Min-Xin Guan

List of Publications by Citations

182 papers	6,342 citations	44 h-index	68 g-index
207 ext. papers	7,095 ext. citations	5.6 avg, IF	5.56 L-index

#	Paper	IF	Citations
182	Maternally inherited aminoglycoside-induced and nonsyndromic deafness is associated with the novel C1494T mutation in the mitochondrial 12S rRNA gene in a large Chinese family. *American Journal of Human Genetics*, **2004**, 74, 139-52	11	283
181	Mutation in TRMU related to transfer RNA modification modulates the phenotypic expression of the deafness-associated mitochondrial 12S ribosomal RNA mutations. *American Journal of Human Genetics*, **2006**, 79, 291-302	11	190
180	The deafness-associated mitochondrial DNA mutation at position 7445, which affects tRNASer(UCN) precursor processing, has long-range effects on NADH dehydrogenase subunit ND6 gene expression. *Molecular and Cellular Biology*, **1998**, 18, 5868-79	4.8	170
179	Biochemical evidence for nuclear gene involvement in phenotype of non-syndromic deafness associated with mitochondrial 12S rRNA mutation. *Human Molecular Genetics*, **1996**, 5, 963-71	5.6	170
178	Mitochondrial stress engages E2F1 apoptotic signaling to cause deafness. *Cell*, **2012**, 148, 716-26	56.2	150
177	Mutational analysis of the mitochondrial 12S rRNA gene in Chinese pediatric subjects with aminoglycoside-induced and non-syndromic hearing loss. *Human Genetics*, **2005**, 117, 9-15	6.3	136
176	Cosegregation of C-insertion at position 961 with the A1555G mutation of the mitochondrial 12S rRNA gene in a large Chinese family with maternally inherited hearing loss. *American Journal of Medical Genetics Part A*, **2004**, 124A, 113-7		115
175	Mitochondrial 12S rRNA mutations associated with aminoglycoside ototoxicity. *Mitochondrion*, **2011**, 11, 237-45	4.9	111
174	The novel A4435G mutation in the mitochondrial tRNAMet may modulate the phenotypic expression of the LHON-associated ND4 G11778A mutation. *Investigative Ophthalmology and Visual Science*, **2006**, 47, 475-83		105
173	Biochemical characterization of the mitochondrial tRNASer(UCN) T7511C mutation associated with nonsyndromic deafness. *Nucleic Acids Research*, **2004**, 32, 867-77	20.1	104
172	Molecular Pathogenetic Mechanism of Maternally Inherited Deafness. *Annals of the New York Academy of Sciences*, **2004**, 1011, 259-271	6.5	103
171	The role of mitochondria in osteogenic, adipogenic and chondrogenic differentiation of mesenchymal stem cells. *Protein and Cell*, **2017**, 8, 439-445	7.2	102
170	Isolation and characterization of the putative nuclear modifier gene MTO1 involved in the pathogenesis of deafness-associated mitochondrial 12 S rRNA A1555G mutation. *Journal of Biological Chemistry*, **2002**, 277, 27256-64	5.4	99
169	Human mitochondrial leucyl-tRNA synthetase corrects mitochondrial dysfunctions due to the tRNALeu(UUR) A3243G mutation, associated with mitochondrial encephalomyopathy, lactic acidosis, and stroke-like symptoms and diabetes. *Molecular and Cellular Biology*, **2010**, 30, 2147-54	4.8	96
168	Mitochondrial 12S rRNA variants in 1642 Han Chinese pediatric subjects with aminoglycoside-induced and nonsyndromic hearing loss. *Mitochondrion*, **2010**, 10, 380-90	4.9	96
167	Maternally inherited essential hypertension is associated with the novel 4263A>G mutation in the mitochondrial tRNAIle gene in a large Han Chinese family. *Circulation Research*, **2011**, 108, 862-70	15.7	94
166	A human mitochondrial GTP binding protein related to tRNA modification may modulate phenotypic expression of the deafness-associated mitochondrial 12S rRNA mutation. *Molecular and Cellular Biology*, **2002**, 22, 7701-11	4.8	90

165	A deafness-associated tRNAHis mutation alters the mitochondrial function, ROS production and membrane potential. *Nucleic Acids Research*, **2014**, 42, 8039-48	20.1	80
164	Interaction of aminoglycosides with human mitochondrial 12S rRNA carrying the deafness-associated mutation. *Antimicrobial Agents and Chemotherapy*, **2009**, 53, 4612-8	5.9	75
