Taosheng Huang

List of Publications by Year
in descending order

56 papers	2,920 citations	236833 25 h-index	182361 51 g-index
63 all docs	63 docs citations	63 times ranked	4493 citing authors

#	Article	IF	Citations
1	A Novel Variant of <scp>ATP5MC3</scp> Associated with Both Dystonia and Spastic Paraplegia. Movement Disorders, 2022, 37, 375-383.	2.2	10
2	Superâ€resolution analyzing spatial organization of lysosomes with an organic fluorescent probe. Exploration, 2022, 2, .	5.4	20
3	PINK1-mediated Drp1S616 phosphorylation modulates synaptic development and plasticity via promoting mitochondrial fission. Signal Transduction and Targeted Therapy, 2022, 7, 103.	7.1	25
4	Nextâ€Generation Sequencing to Characterize Mitochondrial Genomic DNA Heteroplasmy. Current Protocols, 2022, 2, e412.	1.3	2
5	Mitochondrial genome variant m.3250T>C as a possible risk factor for mitochondrial cardiomyopathy. Human Mutation, 2021, 42, 177-188.	1.1	5
6	Mitochondrial replacement therapy: Genetic counselors' experiences, knowledge, and opinions. Journal of Genetic Counseling, 2021, 30, 828-837.	0.9	2
7	Nanoscopic quantification of sub-mitochondrial morphology, mitophagy and mitochondrial dynamics in living cells derived from patients with mitochondrial diseases. Journal of Nanobiotechnology, 2021, 19, 136.	4.2	12
8	Validation of lowâ€coverage wholeâ€genome sequencing for mitochondrial DNA variants suggests mitochondrial DNA as a genetic cause of preterm birth. Human Mutation, 2021, 42, 1602-1614.	1.1	5
9	Creating Cell Model 2.0 Using Patient Samples Carrying a Pathogenic Mitochondrial DNA Mutation: iPSC Approach for LHON. Methods in Molecular Biology, 2021, , .	0.4	3
10	Mitochondria and Their Role in Human Reproduction. DNA and Cell Biology, 2020, 39, 1370-1378.	0.9	14
11	The role of mitochondrial-related nuclear genes in age-related common disease. Mitochondrion, 2020, 53, 38-47.	1.6	25
12	Integrated analysis of the molecular pathogenesis of FDXR-associated disease. Cell Death and Disease, 2020, 11, 423.	2.7	21
13	Systemic Delivery of AAV-Fdxr Mitigates the Phenotypes of Mitochondrial Disorders in Fdxr Mutant Mice. Molecular Therapy - Methods and Clinical Development, 2020, 18, 84-97.	1.8	4
14	The special considerations of gene therapy for mitochondrial diseases. Npj Genomic Medicine, 2020, 5, 7.	1.7	35
15	Systemic administration of AAV-Slc25a46 mitigates mitochondrial neuropathy in Slc25a46â^'/â^' mice. Human Molecular Genetics, 2020, 29, 649-661.	1.4	19
16	Clinical utility of whole genome sequencing for the detection of mitochondrial genome mutations. Journal of Genetics and Genomics, 2020, 47, 167-169.	1.7	8
17	PRICKLE3 linked to ATPase biogenesis manifested Leberâ€™s hereditary optic neuropathy. Journal of Clinical Investigation, 2020, 130, 4935-4946.	3.9	43
18	Reply to Annis et al.: Is quasi-Mendelian mtDNA competition enough to drive transmission of paternal mtDNA?. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14799-14800.	3.3	3

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19	Reply to Lutz-Bonengel et al.: Biparental mtDNA transmission is unlikely to be the result of nuclear mitochondrial DNA segments. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1823-1824.	3.3	15
20	Mitochondrial DNA Variants and Common Diseases: A Mathematical Model for the Diversity of Age-Related mtDNA Mutations. Cells, 2019, 8, 608.	1.8	66
21	A rapid bioanalytical tool for detection of sequence-specific circular DNA and mitochondrial DNA point mutations. Analytical and Bioanalytical Chemistry, 2019, 411, 1935-1941.	1.9	5
22	Contribution of mitochondrial ND1 3394T>C mutation to the phenotypic manifestation of Leberâ€™s hereditary optic neuropathy. Human Molecular Genetics, 2019, 28, 1515-1529.	1.4	26
23	The current landscape for the treatment of mitochondrial disorders. Journal of Genetics and Genomics, 2018, 45, 71-77.	1.7	7
24	Novel Mutations in EPCAM Cause Congenital Tufting Enteropathy. Journal of Clinical Gastroenterology, 2018, 52, e1-e6.	1.1	12
25	Biparental Inheritance of Mitochondrial DNA in Humans. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 13039-13044.	3.3	349
26	Biallelic mutations in FDXR cause neurodegeneration associated with inflammation. Journal of Human Genetics, 2018, 63, 1211-1222.	1.1	23
27	Validation of the diagnostic potential of mtDNA copy number derived from whole genome sequencing. Journal of Genetics and Genomics, 2018, 45, 333-335.	1.7	7
28	65 YEARS OF THE DOUBLE HELIX: The advancements of gene editing and potential application to hereditary cancer. Endocrine-Related Cancer, 2018, 25, T141-T158.	1.6	3
29	Pathobiological Pseudohypoxia as a Putative Mechanism Underlying Myelodysplastic Syndromes. Cancer Discovery, 2018, 8, 1438-1457.	7.7	38
30	The Phosphatidylcholine Transfer Protein Stard7 is Required for Mitochondrial and Epithelial Cell Homeostasis. Scientific Reports, 2017, 7, 46416.	1.6	37
31	Live birth derived from oocyte spindle transfer to prevent mitochondrial disease. Reproductive BioMedicine Online, 2017, 34, 361-368.	1.1	255
32	Biallelic mutations in the ferredoxin reductase gene cause novel mitochondriopathy with optic atrophy. Human Molecular Genetics, 2017, 26, 4937-4950.	1.4	32
33	Response: First birth following spindle transfer - should we stay or should we go?. Reproductive BioMedicine Online, 2017, 35, 546-547.	1.1	3
34	Loss of SLC25A46 causes neurodegeneration by affecting mitochondrial dynamics and energy production in mice. Human Molecular Genetics, 2017, 26, 3776-3791.	1.4	39
35	Perspective: Is Random Monoallelic Expression a Contributor to Phenotypic Variability of Autosomal Dominant Disorders?. Frontiers in Genetics, 2017, 8, 191.	1.1	14
36	Mitochondrial replacement in human oocytes carrying pathogenic mitochondrial DNA mutations. Nature, 2016, 540, 270-275.	13.7	264

