Howard T Jacobs, Howy Jacobs

List of Publications by Year
in descending order

250	13,915	36303 51	22832 112
papers	citations	h-index	g-index

265	265	265	13293
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Premature ageing in mice expressing defective mitochondrial DNA polymerase. Nature, 2004, 429, 417-423.	27.8	2,318
2	Succinate Dehydrogenase Supports Metabolic Repurposing of Mitochondria to Drive Inflammatory Macrophages. Cell, 2016, 167, 457-470.e13.	28.9	1,396
3	Human mitochondrial DNA deletions associated with mutations in the gene encoding Twinkle, a phage T7 gene 4-like protein localized in mitochondria. Nature Genetics, 2001, 28, 223-231.	21.4	803
4	Somatic mtDNA mutations cause aging phenotypes without affecting reactive oxygen species production. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 17993-17998.	7.1	491
5	Coupled Leading- and Lagging-Strand Synthesis of Mammalian Mitochondrial DNA. Cell, 2000, 100, 515-524.	28.9	372
6	Nucleotide sequence and gene organization of sea urchin mitochondrial DNA. Journal of Molecular Biology, 1988, 202, 185-217.	4.2	351
7	Mitochondria are physiologically maintained at close to 50 Â°C. PLoS Biology, 2018, 16, e2003992.	5.6	295
8	A novel mitochondrial point mutation in a maternal pedigree with sensorineural deafness. Human Mutation, 1994, 3, 243-247.	2.5	252
9	Biased Incorporation of Ribonucleotides on the Mitochondrial L-Strand Accounts for Apparent Strand-Asymmetric DNA Replication. Cell, 2002, 111, 495-505.	28.9	238
10	Mitochondrial medicine: A metabolic perspective on the pathology of oxidative phosphorylation disorders. Cell Metabolism, 2006, 3, 9-13.	16.2	210
11	Replication of vertebrate mitochondrial DNA entails transient ribonucleotide incorporation throughout the lagging strand. EMBO Journal, 2006, 25, 5358-5371.	7.8	205
12	Different cellular backgrounds confer a marked advantage to either mutant or wild-type mitochondrial genomes.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 6562-6566.	7.1	198
13	Mammalian Mitochondrial DNA Replicates Bidirectionally from an Initiation Zone. Journal of Biological Chemistry, 2003, 278, 50961-50969.	3.4	174
14	Mutations at the mitochondrial DNA polymerase (POLG) locus associated with male infertility. Nature Genetics, 2001, 29, 261-262.	21.4	173
15	Human mitochondrial transcription factor A induces a U-turn structure in the light strand promoter. Nature Structural and Molecular Biology, 2011, 18, 1281-1289.	8.2	168
16	In Vivo Functional Analysis of the Human Mitochondrial DNA Polymerase POLG Expressed in Cultured Human Cells. Journal of Biological Chemistry, 2000, 275, 24818-24828.	3.4	166
17	Expression of the Ciona intestinalis Alternative Oxidase (AOX) in Drosophila Complements Defects in Mitochondrial Oxidative Phosphorylation. Cell Metabolism, 2009, 9, 449-460.	16.2	156
18	Stabilization of Hypoxia-inducible Factor-1Î± Protein in Hypoxia Occurs Independently of Mitochondrial Reactive Oxygen Species Production. Journal of Biological Chemistry, 2010, 285, 31277-31284.	3.4	154

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19	Alterations to the expression level of mitochondrial transcription factor A, TFAM, modify the mode of mitochondrial DNA replication in cultured human cells. Nucleic Acids Research, 2006, 34, 5815-5828.	14.5	151
20	A Bidirectional Origin of Replication Maps to the Major Noncoding Region of Human Mitochondrial DNA. Molecular Cell, 2005, 18, 651-662.	9.7	148