163	Mitochondrial haplotypes may modulate the phenotypic manifestation of the deafness-associated 12S rRNA 1555A>G mutation. *Mitochondrion*, **2010**, 10, 69-81	4.9	74
162	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, 584-96	5.6	72
161	Functional characterization of the mitochondrial 12S rRNA C1494T mutation associated with aminoglycoside-induced and non-syndromic hearing loss. *Nucleic Acids Research*, **2005**, 33, 1132-9	20.1	72
160	Cosegregation of the G7444A mutation in the mitochondrial COI/tRNA(Ser(UCN)) genes with the 12S rRNA A1555G mutation in a Chinese family with aminoglycoside-induced and nonsyndromic hearing loss. *American Journal of Medical Genetics, Part A*, **2005**, 138A, 133-40	2.5	71
159	Mitochondrial transfer RNAMet 4435A>G mutation is associated with maternally inherited hypertension in a Chinese pedigree. *Hypertension*, **2009**, 53, 1083-90	8.5	70
158	Mutations of human NARS2, encoding the mitochondrial asparaginyl-tRNA synthetase, cause nonsyndromic deafness and Leigh syndrome. *PLoS Genetics*, **2015**, 11, e1005097	6	69
157	Human exonuclease 1 functionally complements its yeast homologues in DNA recombination, RNA primer removal, and mutation avoidance. *Journal of Biological Chemistry*, **1999**, 274, 17893-900	5.4	69
156	Species identification through mitochondrial rRNA genetic analysis. *Scientific Reports*, **2014**, 4, 4089	4.9	66
155	Extremely low penetrance of hearing loss in four Chinese families with the mitochondrial 12S rRNA A1555G mutation. *Biochemical and Biophysical Research Communications*, **2005**, 328, 1244-51	3.4	62
154	Variants in mitochondrial tRNAGlu, tRNAArg, and tRNAThr may influence the phenotypic manifestation of deafness-associated 12S rRNA A1555G mutation in three Han Chinese families with hearing loss. *American Journal of Medical Genetics, Part A*, **2006**, 140, 2188-97	2.5	58
153	Failures in mitochondrial tRNAMet and tRNAGln metabolism caused by the novel 4401A>G mutation are involved in essential hypertension in a Han Chinese Family. *Hypertension*, **2009**, 54, 329-37	8.5	55
152	MGM101, a nuclear gene involved in maintenance of the mitochondrial genome in Saccharomyces cerevisiae. *Nucleic Acids Research*, **1993**, 21, 3473-7	20.1	55
151	The mitochondrial tRNA(Thr) A15951G mutation may influence the phenotypic expression of the LHON-associated ND4 G11778A mutation in a Chinese family. *Gene*, **2006**, 376, 79-86	3.8	53
150	Clinical evaluation and sequence analysis of the complete mitochondrial genome of three Chinese patients with hearing impairment associated with the 12S rRNA T1095C mutation. *Biochemical and Biophysical Research Communications*, **2004**, 325, 1503-8	3.4	52
149	Maternally inherited nonsyndromic hearing loss is associated with the T7511C mutation in the mitochondrial tRNASerUCN gene in a Japanese family. *Biochemical and Biophysical Research Communications*, **2005**, 328, 32-7	3.4	49
148	Combination of the loss of cmnm5U34 with the lack of s2U34 modifications of tRNALys, tRNAGlu, and tRNAGln altered mitochondrial biogenesis and respiration. *Journal of Molecular Biology*, **2010**, 395, 1038-48	6.5	48

147	Extremely low penetrance of deafness associated with the mitochondrial 12S rRNA mutation in 16 Chinese families: implication for early detection and prevention of deafness. *Biochemical and Biophysical Research Communications*, **2006**, 340, 194-9	3.4	48
146	Mitochondrial tRNA mutations associated with deafness. *Mitochondrion*, **2012**, 12, 406-13	4.9	47
145	Clinical and molecular characterization of a Chinese patient with auditory neuropathy associated with mitochondrial 12S rRNA T1095C mutation. *American Journal of Medical Genetics, Part A*, **2005**, 133A, 27-30	2.5	47
144	Genetic Correction of Induced Pluripotent Stem Cells From a Deaf Patient With MYO7A Mutation Results in Morphologic and Functional Recovery of the Derived Hair Cell-Like Cells. *Stem Cells Translational Medicine*, **2016**, 5, 561-71	6.9	47
143	Mitochondrial tRNAThr G15927A mutation may modulate the phenotypic manifestation of ototoxic 12S rRNA A1555G mutation in four Chinese families. *Pharmacogenetics and Genomics*, **2008**, 18, 1059-70	1.9	46
