Jan W Taanman

List of Publications by Year in Descending Order

117 papers	7,518 citations	43 h-index	86 g-index
126 ext. papers	8,205 ext. citations	6.1 avg, IF	5.72 L-index

#	Paper	IF	Citations
117	Ambroxol reverses tau and -synuclein accumulation in a cholinergic N370S GBA1 mutation model.. *Human Molecular Genetics*, **2022**,	5.6	2
116	The PINK1-Parkin mitophagy signalling pathway is not functional in peripheral blood mononuclear cells. *PLoS ONE*, **2021**, 16, e0259903	3.7	0
115	Mitochondrial respiratory chain and Krebs cycle enzyme function in human donor livers subjected to end-ischaemic hypothermic machine perfusion. *PLoS ONE*, **2021**, 16, e0257783	3.7	
114	Sirtuin 5 depletion impairs mitochondrial function in human proximal tubular epithelial cells. *Scientific Reports*, **2021**, 11, 15510	4.9	3
113	Mitochondria as target to inhibit proliferation and induce apoptosis of cancer cells: the effects of doxycycline and gemcitabine. *Scientific Reports*, **2020**, 10, 4363	4.9	31
112	Mitochondrial DNA: Structure, Genetics, Replication and Defects **2019**, 127-152		
111	Huntingtin Aggregates and Mitochondrial Pathology in Skeletal Muscle but not Heart of Late-Stage R6/2 Mice. *Journal of Huntingtons Disease*, **2019**, 8, 145-159	1.9	9
110	NDUFA4 (Renamed COXFA4) Is a Cytochrome-c Oxidase Subunit. *Trends in Endocrinology and Metabolism*, **2018**, 29, 452-454	8.8	27
109	Somatic copy number gains of -synuclein (SNCA) in Parkinson's disease and multiple system atrophy brains. *Brain*, **2018**, 141, 2419-2431	11.2	41
108	Mitochondria as oncotarget: a comparison between the tetracycline analogs doxycycline and COL-3. *Oncotarget*, **2018**, 9, 33818-33831	3.3	13
107	A Human Neural Crest Stem Cell-Derived Dopaminergic Neuronal Model Recapitulates Biochemical Abnormalities in GBA1 Mutation Carriers. *Stem Cell Reports*, **2017**, 8, 728-742	8	42
106	Clinicopathologic and molecular spectrum of -related mitochondrial disease. *Neurology: Genetics*, **2017**, 3, e149	3.8	14
105	The clinical spectrum and natural history of early-onset diseases due to DNA polymerase gamma mutations. *Genetics in Medicine*, **2017**, 19, 1217-1225	8.1	32
104	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	3.7	18
103	Subunit composition of respiratory chain complex 1 and its responses to oxygen in mitochondria from human donor livers. *BMC Research Notes*, **2017**, 10, 547	2.3	1
102	Mitochondrial cristae remodelling is associated with disrupted OPA1 oligomerisation in the Huntington's disease R6/2 fragment model. *Experimental Neurology*, **2017**, 288, 167-175	5.7	17
101	Loss of PINK1 or Parkin Function Results in a Progressive Loss of Mitochondrial Function **2017**, 187-209		1

