93.	0.7	8
134	Mitochondrial cross-compartmental signalling to maintain proteostasis and longevity. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190414.	1.8	8
135	Exploring the metabolic fate of medium-chain triglycerides in healthy individuals using a stable isotope tracer. <i>Clinical Nutrition</i> , 2021, 40, 1396-1404.	2.3	8
136	Circadian misalignment disturbs the skeletal muscle lipidome in healthy young men. <i>FASEB Journal</i> , 2021, 35, e21611.	0.2	8
137	Biological Age Prediction From Wearable Device Movement Data Identifies Nutritional and Pharmacological Interventions for Healthy Aging. <i>Frontiers in Aging</i> , 2021, 2, .	1.2	8
138	Identification of enzymes involved in oxidation of phenylbutyrate. <i>Journal of Lipid Research</i> , 2017, 58, 955-961.	2.0	7
139	Commentaries on Viewpoint: The rigorous study of exercise adaptations: Why mRNA might not be enough. <i>Journal of Applied Physiology</i> , 2016, 121, 597-600.	1.2	6
140	Ketones and inborn errors of metabolism: old friends revisited. <i>Journal of Inherited Metabolic Disease</i> , 2017, 40, 3-4.	1.7	5
141	Electrophysiological Abnormalities in VLCAD Deficient hiPSC-Cardiomyocytes Do not Improve with Carnitine Supplementation. <i>Frontiers in Pharmacology</i> , 2020, 11, 616834.	1.6	5
142	The female mouse is resistant to mild vitamin B3 deficiency. <i>European Journal of Nutrition</i> , 2022, 61, 329-340.	1.8	5
143	Genetic, biochemical and clinical spectrum of patients with mitochondrial trifunctional protein deficiency identified after introduction of newborn screening in the Netherlands. <i>Journal of Inherited Metabolic Disease</i> , 2022, , .	1.7	5
144	Meeting Report: Aging Research and Drug Discovery. <i>Aging</i> , 2022, 14, 530-543.	1.4	4

#	ARTICLE	IF	CITATIONS
145	Reduced ech-6 expression attenuates fat-induced lifespan shortening in <i>C. elegans</i> . <i>Scientific Reports</i> , 2022, 12, 3350.	1.6	4
146	Neonatal Long-Chain 3-Ketoacyl-CoA Thiolase deficiency: Clinical-biochemical phenotype, sodium-D,L-3-hydroxybutyrate treatment experience and cardiac evaluation using speckle echocardiography. <i>Molecular Genetics and Metabolism Reports</i> , 2022, 31, 100873.	0.4	3
147	Sirtuins and Aging. , 2016, , 213-227.		2
148	A uniparental isodisomy event introducing homozygous pathogenic variants drives a multisystem metabolic disorder. <i>Journal of Physical Education and Sports Management</i> , 2019, 5, a004457.	0.5	2
149	HIF-1 α Stabilization in Flagellin-Stimulated Human Bronchial Cells Impairs Barrier Function. <i>Cells</i> , 2022, 11, 391.	1.8	2
150	Personalized medicine for rare neurogenetic disorders: can we make it happen?. <i>Cold Spring Harbor Molecular Case Studies</i> , 2022, 8, .	0.7	2
151	Mutations in LPIN1 Cause Recurrent Acute Myoglobinuria in Childhood. <i>American Journal of Human Genetics</i> , 2009, 84, 95.	2.6	1
152	Enzyme engineering to fight mitochondrial diseases. <i>Nature Metabolism</i> , 2020, 2, 215-216.	5.1	1
153	Metabolic adaptations of human alveolar macrophages upon activation by lipopolysaccharide in vivo. <i>Scandinavian Journal of Immunology</i> , 2021, 93, e13011.	1.3	1
154	Fetal against fatal: In utero genome editing to prevent metabolic disease. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	1
155	The two-faced progeria gene and its implications in aging and metabolism. <i>EMBO Reports</i> , 2014, 15, 470-471.	2.0	0
156	NAD+ as a Pharmacological Tool to Boost Sirtuin Activity. , 2016, , 29-40.		0
157	Preface - Animal models for aging. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 2679.	1.8	0
158	Underpowered or negative? A crucial distinction. Reply to Dollerup OL, Treebak JT, Jessen N [letter]. <i>Diabetologia</i> , 2019, 62, 1096-1096.	2.9	0
159	A Decade of Newborn Screening for Very-Long-Chain Acyl-CoA Dehydrogenase Deficiency (VLCADD): Benefits, Complications and the Need for Long-Term Follow-Up. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
160	Sweet skin remedy. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	0
161	Fat up to BAT. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	0
162	A lncRNA that regulates cholesterol homeostasis. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	0

#	ARTICLE	IF	CITATIONS
163	Bipotent Liver Progenitors Depend on Glycolysis and Mitochondrial Pyruvate Oxidation for Stem Cell Functions. SSRN Electronic Journal, 0, , .	0.4	0
164	Reduced <i>ech-6</i> Expression Attenuates Fat-Induced Premature Aging in <i>C. Elegans</i> . SSRN Electronic Journal, 0, , .	0.4	0