142	Coronary heart disease is associated with a mutation in mitochondrial tRNA. *Human Molecular Genetics*, **2013**, 22, 4064-73	5.6	45
141	A Deafness- and Diabetes-associated tRNA Mutation Causes Deficient Pseudouridinylation at Position 55 in tRNAGlu and Mitochondrial Dysfunction. *Journal of Biological Chemistry*, **2016**, 291, 21029-21041	5.4	44
140	Leber's hereditary optic neuropathy is associated with mitochondrial ND1 T3394C mutation. *Biochemical and Biophysical Research Communications*, **2009**, 383, 286-92	3.4	44
139	Mutations in MTO2 related to tRNA modification impair mitochondrial gene expression and protein synthesis in the presence of a paromomycin resistance mutation in mitochondrial 15 S rRNA. *Journal of Biological Chemistry*, **2005**, 280, 29151-7	5.4	44
138	A Hypertension-Associated tRNAAla Mutation Alters tRNA Metabolism and Mitochondrial Function. *Molecular and Cellular Biology*, **2016**, 36, 1920-30	4.8	44
137	A hypertension-associated mitochondrial DNA mutation introduces an mG37 modification into tRNA, altering its structure and function. *Journal of Biological Chemistry*, **2018**, 293, 1425-1438	5.4	44
136	Extremely low penetrance of Leber's hereditary optic neuropathy in 8 Han Chinese families carrying the ND4 G11778A mutation. *Ophthalmology*, **2009**, 116, 558-564.e3	7.3	43
135	Clinical and molecular analysis of a four-generation Chinese family with aminoglycoside-induced and nonsyndromic hearing loss associated with the mitochondrial 12S rRNA C1494T mutation. *Biochemical and Biophysical Research Communications*, **2006**, 340, 583-8	3.4	43
134	Very low penetrance of hearing loss in seven Han Chinese pedigrees carrying the deafness-associated 12S rRNA A1555G mutation. *Gene*, **2007**, 393, 11-9	3.8	42
133	Clinical evaluation and mitochondrial DNA sequence analysis in three Chinese families with Leber's hereditary optic neuropathy. *Biochemical and Biophysical Research Communications*, **2005**, 332, 614-21	3.4	41
132	Prevalence of Mitochondrial ND4 Mutations in 1281 Han Chinese Subjects With Leber's Hereditary Optic Neuropathy **2015**, 56, 4778-88		40
131	Mitochondrial variants may influence the phenotypic manifestation of Leber's hereditary optic neuropathy-associated ND4 G11778A mutation. *Journal of Genetics and Genomics*, **2008**, 35, 649-55	4	40
130	Cosegregation of the ND4 G11696A mutation with the LHON-associated ND4 G11778A mutation in a four generation Chinese family. *Mitochondrion*, **2007**, 7, 140-6	4.9	40

129	Biochemical Evidence for a Nuclear Modifier Allele (A10S) in TRMU (Methylaminomethyl-2-thiouridylate-methyltransferase) Related to Mitochondrial tRNA Modification in the Phenotypic Manifestation of Deafness-associated 12S rRNA Mutation. *Journal of Biological Chemistry*, **2017**, 292, 2881-2892	5.4	38
128	Leber's hereditary optic neuropathy (LHON)-associated ND5 12338T > C mutation altered the assembly and function of complex I, apoptosis and mitophagy. *Human Molecular Genetics*, **2018**, 27, 1999-2011	5.6	38
127	Maternally inherited hearing loss is associated with the novel mitochondrial tRNA Ser(UCN) 7505T>C mutation in a Han Chinese family. *Molecular Genetics and Metabolism*, **2010**, 100, 57-64	3.7	38
126	Leber's hereditary optic neuropathy is associated with mitochondrial ND6 T14502C mutation. *Biochemical and Biophysical Research Communications*, **2009**, 389, 466-72	3.4	38
125	Mitochondrial ND5 T12338C, tRNA(Cys) T5802C, and tRNA(Thr) G15927A variants may have a modifying role in the phenotypic manifestation of deafness-associated 12S rRNA A1555G mutation in three Han Chinese pedigrees. *American Journal of Medical Genetics, Part A*, **2008**, 146A, 1248-58	2.5	38
124	Maternally inherited hypertension is associated with the mitochondrial tRNA(Ile) A4295G mutation in a Chinese family. *Biochemical and Biophysical Research Communications*, **2008**, 367, 906-11	3.4	37
123	Leber's hereditary optic neuropathy is associated with the mitochondrial ND4 G11696A mutation in five Chinese families. *Biochemical and Biophysical Research Communications*, **2006**, 340, 69-75	3.4	37
