Jan W Taanman

List of Publications by Year
in descending order

119	8,718	53794	43889
papers	citations	45 h-index	91 g-index

126	126	126	10069
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The mitochondrial genome: structure, transcription, translation and replication. Biochimica Et Biophysica Acta - Bioenergetics, 1999, 1410, 103-123.	1.0	1,220
2	Mitofusin 1 and mitofusin 2 are ubiquitinated in a PINK1/parkin-dependent manner upon induction of mitophagy. Human Molecular Genetics, 2010, 19, 4861-4870.	2.9	795
3	Biochemical abnormalities and excitotoxicity in Huntington's disease brain. Annals of Neurology, 1999, 45, 25-32.	5.3	439
4	Parkinson's disease induced pluripotent stem cells with triplication of the Î±-synuclein locus. Nature Communications, 2011, 2, 440.	12.8	406
5	Mitochondrial DNA transmission of the mitochondrial defect in Parkinson's disease. Annals of Neurology, 1998, 44, 177-186.	5.3	301
6	A mutant mitochondrial respiratory chain assembly protein causes complex III deficiency in patients with tubulopathy, encephalopathy and liver failure. Nature Genetics, 2001, 29, 57-60.	21.4	297
7	A mutation in the human heme A:farnesyltransferase gene (COX10) causes cytochrome c oxidase deficiency. Human Molecular Genetics, 2000, 9, 1245-1249.	2.9	261
8	Cytochrome c Oxidase subunit I microdeletion in a patient with motor neuron disease. Annals of Neurology, 1998, 43, 110-116.	5.3	251
9	Assembly of cytochrome-c oxidase in cultured human cells. FEBS Journal, 1998, 254, 389-394.	0.2	211
10	Expression of mutant alpha-synuclein causes increased susceptibility to dopamine toxicity. Human Molecular Genetics, 2000, 9, 2683-2689.	2.9	182
11	Silencing of PINK1 Expression Affects Mitochondrial DNA and Oxidative Phosphorylation in DOPAMINERGIC Cells. PLoS ONE, 2009, 4, e4756.	2.5	173
12	Dominant inheritance of premature ovarian failure associated with mutant mitochondrial DNA polymerase gamma. Human Reproduction, 2006, 21, 2467-2473.	0.9	153
13	Status epilepticus in children with Alpersâ€™ disease caused by POLG1 mutations: EEG and MRI features. Epilepsia, 2009, 50, 1596-1607.	5.1	141
14	A Missense Mutation of Cytochrome Oxidase Subunit II Causes Defective Assembly and Myopathy. American Journal of Human Genetics, 1999, 65, 1030-1039.	6.2	131
15	[9] Mammalian cytochrome-c oxidase: Characterization of enzyme and immunological detection of subunits in tissue extracts and whole cells. Methods in Enzymology, 1995, 260, 117-132.	1.0	121
16	Molecular Mechanisms in Mitochondrial DNA Depletion Syndrome. Human Molecular Genetics, 1997, 6, 935-942.	2.9	121
17	Cytochrome c Oxidase Subassemblies in Fibroblast Cultures from Patients Carrying Mutations in COX10, SCO1, or SURF1. Journal of Biological Chemistry, 2004, 279, 7462-7469.	3.4	118
18	A novel frameshift mutation of the mtDNA COIII gene leads to impaired assembly of cytochrome c oxidase in a patient affected by Leigh-like syndrome. Human Molecular Genetics, 2000, 9, 2733-2742.	2.9	109