21	Eukaryotic gene expression: Very short repeats and coordinate induction of genes. Nature, 1983, 301, 468-470.	27.8	135
22	Expression of the yeast NADH dehydrogenase Ndi1 in Drosophila confers increased lifespan independently of dietary restriction. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 9105-9110.	7.1	132
23	Mitochondrial DNA sequences in the nuclear genome of Strongylocentrotus pupuratus. Journal of Molecular Biology, 1983, 165, 609-632.	4.2	115
24	Mitochondrial DNA mutations in patients with postlingual, nonsyndromic hearing impairment. European Journal of Human Genetics, 2005, 13, 26-33.	2.8	110
25	Allotopic expression of a mitochondrial alternative oxidase confers cyanide resistance to human cell respiration. EMBO Reports, 2006, 7, 341-345.	4.5	110
26	Human Heart Mitochondrial DNA Is Organized in Complex Catenated Networks Containing Abundant Four-way Junctions and Replication Forks. Journal of Biological Chemistry, 2009, 284, 21446-21457.	3.4	110
27	Mammalian Mitochondrial DNA Replication Intermediates Are Essentially Duplex but Contain Extensive Tracts of RNA/DNA Hybrid. Journal of Molecular Biology, 2010, 397, 1144-1155.	4.2	110
28	Nuclear genes and mitochondrial translation: a new class of genetic disease. Trends in Genetics, 2005, 21, 312-314.	6.7	109
29	Mitochondrial electron transport chain is necessary for NLRP3 inflammasome activation. Nature Immunology, 2022, 23, 692-704.	14.5	107
30	The mitochondrial theory of aging: dead or alive?. Aging Cell, 2003, 2, 11-17.	6.7	106
31	A tRNA suppressor mutation in human mitochondria. Nature Genetics, 1998, 18, 350-353.	21.4	103
32	A Mitochondrial Ribosomal and RNA Decay Pathway Blocks Cell Proliferation. Current Biology, 2013, 23, 535-541.	3.9	103
33	Mitochondrial ROS production correlates with, but does not directly regulate lifespan in drosophila. Aging, 2010, 2, 200-223.	3.1	101
34	Alternative Oxidase Expression in the Mouse Enables Bypassing Cytochrome c Oxidase Blockade and Limits Mitochondrial ROS Overproduction. PLoS Genetics, 2013, 9, e1003182.	3.5	96
35	No Influence of Indy on Lifespan in Drosophila after Correction for Genetic and Cytoplasmic Background Effects. PLoS Genetics, 2007, 3, e95.	3.5	95
36	The mitochondrial transcription termination factor mTERF modulates replication pausing in human mitochondrial DNA. Nucleic Acids Research, 2007, 35, 6458-6474.	14.5	95

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37	Mitochondrial DNA replication proceeds via a â€˜bootlaceâ€™ mechanism involving the incorporation of processed transcripts. Nucleic Acids Research, 2013, 41, 5837-5850.	14.5	93
38	Prominent mitochondrial DNA recombination intermediates in human heart muscle. EMBO Reports, 2001, 2, 1007-1012.	4.5	92
39	Behaviour of a population of partially duplicated mitochondrial DNA molecules in cell culture: segregation, maintenance and recombination dependent upon nuclear background. Human Molecular Genetics, 1997, 6, 1251-1260.	2.9	91
40	Expression of the alternative oxidase complements cytochrome c oxidase deficiency in human cells. EMBO Molecular Medicine, 2009, 1, 30-36.	6.9	89
41	No sex please, we're mitochondria: a hypothesis on the somatic unit of inheritance of mammalian mtDNA. BioEssays, 2000, 22, 564-572.	2.5	88
42	technical knockout, a Drosophila Model of Mitochondrial Deafness. Genetics, 2001, 159, 241-254.	2.9	88
43	Disorders of mitochondrial protein synthesis. Human Molecular Genetics, 2003, 12, R293-R301.	2.9	84