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37	Age-Related Accumulation of Somatic Mitochondrial DNA Mutations in Adult-Derived Human iPSCs. Cell Stem Cell, 2016, 18, 625-636.	5.2	190
38	A deafness-associated tRNA^{Asp}mutation alters the m¹G37 modification, aminoacylation and stability of tRNA^{Asp}and mitochondrial function. Nucleic Acids Research, 2016, 44, 10974-10985.	6.5	34
39	Biochemical evidence for a mitochondrial genetic modifier in the phenotypic manifestation of Leberâ€™s hereditary optic neuropathy-associated mitochondrial DNA mutation. Human Molecular Genetics, 2016, 25, 3613-3625.	1.4	32
40	Modeling autosomal dominant optic atrophy using induced pluripotent stem cells and identifying potential therapeutic targets. Stem Cell Research and Therapy, 2016, 7, 2.	2.4	37
41	The exome sequencing identified the mutation in YARS2 encoding the mitochondrial tyrosyl-tRNA synthetase as a nuclear modifier for the phenotypic manifestation of Leber's hereditary optic neuropathy-associated mitochondrial DNA mutation. Human Molecular Genetics, 2016, 25, 584-596.	1.4	89
42	Neonatal multiorgan failure due to ACAD9 mutation and complex I deficiency with mitochondrial hyperplasia in liver, cardiac myocytes, skeletal muscle, and renal tubules. Human Pathology, 2016, 49, 27-32.	1.1	26
43	Deep Sequencing Reveals Novel Genetic Variants in Children with Acute Liver Failure and Tissue Evidence of Impaired Energy Metabolism. PLoS ONE, 2016, 11, e0156738.	1.1	11
44	Inside the 8p23.1 duplication syndrome; eight microduplications of likely or uncertain clinical significance. American Journal of Medical Genetics, Part A, 2015, 167, 2052-2064.	0.7	21
45	Prevalence of MitochondrialND4Mutations in 1281 Han Chinese Subjects With Leber's Hereditary Optic Neuropathy. , 2015, 56, 4778.		49
46	Metabolic rescue in pluripotent cells from patients with mtDNA disease. Nature, 2015, 524, 234-238.	13.7	166
47	Mutations in SLC25A46, encoding a UGO1-like protein, cause an optic atrophy spectrum disorder. Nature Genetics, 2015, 47, 926-932.	9.4	166
48	Mutations of Human NARS2, Encoding the Mitochondrial Asparaginyl-tRNA Synthetase, Cause Nonsyndromic Deafness and Leigh Syndrome. PLoS Genetics, 2015, 11, e1005097.	1.5	97
49	Phenotypic and functional characterization of Bst+/- mouse retina. DMM Disease Models and Mechanisms, 2015, 8, 969-76.	1.2	8
50	Neuropathy target esterase impairments cause Oliverâ€“McFarlane and Laurenceâ€“Moon syndromes. Journal of Medical Genetics, 2015, 52, 85-94.	1.5	91
51	A deafness-associated tRNA^{His}mutation alters the mitochondrial function, ROS production and membrane potential. Nucleic Acids Research, 2014, 42, 8039-8048.	6.5	95
52	A splice donor mutation inNAA10results in the dysregulation of the retinoic acid signalling pathway and causes Lenz microphthalmia syndrome. Journal of Medical Genetics, 2014, 51, 185-196.	1.5	86
53	Species identification through mitochondrial rRNA genetic analysis. Scientific Reports, 2014, 4, 4089.	1.6	111
54	Next Generation Sequencing to Characterize Mitochondrial Genomic DNA Heteroplasmy. Current Protocols in Human Genetics, 2011, 71, Unit19.8.	3.5	34

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55	Presynaptic and postsynaptic mechanisms underlying auditory neuropathy in patients with mutations in theOTOForOPA1gene. Audiological Medicine, 2011, 9, 59-66.	0.4	10
56	Characterization of mitochondrial DNA heteroplasmy using a parallel sequencing system. BioTechniques, 2010, 48, 287-296.	0.8	103