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19	Liver failure associated with mitochondrial DNA depletion. Journal of Hepatology, 1998, 28, 556-563.	3.7	106
20	NDUFA4 Mutations Underlie Dysfunction of a Cytochrome c Oxidase Subunit Linked to Human Neurological Disease. Cell Reports, 2013, 3, 1795-1805.	6.4	104
21	Expression of mtDNA and nDNA encoded respiratory chain proteins in chemically and genetically-derived Rho0 human fibroblasts: a comparison of subunit proteins in normal fibroblasts treated with ethidium bromide and fibroblasts from a patient with mtDNA depletion syndrome. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 1997, 1362, 145-159.	3.8	97
22	Differential effects of PINK1 nonsense and missense mutations on mitochondrial function and morphology. Experimental Neurology, 2009, 219, 266-273.	4.1	93
23	Replication of mitochondrial DNA occurs throughout the mitochondria of cultured human cells. Experimental Cell Research, 2003, 289, 133-142.	2.6	86
24	A LON-ClpP Proteolytic Axis Degrades Complex I to Extinguish ROS Production in Depolarized Mitochondria. Cell Reports, 2016, 17, 2522-2531.	6.4	81
25	Human cytochrome c oxidase: structure, function, and deficiency. Journal of Bioenergetics and Biomembranes, 1997, 29, 151-163.	2.3	80
26	FOXRED1, encoding an FAD-dependent oxidoreductase complex-I-specific molecular chaperone, is mutated in infantile-onset mitochondrial encephalopathy. Human Molecular Genetics, 2010, 19, 4837-4847.	2.9	79
27	Pathogenic Parkinsonâ€™s disease mutations across the functional domains of LRRK2 alter the autophagic/lysosomal response to starvation. Biochemical and Biophysical Research Communications, 2013, 441, 862-866.	2.1	79
28	Mitochondrial DNA depletion can be prevented by dGMP and dAMP supplementation in a resting culture of deoxyguanosine kinase-deficient fibroblasts. Human Molecular Genetics, 2003, 12, 1839-1845.	2.9	78
29	Signal transducer and activator of transcription 2 deficiency is a novel disorder of mitochondrial fission. Brain, 2015, 138, 2834-2846.	7.6	78
30	Decreased Brain Protein Levels of Cytochrome Oxidase Subunits in Alzheimer's Disease and in Hereditary Spinocerebella Ataxia Disorders. Journal of Neurochemistry, 1999, 72, 700-707.	3.9	76
31	Clinical, biochemical and morphological features of hepatocerebral syndrome with mitochondrial DNA depletion due to deoxyguanosine kinase deficiency. Journal of Hepatology, 2005, 43, 333-341.	3.7	75
32	HIBCH mutations can cause Leigh-like disease with combined deficiency of multiple mitochondrial respiratory chain enzymes and pyruvate dehydrogenase. Orphanet Journal of Rare Diseases, 2013, 8, 188.	2.7	70
33	Mitochondrial single-stranded DNA binding protein is required for maintenance of mitochondrial DNA and 7S DNA but is not required for mitochondrial nucleoid organisation. Biochimica Et Biophysica Acta - Molecular Cell Research, 2010, 1803, 931-939.	4.1	64
34	Mutations in the mitochondrial complex I assembly factor NDUFAF1 cause fatal infantile hypertrophic cardiomyopathy. Journal of Medical Genetics, 2011, 48, 691-697.	3.2	64
35	TRNT1 deficiency: clinical, biochemical and molecular genetic features. Orphanet Journal of Rare Diseases, 2016, 11, 90.	2.7	64
36	Somatic copy number gains of Î±-synuclein (SNCA) in Parkinsonâ€™s disease and multiple system atrophy brains. Brain, 2018, 141, 2419-2431.	7.6	63

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37	Mitochondria as target to inhibit proliferation and induce apoptosis of cancer cells: the effects of doxycycline and gemcitabine. Scientific Reports, 2020, 10, 4363.	3.3	59
38	Influence of mitochondrial DNA level on cellular energy metabolism: implications for mitochondrial diseases. Journal of Bioenergetics and Biomembranes, 2008, 40, 59-67.	2.3	57
39	A Human Neural Crest Stem Cell-Derived Dopaminergic Neuronal Model Recapitulates Biochemical Abnormalities in GBA1 Mutation Carriers. Stem Cell Reports, 2017, 8, 728-742.	4.8	57
40	Regulation of Cytochrome c Oxidase by Interaction of ATP at Two Binding Sites, One on Subunit VIa. Biochemistry, 1994, 33, 11833-11841.	2.5	54
41	Altered gene expression and functions of mitochondria in human nephrotic syndrome. FASEB Journal, 1999, 13, 523-532.	0.5	53
42	Analysis of mutant DNA polymerase Î³ in patients with mitochondrial DNA depletion. Human Mutation, 2009, 30, 248-254.	2.5	52
43	Regulation of the expression of mitochondrial proteins: relationship between mtDNA copy number and cytochrome-c oxidase activity in human cells and tissues. Biochimica Et Biophysica Acta - Bioenergetics, 1993, 1144, 177-183.	1.0	51
44	Subunit specific monoclonal antibodies show different steady-state levels of various cytochrome-c oxidase subunits in chronic progressive external ophthalmoplegia. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 1996, 1315, 199-207.	3.8	49
45	Kearns-Sayre syndrome caused by defective R1/p53R2 assembly. Journal of Medical Genetics, 2011, 48, 610-617.	3.2	49
46	Mitochondrial DNA Depletion Syndrome is Expressed in Amniotic Fluid Cell Cultures. American Journal of Pathology, 1999, 155, 67-70.	3.8	48
47	Mutant torsinA, which causes early-onset primary torsion dystonia, is redistributed to membranous structures enriched in vesicular monoamine transporter in cultured human SH-SY5Y cells. Movement Disorders, 2005, 20, 432-440.	3.9	48
48	The clinical spectrum and natural history of early-onset diseases due to DNA polymerase gamma mutations. Genetics in Medicine, 2017, 19, 1217-1225.	2.4	45
49	Steady-state transcript levels of cytochrome c oxidase genes during human myogenesis indicate subunit switching of subunit VIa and co-expression of subunit VIIa isoforms. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 1992, 1139, 155-162.	3.8	44
50	A novel mutation in the deoxyguanosine kinase gene causing depletion of mitochondrial DNA. Annals of Neurology, 2002, 52, 237-239.	5.3	44
51	Creation of an Open-Access, Mutation-Defined Fibroblast Resource for Neurological Disease Research. PLoS ONE, 2012, 7, e43099.	2.5	44
52	NDUFA4 (Renamed COXFA4) Is a Cytochrome-c Oxidase Subunit. Trends in Endocrinology and Metabolism, 2018, 29, 452-454.	7.1	44
53	Depletion of mitochondrial DNA in the liver of an infant with neonatal giant cell hepatitis. Human Pathology, 2002, 33, 247-253.	2.0	42
54	Phenotypic variability of mitochondrial disease caused by a nuclear mutation in complex II. Molecular Genetics and Metabolism, 2006, 89, 214-221.	1.1	42