44	Primer retention owing to the absence of RNase H1 is catastrophic for mitochondrial DNA replication. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9334-9339.	7.1	75
45	Perturbed Redox Signaling Exacerbates a Mitochondrial Myopathy. Cell Metabolism, 2018, 28, 764-775.e5.	16.2	70
46	Wobble modification deficiency in mutant tRNAs in patients with mitochondrial diseases. FEBS Letters, 2005, 579, 2948-2952.	2.8	68
47	Gene Expression in a Drosophila Model of Mitochondrial Disease. PLoS ONE, 2010, 5, e8549.	2.5	64
48	Response: The mitochondrial DNA replication bubble has not burst. Trends in Biochemical Sciences, 2003, 28, 355-356.	7.5	62
49	Conserved tRNA gene cluster in starfish mitochondrial DNA. Current Genetics, 1989, 15, 193-206.	1.7	57
50	Mitochondrial DNA â€“ all things bad?. Trends in Genetics, 1999, 15, 91-93.	6.7	57
51	Expression of alternative oxidase in Drosophila ameliorates diverse phenotypes due to cytochrome oxidase deficiency. Human Molecular Genetics, 2014, 23, 2078-2093.	2.9	57
52	Genotypic Stability, Segregation and Selection in Heteroplasmic Human Cell Lines Containing np 3243 Mutant mtDNA. Genetics, 2000, 154, 363-380.	2.9	57
53	Alternative oxidaseâ€mediated respiration prevents lethal mitochondrial cardiomyopathy. EMBO Molecular Medicine, 2019, 11, .	6.9	53
54	Alternative oxidase rescues mitochondria-mediated dopaminergic cell loss in Drosophila. Human Molecular Genetics, 2012, 21, 2698-2712.	2.9	51

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55	Molecular Phenotype of a Human Lymphoblastoid Cell-line Homoplasmic for the np 7445 Deafness-associated Mitochondrial Mutation. Human Molecular Genetics, 1997, 6, 443-449.	2.9	49
56	Engineering the alternative oxidase gene to better understand and counteract mitochondrial defects: state of the art and perspectives. British Journal of Pharmacology, 2014, 171, 2243-2249.	5.4	49
57	The 7472insC Mitochondrial DNA Mutation Impairs the Synthesis and Extent of Aminoacylation of tRNASer(UCN) but Not Its Structure or Rate of Turnover. Journal of Biological Chemistry, 2002, 277, 22240-22250.	3.4	47
58	Sea urchin egg mitochondrial DNA contains a short displacement loop (D-loop) in the replication origin region. Nucleic Acids Research, 1989, 17, 8949-8965.	14.5	46
59	The human homologue of the yeast mitochondrial AAA metalloprotease Yme1p complements a yeastyme1disruptant. FEBS Letters, 2000, 478, 267-270.	2.8	46
60	Novel Repetitive Structures, Deviant Protein-Encoding Sequences andUnidentified ORFs in the Mitochondrial Genome of the BrachiopodLingula anatina. Journal of Molecular Evolution, 2005, 61, 36-53.	1.8	46
61	Human mitochondrial mTERF wraps around DNA through a left-handed superhelical tandem repeat. Nature Structural and Molecular Biology, 2010, 17, 891-893.	8.2	46
62	Glucose Modulates Respiratory Complex I Activity in Response to Acute Mitochondrial Dysfunction. Journal of Biological Chemistry, 2012, 287, 38729-38740.	3.4	46
63	Broad AOX expression in a genetically tractable mouse model does not disturb normal physiology. DMM Disease Models and Mechanisms, 2017, 10, 163-171.	2.4	46
64	Molecular Phenotype of the np 7472 Deafness-Associated Mitochondrial Mutation in Osteosarcoma Cell Cybrids. Human Molecular Genetics, 1999, 8, 2275-2283.	2.9	44
65	Developmental and Pathological Changes in the Human Cardiac Muscle Mitochondrial DNA Organization, Replication and Copy Number. PLoS ONE, 2010, 5, e10426.	2.5	43