100	B25 Mitochondrial fission and fusion in skeletal muscle from HD patients and zQ175 mice. *Journal of Neurology, Neurosurgery and Psychiatry*, **2016**, 87, A17.3-A18	5.5	
99	A Clinical, Neuropathological and Genetic Study of Homozygous A467T POLG-Related Mitochondrial Disease. *PLoS ONE*, **2016**, 11, e0145500	3.7	33
98	A LON-ClpP Proteolytic Axis Degrades Complex I to Extinguish ROS Production in Depolarized Mitochondria. *Cell Reports*, **2016**, 17, 2522-2531	10.6	49
97	TRNT1 deficiency: clinical, biochemical and molecular genetic features. *Orphanet Journal of Rare Diseases*, **2016**, 11, 90	4.2	50
96	Selective striatal mtDNA depletion in end-stage Huntington's disease R6/2 mice. *Experimental Neurology*, **2015**, 266, 22-9	5.7	16
95	Clonal expansion of T cells in abdominal aortic aneurysm: a role for doxycycline as drug of choice?. *International Journal of Molecular Sciences*, **2015**, 16, 11178-95	6.3	12
94	Signal transducer and activator of transcription 2 deficiency is a novel disorder of mitochondrial fission. *Brain*, **2015**, 138, 2834-46	11.2	59
93	B34 Mitochondrial Biogenesis, And Respiratory Chain Assembly And Function, In Heart Of R6/2 Mouse Model Of Huntington Disease. *Journal of Neurology, Neurosurgery and Psychiatry*, **2014**, 85, A21-A21	5.5	
92	D03 Mitochondrial Biogenesis, And Respiratory Chain Assembly And Function, In Skeletal Muscle Of The R6/2 Mouse Model And Human Huntington Disease. *Journal of Neurology, Neurosurgery and Psychiatry*, **2014**, 85, A32-A32	5.5	
91	Comment on "aneurysmal lesions of patients with abdominal aortic aneurysm contain clonally expanded T cells". *Journal of Immunology*, **2014**, 193, 2041	5.3	2
90	NDUFA4 mutations underlie dysfunction of a cytochrome c oxidase subunit linked to human neurological disease. *Cell Reports*, **2013**, 3, 1795-805	10.6	85
89	Pathogenic Parkinson's disease mutations across the functional domains of LRRK2 alter the autophagic/lysosomal response to starvation. *Biochemical and Biophysical Research Communications* , **2013**, 441, 862-6	3.4	66
88	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	4.2	57
87	NDUFA4 Mutations Underlie Dysfunction of a Cytochrome c Oxidase Subunit Linked to Human Neurological Disease. *Cell Reports*, **2013**, 4, 402	10.6	78
86	Glucosylceramidase degradation in fibroblasts carrying bi-allelic Parkin mutations. *Molecular Genetics and Metabolism*, **2013**, 109, 402-3	3.7	5
85	COX10 mutations resulting in complex multisystem mitochondrial disease that remains stable into adulthood. *JAMA Neurology*, **2013**, 70, 1556-61	17.2	24
84	Mitofusin 1 and mitofusin 2 are ubiquitinated in a PINK1/parkin-dependent manner upon induction of mitophagy. *Human Molecular Genetics*, **2013**, 22, 1697-1697	5.6	4
83	Creation of an open-access, mutation-defined fibroblast resource for neurological disease research. *PLoS ONE*, **2012**, 7, e43099	3.7	35

82	Pathogenic LRRK2 mutations do not alter gene expression in cell model systems or human brain tissue. *PLoS ONE*, **2011**, 6, e22489	3.7	27
81	Influence of zinc and zinc chelator on HT-29 colorectal cell line. *BioMetals*, **2011**, 24, 143-51	3.4	9
80	Kearns-Sayre syndrome caused by defective R1/p53R2 assembly. *Journal of Medical Genetics*, **2011**, 48, 610-7	5.8	41
79	Mutations in the mitochondrial complex I assembly factor NDUFAF1 cause fatal infantile hypertrophic cardiomyopathy. *Journal of Medical Genetics*, **2011**, 48, 691-7	5.8	55
78	14 Mitochondrial cardiomyopathy caused by defective assembly of respiratory chain complex I. *Heart*, **2011**, 97, e8-e8	5.1	
77	Parkinson's disease induced pluripotent stem cells with triplication of the □synuclein locus. *Nature Communications*, **2011**, 2, 440	17.4	328
76	Mitofusin 1 and mitofusin 2 are ubiquitinated in a PINK1/parkin-dependent manner upon induction of mitophagy. *Human Molecular Genetics*, **2010**, 19, 4861-70	5.6	680
75	FOXRED1, encoding an FAD-dependent oxidoreductase complex-I-specific molecular chaperone, is mutated in infantile-onset mitochondrial encephalopathy. *Human Molecular Genetics*, **2010**, 19, 4837-47	5.6	73
74	POG01 Anti-thymidine phosphorylase antibodies in the diagnosis of mitochondrial neurogastrointestinal encephalomyopathy. *Journal of Neurology, Neurosurgery and Psychiatry*, **2010**, 81, e48-e48	5.5	
73	The diagnosis of inherited metabolic diseases by microarray gene expression profiling. *Orphanet Journal of Rare Diseases*, **2010**, 5, 34	4.2	2
72	Intracellular oxygenation and cytochrome oxidase C activity in ischemic preconditioning of steatotic rabbit liver. *American Journal of Surgery*, **2010**, 200, 507-18	2.7	7
71	Measurement of kinetic parameters of human platelet DNA polymerase gamma. *Methods*, **2010**, 51, 374-86	4	2
70	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, 931-9	4.9	50
69	Lowering the apoptotic threshold in colorectal cancer cells by targeting mitochondria. *Cancer Cell International*, **2010**, 10, 31	6.4	9
68	Analysis of mutant DNA polymerase gamma in patients with mitochondrial DNA depletion. *Human Mutation*, **2009**, 30, 248-54	4.7	46
67	Status epilepticus in children with Alpers' disease caused by POLG1 mutations: EEG and MRI features. *Epilepsia*, **2009**, 50, 1596-607	6.4	123
66	Increased sensitivity of myoblasts to oxidative stress in amyotrophic lateral sclerosis peripheral tissues. *Experimental Neurology*, **2009**, 218, 92-7	5.7	12
65	Differential effects of PINK1 nonsense and missense mutations on mitochondrial function and morphology. *Experimental Neurology*, **2009**, 219, 266-73	5.7	90