122	A coronary artery disease-associated tRNAThr mutation altered mitochondrial function, apoptosis and angiogenesis. *Nucleic Acids Research*, **2019**, 47, 2056-2074	20.1	37
121	Molecular pathogenetic mechanism of maternally inherited deafness. *Annals of the New York Academy of Sciences*, **2004**, 1011, 259-71	6.5	36
120	Maternally transmitted late-onset non-syndromic deafness is associated with the novel heteroplasmic T12201C mutation in the mitochondrial tRNAHis gene. *Journal of Medical Genetics*, **2011**, 48, 682-90	5.8	35
119	Maternally inherited aminoglycoside-induced and nonsyndromic hearing loss is associated with the 12S rRNA C1494T mutation in three Han Chinese pedigrees. *Gene*, **2007**, 401, 4-11	3.8	35
118	Frequency and spectrum of mitochondrial ND6 mutations in 1218 Han Chinese subjects with Leber's hereditary optic neuropathy **2014**, 55, 1321-31		34
117	A peep into mitochondrial disorder: multifaceted from mitochondrial DNA mutations to nuclear gene modulation. *Protein and Cell*, **2015**, 6, 862-70	7.2	33
116	Mitochondrial haplogroup M9a specific variant ND1 T3394C may have a modifying role in the phenotypic expression of the LHON-associated ND4 G11778A mutation. *Molecular Genetics and Metabolism*, **2010**, 101, 192-9	3.7	33
115	The tRNAMet 4435A>G mutation in the mitochondrial haplogroup G2a1 is responsible for maternally inherited hypertension in a Chinese pedigree. *European Journal of Human Genetics*, **2011** , 19, 1181-6	5.3	33
114	Coexistence of mitochondrial 12S rRNA C1494T and CO1/tRNA(Ser(UCN)) G7444A mutations in two Han Chinese pedigrees with aminoglycoside-induced and non-syndromic hearing loss. *Biochemical and Biophysical Research Communications*, **2007**, 362, 94-100	3.4	33
113	Only male matrilineal relatives with Leber's hereditary optic neuropathy in a large Chinese family carrying the mitochondrial DNA G11778A mutation. *Biochemical and Biophysical Research Communications*, **2005**, 328, 1139-45	3.4	33
112	Very high penetrance and occurrence of Leber's hereditary optic neuropathy in a large Han Chinese pedigree carrying the ND4 G11778A mutation. *Molecular Genetics and Metabolism*, **2010**, 100, 379-84	3.7	32

111	Pathogenic mutations of nuclear genes associated with mitochondrial disorders. *Acta Biochimica Et Biophysica Sinica*, **2009**, 41, 179-87	2.8	32
110	The mitochondrial tRNA(Ala) T5628C variant may have a modifying role in the phenotypic manifestation of the 12S rRNA C1494T mutation in a large Chinese family with hearing loss. *Biochemical and Biophysical Research Communications*, **2007**, 357, 554-60	3.4	32
109	Mitochondrial tRNASer(UCN) gene is the hot spot for mutations associated with aminoglycoside-induced and non-syndromic hearing loss. *Biochemical and Biophysical Research Communications*, **2007**, 361, 133-9	3.4	32
108	Inhibiting neddylation modification alters mitochondrial morphology and reprograms energy metabolism in cancer cells. *JCI Insight*, **2019**, 4,	9.9	31
107	Aminoglycoside-induced and non-syndromic hearing loss is associated with the G7444A mutation in the mitochondrial COI/tRNASer(UCN) genes in two Chinese families. *Biochemical and Biophysical Research Communications*, **2006**, 342, 843-50	3.4	31
106	The effect of the mtDNA4834 deletion on hearing. *Biochemical and Biophysical Research Communications*, **2006**, 344, 425-30	3.4	31
105	Mitochondrial DNA mutations associated with aminoglycoside induced ototoxicity. *Journal of Otology*, **2017**, 12, 1-8	1.9	30
104	CXCR4-mediated signaling regulates autophagy and influences acute myeloid leukemia cell survival and drug resistance. *Cancer Letters*, **2018**, 425, 1-12	9.9	30
103	Leber's hereditary optic neuropathy is associated with the T3866C mutation in mitochondrial ND1 gene in three Han Chinese Families **2012**, 53, 4586-94		29
102	Clinical evaluation and mitochondrial DNA sequence analysis in two Chinese families with aminoglycoside-induced and non-syndromic hearing loss. *Biochemical and Biophysical Research Communications*, **2005**, 336, 967-73	3.4	29