66	Metazoan nuclear genes for mitoribosomal protein S12. Gene, 1997, 204, 55-62.	2.2	42
67	Complete nucleotide sequences of the nuclear pseudogenes for cytochrome oxidase subunit I and the large mitochondrial ribosomal RNA in the sea urchin Strongylocentrotus purpuratus. Journal of Molecular Biology, 1986, 187, 509-527.	4.2	41
68	Mitochondrial Deafness. Annals of Medicine, 1997, 29, 483-491.	3.8	41
69	Respiratory chain alternative enzymes as tools to better understand and counteract respiratory chain deficiencies in human cells and animals. Physiologia Plantarum, 2009, 137, 362-370.	5.2	41
70	Familial mitochondrial DNA depletion in liver: haplotype analysis of candidate genes. Human Genetics, 1998, 102, 327-331.	3.8	40
71	Bypassing mitochondrial complex III using alternative oxidase inhibits acute pulmonary oxygen sensing. Science Advances, 2020, 6, eaba0694.	10.3	39
72	Analysis of the trinucleotide CAG repeat from the human mitochondrial DNA polymerase gene in healthy and diseased individuals. European Journal of Human Genetics, 1999, 7, 140-146.	2.8	38

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73	Mitochondrial genotype modulates mtDNA copy number and organismal phenotype in Drosophila. Mitochondrion, 2017, 34, 75-83.	3.4	38
74	A Rolling Circle Replication Mechanism Produces Multimeric Lariats of Mitochondrial DNA in Caenorhabditis elegans. PLoS Genetics, 2015, 11, e1004985.	3.5	37
75	Alternative Oxidase Attenuates Cigarette Smokeâ€“induced Lung Dysfunction and Tissue Damage. American Journal of Respiratory Cell and Molecular Biology, 2019, 60, 515-522.	2.9	37
76	Acquisition of the wobble modification in mitochondrial tRNALeu(CUN) bearing the G12300A mutation suppresses the MELAS molecular defect. Human Molecular Genetics, 2006, 15, 897-904.	2.9	36
77	Overexpression of MTERFD1 or MTERFD3 impairs the completion of mitochondrial DNA replication. Molecular Biology Reports, 2011, 38, 1321-1328.	2.3	36
78	Modelling in Escherichia coli of mutations in mitoribosomal protein S12: novel mutant phenotypes of rpsL. Molecular Microbiology, 1999, 31, 1735-1746.	2.5	33
79	Comparative Genetics of Functional Trinucleotide Tandem Repeats in Humans and Apes. Journal of Molecular Evolution, 2004, 59, 329-339.	1.8	33
80	Screen for mitochondrial <scp>DNA</scp> copy number maintenance genes reveals essential role for <scp>ATP</scp> synthase. Molecular Systems Biology, 2014, 10, 734.	7.2	33
81	The mitochondrial inner membrane AAA metalloprotease family in metazoans. FEBS Letters, 2000, 481, 91-95.	2.8	32
82	Mitochondrial transcription termination factor 1 directs polar replication fork pausing. Nucleic Acids Research, 2016, 44, 5732-5742.	14.5	32
83	The alternative oxidase, a tool for compensating cytochrome c oxidase deficiency in human cells. Physiologia Plantarum, 2009, 137, 427-434.	5.2	31
84	Unique features of DNA replication in mitochondria: A functional and evolutionary perspective. BioEssays, 2014, 36, 1024-1031.	2.5	31
85	Expression of the alternative oxidase mitigates beta-amyloid production and toxicity in model systems. Free Radical Biology and Medicine, 2016, 96, 57-66.	2.9	31
86	Systematic Segregation to Mutant Mitochondrial DNA and Accompanying Loss of Mitochondrial DNA in Human NT2 Teratocarcinoma Cybrids. Genetics, 2005, 170, 1879-1885.	2.9	29
87	Analysis of Replication Intermediates Indicates That Drosophila melanogaster Mitochondrial DNA Replicates by a Strand-Coupled Theta Mechanism. PLoS ONE, 2013, 8, e53249.	2.5	29