64	Collated mutations in mitochondrial DNA (mtDNA) depletion syndrome (excluding the mitochondrial gamma polymerase, POLG1). *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2009**, 1792, 1109-12	6.9	33
63	Characterization of a novel TYMP splice site mutation associated with mitochondrial neurogastrointestinal encephalomyopathy (MNGIE). *Neuromuscular Disorders*, **2009**, 19, 151-4	2.9	24
62	Does doxycycline work in synergy with cisplatin and oxaliplatin in colorectal cancer?. *World Journal of Surgical Oncology*, **2009**, 7, 2	3.4	14
61	Silencing of PINK1 expression affects mitochondrial DNA and oxidative phosphorylation in dopaminergic cells. *PLoS ONE*, **2009**, 4, e4756	3.7	147
60	Influence of mitochondrial DNA level on cellular energy metabolism: implications for mitochondrial diseases. *Journal of Bioenergetics and Biomembranes*, **2008**, 40, 59-67	3.7	48
59	Myoclonus-dystonia syndrome with severe depression is caused by an exon-skipping mutation in the epsilon-sarcoglycan gene. *Movement Disorders*, **2007**, 22, 1173-5	7	38
58	Relapsing neuropathy in an 18-year-old woman. *Lancet Neurology, The*, **2007**, 6, 192-8	24.1	4
57	Kinetic properties of mutant deoxyguanosine kinase in a case of reversible hepatic mtDNA depletion. *Biochemical Journal*, **2007**, 402, 377-85	3.8	34
56	Dominant inheritance of premature ovarian failure associated with mutant mitochondrial DNA polymerase gamma. *Human Reproduction*, **2006**, 21, 2467-73	5.7	132
55	Phenotypic variability of mitochondrial disease caused by a nuclear mutation in complex II. *Molecular Genetics and Metabolism*, **2006**, 89, 214-21	3.7	38
54	Assessment of the significance of mitochondrial DNA damage by chemotherapeutic agents **2005**, 27, 337		
53	Clinical, biochemical and morphological features of hepatocerebral syndrome with mitochondrial DNA depletion due to deoxyguanosine kinase deficiency. *Journal of Hepatology*, **2005**, 43, 333-41	13.4	69
52	Analysis of the trinucleotide CAG repeat from the DNA polymerase gamma gene (POLG) in patients with Parkinson's disease. *Neuroscience Letters*, **2005**, 376, 56-9	3.3	35
51	Analysis of COX2 mutants reveals cytochrome oxidase subassemblies in yeast. *Biochemical Journal*, **2005**, 390, 703-8	3.8	29
50	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	7	41
49	The Human Mitochondrial Genome. *Oxidative Stress and Disease*, **2005**, 95-246		1
48	Cytochrome c oxidase subassemblies in fibroblast cultures from patients carrying mutations in COX10, SCO1, or SURF1. *Journal of Biological Chemistry*, **2004**, 279, 7462-9	5.4	102
47	Replication of mitochondrial DNA occurs throughout the mitochondria of cultured human cells. *Experimental Cell Research*, **2003**, 289, 133-42	4.2	76

46	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, 1839-45	5.6	71
45	A novel mutation in the deoxyguanosine kinase gene causing depletion of mitochondrial DNA. *Annals of Neurology*, **2002**, 52, 237-9	9.4	39
44	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	5.4	23
43	Chapter 1 Structure and Function of the Mitochondrial Oxidative Phosphorylation System. *Blue Books of Practical Neurology*, **2002**, 1-34		1
42	Mutations of cytochrome c oxidase subunits 1 and 3 in Saccharomyces cerevisiae: assembly defect and compensation. *Biochimica Et Biophysica Acta - Bioenergetics*, **2002**, 1554, 101-7	4.6	18
41	Depletion of mitochondrial DNA in the liver of an infant with neonatal giant cell hepatitis. *Human Pathology*, **2002**, 33, 247-53	3.7	42
40	Assembly of cytochrome c oxidase: what can we learn from patients with cytochrome c oxidase deficiency?. *Biochemical Society Transactions*, **2001**, 29, 446-51	5.1	29
39	Immunological phenotyping of fibroblast cultures from patients with a mitochondrial respiratory chain deficit. *Laboratory Investigation*, **2001**, 81, 1069-77	5.9	15
38	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	36.3	262
37	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, 340-3	3.7	20
36	Mitochondrial dysfunction in congenital nephrotic syndrome. *Laboratory Investigation*, **2000**, 80, 1227-32	5.9	24
35	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, 2733-42	5.6	93
34	A mutation in the human heme A:farnesyltransferase gene (COX10) causes cytochrome c oxidase deficiency. *Human Molecular Genetics*, **2000**, 9, 1245-9	5.6	223
33	Expression of mutant alpha-synuclein causes increased susceptibility to dopamine toxicity. *Human Molecular Genetics*, **2000**, 9, 2683-9	5.6	166
32	Altered gene expression and functions of mitochondria in human nephrotic syndrome. *FASEB Journal*, **1999**, 13, 523-32	0.9	47
31	Decreased brain protein levels of cytochrome oxidase subunits in Alzheimer's disease and in hereditary spinocerebellar ataxia disorders: a nonspecific change?. *Journal of Neurochemistry*, **1999**, 72, 700-7	6	62
30	Biochemical abnormalities and excitotoxicity in Huntington's disease brain. *Annals of Neurology*, **1999**, 45, 25-32	9.4	393
29	A missense mutation of cytochrome oxidase subunit II causes defective assembly and myopathy. *American Journal of Human Genetics*, **1999**, 65, 1030-9	11	120