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55	Myoclonusâ€“dystonia syndrome with severe depression is caused by an exon-skipping mutation in the É›-sarcoglycan gene. Movement Disorders, 2007, 22, 1173-1175.	3.9	41
56	Collated mutations in mitochondrial DNA (mtDNA) depletion syndrome (excluding the mitochondrial) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 1109-1112.	3.8	41
57	Analysis of the trinucleotide CAG repeat from the DNA polymerase Î³ gene (POLG) in patients with Parkinson's disease. Neuroscience Letters, 2005, 376, 56-59.	2.1	39
58	Kinetic properties of mutant deoxyguanosine kinase in a case of reversible hepatic mtDNA depletion. Biochemical Journal, 2007, 402, 377-385.	3.7	39
59	Odour-conditioned anemotaxis of apterous aphids (Cryptomyzus korschelti) in response to host plants. Physiological Entomology, 1987, 12, 473-479.	1.5	36
60	A Clinical, Neuropathological and Genetic Study of Homozygous A467T POLG-Related Mitochondrial Disease. PLoS ONE, 2016, 11, e0145500.	2.5	36
61	Type I Tyrosinemia: Lack of Immunologically Detectable Fumarylacetoacetase Enzyme Protein in Tissues and Cell Extracts. Pediatric Research, 1987, 22, 394-398.	2.3	34
62	Analysis of COX2 mutants reveals cytochrome oxidase subassemblies in yeast. Biochemical Journal, 2005, 390, 703-708.	3.7	31
63	Nucleotide sequence of cDNA encoding human fumarylacetoacetase. Nucleic Acids Research, 1990, 18, 1887-1887.	14.5	30
64	Assembly of cytochrome c oxidase: what can we learn from patients with cytochrome c oxidase deficiency?. Biochemical Society Transactions, 2001, 29, 446-451.	3.4	30
65	Biochemical, genetic and immunoblot analyses of 17 patients with an isolated cytochrome c oxidase deficiency. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 1999, 1455, 35-44.	3.8	29
66	Characterization of a novel TYMP splice site mutation associated with mitochondrial neurogastrointestinal encephalomyopathy (MNGIE). Neuromuscular Disorders, 2009, 19, 151-154.	0.6	29
67	Pathogenic LRRK2 Mutations Do Not Alter Gene Expression in Cell Model Systems or Human Brain Tissue. PLoS ONE, 2011, 6, e22489.	2.5	27
68	COX10Mutations Resulting in Complex Multisystem Mitochondrial Disease That Remains Stable Into Adulthood. JAMA Neurology, 2013, 70, 1556-61.	9.0	27
69	Mitochondrial cristae remodelling is associated with disrupted OPA1 oligomerisation in the Huntington's disease R6/2 fragment model. Experimental Neurology, 2017, 288, 167-175.	4.1	27
70	DNA isolation protocol effects on nuclear DNA analysis by microarrays, droplet digital PCR, and whole genome sequencing, and on mitochondrial DNA copy number estimation. PLoS ONE, 2017, 12, e0180467.	2.5	27
71	Nucleotide sequence of cDNA encoding subunit VIb of human cytochromecoxidase. Nucleic Acids Research, 1989, 17, 1766-1766.	14.5	26
72	Diagnostic Value of Succinate Ubiquinone Reductase Activity in the Identification of Patients with Mitochondrial DNA Depletion. Journal of Inherited Metabolic Disease, 2002, 25, 7-16.	3.6	26