88	Post-transcriptional regulation of messenger abundance in rat liver and hepatoma. Nucleic Acids Research, 1980, 8, 3087-3104.	14.5	27
89	The bidirectional promoter of two genes for the mitochondrial translational apparatus in mouse is regulated by an array of CCAAT boxes interacting with the transcription factor NF-Y. Nucleic Acids Research, 2007, 35, 664-677.	14.5	27
90	Phenotypic rescue of aDrosophilamodel of mitochondrial ANT1 disease. DMM Disease Models and Mechanisms, 2014, 7, 635-48.	2.4	27

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91	Mitochondrial Dysfunction Plus High-Sugar Diet Provokes a Metabolic Crisis That Inhibits Growth. PLoS ONE, 2016, 11, e0145836.	2.5	27
92	Mitochondrial disease in flies. Biochimica Et Biophysica Acta - Bioenergetics, 2004, 1659, 190-196.	1.0	26
93	Two distinct, sequence-specific DNA-binding proteins interact independently with the major replication pause region of sea urchin mtDNA. Nucleic Acids Research, 1993, 21, 2801-2808.	14.5	25
94	The relationship between somatic mtDNA rearrangements, human heart disease and aging. Human Molecular Genetics, 2002, 11, 317-324.	2.9	25
95	dj-1Î² regulates oxidative stress, insulin-like signaling and development in Drosophila melanogaster. Cell Cycle, 2012, 11, 3876-3886.	2.6	25
96	Expression of the Gene for Mitoribosomal Protein S12 Is Controlled in Human Cells at the Levels of Transcription, RNA Splicing, and Translation. Journal of Biological Chemistry, 1999, 274, 31853-31862.	3.4	24
97	Isolation and Purification of Rat Hepatoma Nuclei Active in the Transport of Messenger RNA in vitro. FEBS Journal, 1982, 121, 597-607.	0.2	23
98	The 7472insC mtDNA mutation impairs 5â€² and 3â€² processing of tRNASer(UCN). Biochemical and Biophysical Research Communications, 2004, 322, 803-813.	2.1	23
99	DNA conformationâ€dependent activities of human mitochondrial RNA polymerase. Genes To Cells, 2009, 14, 1029-1042.	1.2	23
100	A Cytoplasmic Suppressor of a Nuclear Mutation Affecting Mitochondrial Functions in Drosophila. Genetics, 2012, 192, 483-493.	2.9	23
101	Making mitochondrial mutants. Trends in Genetics, 2001, 17, 653-660.	6.7	22
102	A prevalent POLG CAG microsatellite length allele in humans and African great apes. Mammalian Genome, 2004, 15, 492-502.	2.2	22
103	The Alternative Oxidase AOX Does Not Rescue the Phenotype oftko25tMutant Flies. G3: Genes, Genomes, Genetics, 2014, 4, 2013-2021.	1.8	22
104	Structural similarities between a mitochondrially encoded polypeptide and a family of prokaryotic respiratory toxins involved in plasmid maintenance suggest a novel mechanism for the evolutionary maintenance of mitochondrial DNA. Journal of Molecular Evolution, 1991, 32, 333-339.	1.8	21
105	Alternative respiratory chain enzymes: Therapeutic potential and possible pitfalls. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2019, 1865, 854-866.	3.8	21
106	Chromosomal Locations of Three Human Nuclear Genes (RPSM12, TUFM, and AFG3L1) Specifying Putative Components of the Mitochondrial Gene Expression Apparatus. Genomics, 1998, 48, 384-388.	2.9	20
107	The Dominant Cold-Sensitive Out-Cold Mutants of Drosophila melanogaster Have Novel Missense Mutations in the Voltage-Gated Sodium Channel Gene paralytic. Genetics, 2008, 180, 873-884.	2.9	20
108	Transcripts of three mitochondrial genes in the RNA of sea urchin eggs and embryos. Developmental Biology, 1983, 97, 500-505.	2.0	19