28	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	6.9	24
27	The mitochondrial genome: structure, transcription, translation and replication. *Biochimica Et Biophysica Acta - Bioenergetics*, **1999**, 1410, 103-23	4.6	940
26	Mitochondrial DNA depletion syndrome is expressed in amniotic fluid cell cultures. *American Journal of Pathology*, **1999**, 155, 67-70	5.8	45
25	Mitochondrial DNA Mutations and Nuclear Mitochondrial Interactions in Human Disease **1999**, 635-663		
24	Assembly of cytochrome-c oxidase in cultured human cells. *FEBS Journal*, **1998**, 254, 389-94		193
23	Cytochrome c oxidase subunit I microdeletion in a patient with motor neuron disease. *Annals of Neurology*, **1998**, 43, 110-6	9.4	226
22	Mitochondrial DNA transmission of the mitochondrial defect in Parkinson's disease. *Annals of Neurology*, **1998**, 44, 177-86	9.4	278
21	Liver failure associated with mitochondrial DNA depletion. *Journal of Hepatology*, **1998**, 28, 556-63	13.4	95
20	SCID mice containing muscle with human mitochondrial DNA mutations. An animal model for mitochondrial DNA defects. *Journal of Clinical Investigation*, **1998**, 102, 2090-5	15.9	8
19	Molecular mechanisms in mitochondrial DNA depletion syndrome. *Human Molecular Genetics*, **1997**, 6, 935-42	5.6	112
18	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, 145-59	6.9	86
17	Human cytochrome c oxidase: structure, function, and deficiency. *Journal of Bioenergetics and Biomembranes*, **1997**, 29, 151-63	3.7	68
16	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	6.9	41
15	Mammalian cytochrome-c oxidase: characterization of enzyme and immunological detection of subunits in tissue extracts and whole cells. *Methods in Enzymology*, **1995**, 260, 117-32	1.7	109
14	Regulation of cytochrome c oxidase by interaction of ATP at two binding sites, one on subunit VIa. *Biochemistry*, **1994**, 33, 11833-41	3.2	51
13	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, 177-83	4.6	45
12	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, 155-62	6.9	39
11	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, 325-7	6.3	17

10	Identification of three human pseudogenes for subunit VIb of cytochrome c oxidase: a molecular record of gene evolution. *Gene*, **1991**, 102, 237-44	3.8	7
9	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, 283-5		10
8	Nucleotide sequence of cDNA encoding human fumarylacetoacetase. *Nucleic Acids Research*, **1990**, 18, 1887	20.1	24
7	Isolation of cDNAs encoding subunit VIb of cytochrome c oxidase and steady-state levels of coxVIb mRNA in different tissues. *Gene*, **1990**, 93, 285-91	3.8	15
6	Nucleotide sequence of cDNA encoding subunit VIb of human cytochrome c oxidase. *Nucleic Acids Research*, **1989**, 17, 1766	20.1	22
5	Type I tyrosinemia: lack of immunologically detectable fumarylacetoacetase enzyme protein in tissues and cell extracts. *Pediatric Research*, **1987**, 22, 394-8	3.2	33
4	Odour-conditioned anemotaxis of apterous aphids (Cryptomyzus korschelti) in response to host plants. *Physiological Entomology*, **1987**, 12, 473-479	1.9	34
3	Expression of Nodulin Genes During Nodule Development from Effective and Ineffective Root Nodules **1984**, 579-586		8
2	The PINK1 Parkin mitophagy signalling pathway is not functional in peripheral blood mononuclear cells		1
1	Cytochrome-c Oxidase (COX)		2