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73	Mitochondrial Dysfunction in Congenital Nephrotic Syndrome. Laboratory Investigation, 2000, 80, 1227-1232.	3.7	25
74	A Novel Mutation in SURF1 Causes Skipping of Exon 8 in a Patient with Cytochrome c Oxidase-Deficient Leigh Syndrome and Hypertrichosis. Molecular Genetics and Metabolism, 2001, 73, 340-343.	1.1	22
75	Mutations of cytochrome c oxidase subunits 1 and 3 in Saccharomyces cerevisiae: assembly defect and compensation. Biochimica Et Biophysica Acta - Bioenergetics, 2002, 1554, 101-107.	1.0	21
76	Huntingtin Aggregates and Mitochondrial Pathology in Skeletal Muscle but not Heart of Late-Stage R6/2 Mice. Journal of Huntington's Disease, 2019, 8, 145-159.	1.9	20
77	Isolation of cDNAs encoding subunit VIb of human cytochrome c oxidase and steady-state levels of coxVIb mRNA in different tissues. Gene, 1990, 93, 285-291.	2.2	19
78	Selective striatal mtDNA depletion in end-stage Huntington's disease R6/2 mice. Experimental Neurology, 2015, 266, 22-29.	4.1	19
79	Clinicopathologic and molecular spectrum of RNASEH1 -related mitochondrial disease. Neurology: Genetics, 2017, 3, e149.	1.9	19
80	Assignment of the gene coding for human cytochrome c oxidase subunit VIb to chromosome 19, band q13.1, by fluorescence in situ hybridisation. Human Genetics, 1991, 87, 325-327.	3.8	18
81	Sirtuin 5 depletion impairs mitochondrial function in human proximal tubular epithelial cells. Scientific Reports, 2021, 11, 15510.	3.3	18
82	Mitochondria as oncotarget: a comparison between the tetracycline analogs doxycycline and COL-3. Oncotarget, 2018, 9, 33818-33831.	1.8	18
83	Immunological Phenotyping of Fibroblast Cultures from Patients with a Mitochondrial Respiratory Chain Deficit. Laboratory Investigation, 2001, 81, 1069-1077.	3.7	17
84	Increased sensitivity of myoblasts to oxidative stress in amyotrophic lateral sclerosis peripheral tissues. Experimental Neurology, 2009, 218, 92-97.	4.1	16
85	Does Doxycycline work in synergy with cisplatin and oxaliplatin in colorectal cancer?. World Journal of Surgical Oncology, 2009, 7, 2.	1.9	16
86	Clonal Expansion of T Cells in Abdominal Aortic Aneurysm: A Role for Doxycycline as Drug of Choice?. International Journal of Molecular Sciences, 2015, 16, 11178-11195.	4.1	12
87	Identification of three human pseudogenes for subunit VIb of cytochrome c oxidase: a molecular record of gene evolution. Gene, 1991, 102, 237-244.	2.2	10
88	Nucleotide sequence of the last exon of the gene for human cytochrome c oxidase subunit VIb and its flanking regions. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1991, 1089, 283-285.	2.4	10
89	Lowering the apoptotic threshold in colorectal cancer cells by targeting mitochondria. Cancer Cell International, 2010, 10, 31.	4.1	10
90	Intracellular oxygenation and cytochrome oxidase C activity in ischemic preconditioning of steatotic rabbit liver. American Journal of Surgery, 2010, 200, 507-518.	1.8	10