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109	Gene dosage and selective expression modify phenotype in a Drosophila model of human mitochondrial disease. Mitochondrion, 2003, 3, 83-96.	3.4	19
110	Therapies in inborn errors of oxidative metabolism. Trends in Endocrinology and Metabolism, 2012, 23, 488-495.	7.1	19
111	Characterization of a high-affinity binding site for a DNA-binding protein from sea urchin embryo mitochondria. Nucleic Acids Research, 1993, 21, 811-816.	14.5	18
112	Effects on mitochondrial transcription of manipulating mTERF protein levels in cultured human HEK293 cells. BMC Molecular Biology, 2010, 11, 72.	3.0	17
113	Mitochondrial Transcription Terminator Family Members mTTF and mTerf5 Have Opposing Roles in Coordination of mtDNA Synthesis. PLoS Genetics, 2013, 9, e1003800.	3.5	17
114	Long-Extension PCR to Detect Deleted Mitochondrial DNA Molecules Is Compromized by Technical Artefacts. Biochemical and Biophysical Research Communications, 1999, 254, 507-514.	2.1	16
115	Ciona intestinalis NADH dehydrogenase NDX confers stress-resistance and extended lifespan on Drosophila. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 1861-1869.	1.0	16
116	Phenotypic suppression of the Drosophila mitochondrial disease-like mutant tko25t by duplication of the mutant gene in its natural chromosomal context. Mitochondrion, 2009, 9, 353-363.	3.4	15
117	Diiron centre mutations in Ciona intestinalis alternative oxidase abolish enzymatic activity and prevent rescue of cytochrome oxidase deficiency in flies. Scientific Reports, 2016, 5, 18295.	3.3	15
118	Respiratory chain signalling is essential for adaptive remodelling following cardiac ischaemia. Journal of Cellular and Molecular Medicine, 2020, 24, 3534-3548.	3.6	15
119	Immunochemical Characterization of a Novel Mitochondrially Located Protein Encoded by a Nuclear Gene within the DFNB8/10 Critical Region on 21q22.3. Biochemical and Biophysical Research Communications, 1997, 238, 806-810.	2.1	14
120	Expression of the nuclear gene encoding mitochondrial ATP synthase subunit alpha in early development of Drosophila and sea urchin. Molecular Biology Reports, 1998, 25, 87-94.	2.3	14
121	Expression of Ciona intestinalis AOX causes male reproductive defects in Drosophila melanogaster. BMC Developmental Biology, 2017, 17, 9.	2.1	14
122	Polyadenylation and degradation of structurally abnormal mitochondrial tRNAs in human cells. Nucleic Acids Research, 2018, 46, 5209-5226.	14.5	14
123	Developmental arrest in Drosophila melanogaster caused by mitochondrial DNA replication defects cannot be rescued by the alternative oxidase. Scientific Reports, 2018, 8, 10882.	3.3	14
124	RNase H1 promotes replication fork progression through oppositely transcribed regions of Drosophila mitochondrial DNA. Journal of Biological Chemistry, 2019, 294, 4331-4344.	3.4	14
125	Lethal Interaction of Nuclear and Mitochondrial Genotypes inDrosophila melanogaster. G3: Genes, Genomes, Genetics, 2019, 9, 2225-2234.	1.8	13
126	Alternative NADH dehydrogenase extends lifespan and increases resistance to xenobiotics in Drosophila. Biogerontology, 2020, 21, 155-171.	3.9	13

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127	Regulation of growth in Drosophila melanogaster: the roles of mitochondrial metabolism. Journal of Biochemistry, 2020, 167, 267-277.	1.7	13
128	NF-Y influences directionality of transcription from the bidirectional Mrps12/Sarsm promoter in both mouse and human cells. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2009, 1789, 432-442.	1.9	12
129	Ligand-Bound GeneSwitch Causes Developmental Aberrations in Drosophila that Are Alleviated by the Alternative Oxidase. G3: Genes, Genomes, Genetics, 2016, 6, 2839-2846.	1.8	12
130	What physiological role(s) does the alternative oxidase perform in animals?. Biochimica Et Biophysica Acta - Bioenergetics, 2022, 1863, 148556.	1.0	12
131	The dangers of extended PCR in the clinic. Nature Medicine, 1999, 5, 965-966.	30.7	11
132	In vivo mitochondrial DNA-protein interactions in sea urchin eggs and embryos. Current Genetics, 1999, 34, 449-458.	1.7	11
133	Novel coding-region polymorphisms in mitochondrial seryl-tRNA synthetase (SARSM) and mitoribosomal protein S12 (RPMS12) genes in DFNA4 autosomal dominant deafness families. Human Mutation, 2001, 17, 433-434.	2.5	11
134	Modulation of Mrps12/Sarsm promoter activity in response to mitochondrial stress. Biochimica Et Biophysica Acta - Molecular Cell Research, 2008, 1783, 2352-2362.	4.1	11
135	Postdockin' in the free world. EMBO Reports, 2010, 11, 1-1.	4.5	11
136	Genome wide study of NF-Y type CCAAT boxes in unidirectional and bidirectional promoters in human and mouse. Journal of Theoretical Biology, 2011, 281, 74-83.	1.7	11
137	Î² carbonic anhydrase is required for female fertility in Drosophila melanogaster. Frontiers in Zoology, 2015, 12, 19.	2.0	11
138	Expression of the Alternative Oxidase Influences Jun N-Terminal Kinase Signaling and Cell Migration. Molecular and Cellular Biology, 2018, 38, .	2.3	11
139	Hyperoxia but not AOX expression mitigates pathological cardiac remodeling in a mouse model of inflammatory cardiomyopathy. Scientific Reports, 2019, 9, 12741.	3.3	11
140	Apparent functional independence of the mitochondrial and nuclear transcription systems in cultured human cells. Molecular Genetics and Genomics, 1994, 245, 760-768.	2.4	10
141	The study of cell-death proteins in the outer mitochondrial membrane by chemical cross-linking. Biochemical Journal, 1997, 325, 321-324.	3.7	10
142	Structural rearrangements in the mitochondrial genome of Drosophila melanogaster induced by elevated levels of the replicative DNA helicase. Nucleic Acids Research, 2018, 46, 3034-3046.	14.5	10
143	Post-transcriptional control of messenger abundance. Molecular Biology Reports, 1981, 7, 159-162.	2.3	8
144	Do ribosomes regulate mitochondrial RNA synthesis?. BioEssays, 1989, 11, 27-34.	2.5	8

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145	Phenotypic effects of dietary stress in combination with a respiratory chain bypass in mice. Physiological Reports, 2019, 7, e14159.	1.7	8
146	The alternative oxidase (AOX) increases sulphide tolerance in the highly invasive marine invertebrateCiona intestinalis. Journal of Experimental Biology, 2021, 224, .	1.7	8
147	Cyanide resistant respiration and the alternative oxidase pathway: A journey from plants to mammals. Biochimica Et Biophysica Acta - Bioenergetics, 2022, 1863, 148567.	1.0	8
148	The V368i mutation in Twinkle does not segregate with adPEO. Annals of Neurology, 2003, 53, 278-278.	5.3	7
149	From and to a very grey area. EMBO Reports, 2011, 12, 479-479.	4.5	7
150	Alternative oxidase confers nutritional limitation on Drosophila development. Journal of Experimental Zoology Part A: Ecological and Integrative Physiology, 2019, 331, 341-356.	1.9	7
151	Manipulating mtDNA in vivo reprograms metabolism via novel response mechanisms. PLoS Genetics, 2019, 15, e1008410.	3.5	7