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91	Influence of zinc and zinc chelator on HT-29 colorectal cell line. BioMetals, 2011, 24, 143-151.	4.1	10
92	Ambroxol reverses tau and Î±-synuclein accumulation in a cholinergic N370S GBA1 mutation model. Human Molecular Genetics, 2022, 31, 2396-2405.	2.9	10
93	Expression of Nodulin Genes During Nodule Development from Effective and Ineffective Root Nodules. , 1984, , 579-586.		9
94	SCID mice containing muscle with human mitochondrial DNA mutations. An animal model for mitochondrial DNA defects.. Journal of Clinical Investigation, 1998, 102, 2090-2095.	8.2	9
95	The PINK1â€"Parkin mitophagy signalling pathway is not functional in peripheral blood mononuclear cells. PLoS ONE, 2021, 16, e0259903.	2.5	8
96	A nuclear modifier for a mitochondrial DNA disorder. Trends in Genetics, 2001, 17, 609-611.	6.7	7
97	Glucosylceramidase degradation in fibroblasts carrying bi-allelic Parkin mutations. Molecular Genetics and Metabolism, 2013, 109, 402-403.	1.1	5
98	Relapsing neuropathy in an 18-year-old woman. Lancet Neurology, The, 2007, 6, 192-198.	10.2	4
99	Mitofusin 1 and mitofusin 2 are ubiquitinated in a PINK1/parkin-dependent manner upon induction of mitophagy. Human Molecular Genetics, 2013, 22, 1697-1697.	2.9	4
100	Chapter 1 Structure and Function of the Mitochondrial Oxidative Phosphorylation System. Blue Books of Practical Neurology, 2002, , 1-34.	0.1	3
101	The diagnosis of inherited metabolic diseases by microarray gene expression profiling. Orphanet Journal of Rare Diseases, 2010, 5, 34.	2.7	3
102	Assessment of the significance of mitochondrial DNA damage by chemotherapeutic agents. International Journal of Oncology, 2005, 27, 337.	3.3	2
103	Measurement of kinetic parameters of human platelet DNA polymerase Î³. Methods, 2010, 51, 374-378.	3.8	2
104	Comment on â€œAneurysmal Lesions of Patients with Abdominal Aortic Aneurysm Contain Clonally Expanded T Cellsâ€• Journal of Immunology, 2014, 193, 2041.1-2041.	0.8	2
105	Loss of PINK1 or Parkin Function Results in a Progressive Loss of Mitochondrial Function. , 2017, , 187-209.		1
106	Subunit composition of respiratory chain complex 1 and its responses to oxygen in mitochondria from human donor livers. BMC Research Notes, 2017, 10, 547.	1.4	1
107	The Human Mitochondrial Genome. Oxidative Stress and Disease, 2005, , 95-246.	0.3	1
108	Mitochondrial DNA Mutations and Nuclear Mitochondrial Interactions in Human Disease. , 1999, , 635-663.		1

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109	Impact of treprostinil on dynamin-related protein 1 (DRP1) and mitochondrial fragmentation in pulmonary arterial hypertension (PAH).. , 2018, , .		1
110	POG01 Anti-thymidine phosphorylase antibodies in the diagnosis of mitochondrial neurogastrointestinal encephalomyopathy. Journal of Neurology, Neurosurgery and Psychiatry, 2010, 81, e48-e48.	1.9	0
111	P47 Mutations in the novel chaperone FOXRED1 cause mitochondrial complex I deficiency. Neuromuscular Disorders, 2011, 21, S19.	0.6	0
112	P58 Mitochondrial respiratory chain enzyme deficiency expressed during muscle development. Neuromuscular Disorders, 2011, 21, S23.	0.6	0
113	14 Mitochondrial cardiomyopathy caused by defective assembly of respiratory chain complex I. Heart, 2011, 97, e8-e8.	2.9	0
114	NDUFA4 Mutations Underlie Dysfunction of a Cytochrome c Oxidase Subunit Linked to Human Neurological Disease. Cell Reports, 2013, 4, 402.	6.4	0
115	D03 Mitochondrial Biogenesis, And Respiratory Chain Assembly And Function, In Skeletal Muscle Of The R6/2 Mouse Model And Human Huntington's Disease. Journal of Neurology, Neurosurgery and Psychiatry, 2014, 85, A32-A32.	1.9	0
116	B34 Mitochondrial Biogenesis, And Respiratory Chain Assembly And Function, In Heart Of R6/2 Mouse Model Of Huntington's Disease. Journal of Neurology, Neurosurgery and Psychiatry, 2014, 85, A21-A21.	1.9	0
117	B25â€...Mitochondrial fission and fusion in skeletal muscle from HD patients and zQ175 mice. Journal of Neurology, Neurosurgery and Psychiatry, 2016, 87, A17.3-A18.	1.9	0
118	Mitochondrial DNA: Structure, Genetics, Replication and Defects. , 2019, , 127-152.		0
119	Mitochondrial respiratory chain and Krebs cycle enzyme function in human donor livers subjected to end-ischaemic hypothermic machine perfusion. PLoS ONE, 2021, 16, e0257783.	2.5	0