152	The selfish organelle. Trends in Genetics, 1987, 3, 337-341.	6.7	6
153	Nuclear expression of mitochondrial genes implicated in human encephalomyopathies. Biochemical Society Transactions, 1994, 22, 413S-413S.	3.4	6
154	Rebuttal to Pak et al.: New data, old chestnuts. Aging Cell, 2003, 2, 19-20.	6.7	6
155	Rise of the planet. EMBO Reports, 2013, 14, 1-1.	4.5	6
156	Oncogenes, mitochondria and immortality. Current Biology, 1991, 1, 94-96.	3.9	5
157	Top Doc. EMBO Reports, 2011, 12, 1-1.	4.5	5
158	Alternative oxidase encoded by sequence-optimized and chemically-modified RNA transfected into mammalian cells is catalytically active. Gene Therapy, 2022, 29, 655-664.	4.5	5
159	Characterisation ofSaccharomyces cerevisiae genes encoding ribosomal protein YL6. Molecular Genetics and Genomics, 1995, 247, 247-254.	2.4	4
160	Xenotopic expression of alternative electron transport enzymes in animal mitochondria and their impact in health and disease. Cell Biology International, 2018, 42, 664-669.	3.0	4
161	Mitochondrial dysfunction generates a growth-restraining signal linked to pyruvate inDrosophilalarvae. Fly, 2019, 13, 12-28.	1.7	4
162	Minimal effects ofspargel(PGC-1) overexpression in aDrosophilamitochondrial disease model. Biology Open, 2019, 8, .	1.2	4

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163	A mouse model of mtDNA disease. Trends in Genetics, 2000, 16, 487.	6.7	3
164	Dear Minister. EMBO Reports, 2009, 10, 533-533.	4.5	3
165	Short is sweet. EMBO Reports, 2009, 10, 935-935.	4.5	3
166	Pay to cite. EMBO Reports, 2009, 10, 1067-1067.	4.5	3
167	Can't pay, must pay. EMBO Reports, 2010, 11, 897-897.	4.5	3
168	Howyland. EMBO Reports, 2013, 14, 481-481.	4.5	3
169	Something rotten. EMBO Reports, 2014, 15, 817-817.	4.5	3
170	Effects on Dopaminergic Neurons Are Secondary in COX-Deficient Locomotor Dysfunction in Drosophila. IScience, 2020, 23, 101362.	4.1	3
171	Nucleotide sequence and gene organization of sea urchin mitochondrial DNA. Journal of Molecular Biology, 1990, 211, 663.	4.2	2
172	Mitochondrial base prediction. Nature, 1991, 351, 194-194.	27.8	2
173	The relationship between mRNA half-life and gene function in the yeast Saccharomyces cerevisiae. Gene, 1995, 166, 145-149.	2.2	2
174	Heteroplasmic segregation associated with trisomy-9 in cultured human cells. Somatic Cell and Molecular Genetics, 1999, 25, 263-274.	0.7	2
175	Working for the clampdown. EMBO Reports, 2009, 10, 1281-1281.	4.5	2
176	All Chinese to me. EMBO Reports, 2012, 13, 91-91.	4.5	2
177	I'm a teenage lobotomy. EMBO Reports, 2014, 15, 619-619.	4.5	2
178	No more Mr Nasty. EMBO Reports, 2014, 15, 1103-1103.	4.5	2
179	Intracellular vesicle trafficking plays an essential role in mitochondrial quality control. Molecular Biology of the Cell, 2018, 29, 809-819.	2.1	2
180	In search of El DORAdo. EMBO Reports, 2021, 22, e52516.	4.5	2

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181	Freelancer. EMBO Reports, 2021, 22, e53194.	4.5	2
182	At the cliff's edge. EMBO Reports, 2012, 13, 577-577.	4.5	2
183	The most unkindest cut. EMBO Reports, 2021, 22, e54200.	4.5	2
184	The transcription factor network of E. coli steers global responses to shifts in RNAP concentration. Nucleic Acids Research, 0, , .	14.5	2
185	Mitochondria: A practical approach. Trends in Genetics, 1988, 4, 242.	6.7	1
186	Boycott everything. EMBO Reports, 2009, 10, 1183-1183.	4.5	1
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