101	A novel ADOA-associated OPA1 mutation alters the mitochondrial function, membrane potential, ROS production and apoptosis. *Scientific Reports*, **2017**, 7, 5704	4.9	28
100	Mitochondrial tRNA variants in Chinese subjects with coronary heart disease. *Journal of the American Heart Association*, **2014**, 3, e000437	6	28
99	Human TRMU encoding the mitochondrial 5-methylaminomethyl-2-thiouridylate-methyltransferase is a putative nuclear modifier gene for the phenotypic expression of the deafness-associated 12S rRNA mutations. *Biochemical and Biophysical Research Communications*, **2006**, 342, 1130-6	3.4	28
98	Mitochondrial ND1 Variants in 1281 Chinese Subjects With Leber's Hereditary Optic Neuropathy **2016**, 57, 2377-89		28
97	A deafness-associated tRNAAsp mutation alters the m1G37 modification, aminoacylation and stability of tRNAAsp and mitochondrial function. *Nucleic Acids Research*, **2016**, 44, 10974-10985	20.1	28
96	Leber's hereditary optic neuropathy caused by the homoplasmic ND1 m.3635G>A mutation in nine Han Chinese families. *Mitochondrion*, **2014**, 18, 18-26	4.9	27
95	Biochemical evidence for a mitochondrial genetic modifier in the phenotypic manifestation of Leber's hereditary optic neuropathy-associated mitochondrial DNA mutation. *Human Molecular Genetics*, **2016**, 25, 3613-3625	5.6	26
94	Mitochondrial tRNA mutations in 2070 Chinese Han subjects with hypertension. *Mitochondrion*, **2016**, 30, 208-21	4.9	25

93	Leber's hereditary optic neuropathy is associated with the T12338C mutation in mitochondrial ND5 gene in six Han Chinese families. *Ophthalmology*, **2011**, 118, 978-85	7.3	25
92	GJB2 Mutation Spectrum and Genotype-Phenotype Correlation in 1067 Han Chinese Subjects with Non-Syndromic Hearing Loss. *PLoS ONE*, **2015**, 10, e0128691	3.7	25
91	Modeling autosomal dominant optic atrophy using induced pluripotent stem cells and identifying potential therapeutic targets. *Stem Cell Research and Therapy*, **2016**, 7, 2	8.3	23
90	The altered activity of complex III may contribute to the high penetrance of Leber's hereditary optic neuropathy in a Chinese family carrying the ND4 G11778A mutation. *Mitochondrion*, **2011**, 11, 871-7	4.9	23
89	Mitochondrial ND6 T14502C variant may modulate the phenotypic expression of LHON-associated G11778A mutation in four Chinese families. *Biochemical and Biophysical Research Communications*, **2010**, 399, 647-53	3.4	23
88	Biallelic mutations in the ferredoxin reductase gene cause novel mitochondriopathy with optic atrophy. *Human Molecular Genetics*, **2017**, 26, 4937-4950	5.6	22
87	Contribution of the tRNA 4317A->G mutation to the phenotypic manifestation of the deafness-associated mitochondrial 12S rRNA 1555A->G mutation. *Journal of Biological Chemistry*, **2018**, 293, 3321-3334	5.4	22
86	Maternally inherited diabetes is associated with a homoplasmic T10003C mutation in the mitochondrial tRNA(Gly) gene. *Mitochondrion*, **2015**, 21, 49-57	4.9	22
85	Biochemical characterization of the deafness-associated mitochondrial tRNASer(UCN) A7445G mutation in osteosarcoma cell cybrids. *Biochemical and Biophysical Research Communications*, **2005**, 328, 491-8	3.4	22
84	A hypertension-associated mitochondrial DNA mutation alters the tertiary interaction and function of tRNA. *Journal of Biological Chemistry*, **2017**, 292, 13934-13946	5.4	21
83	The mitochondrial tRNA(Glu) A14693G mutation may influence the phenotypic manifestation of ND1 G3460A mutation in a Chinese family with Leber's hereditary optic neuropathy. *Biochemical and Biophysical Research Communications*, **2007**, 357, 524-30	3.4	21
82	PRICKLE3 linked to ATPase biogenesis manifested Leber's hereditary optic neuropathy. *Journal of Clinical Investigation*, **2020**, 130, 4935-4946	15.9	21
81	The mitochondrial ND1 T3308C mutation in a Chinese family with the secondary hypertension. *Biochemical and Biophysical Research Communications*, **2008**, 368, 18-22	3.4	20
80	Frequency and spectrum of mitochondrial 12S rRNA variants in 440 Han Chinese hearing impaired pediatric subjects from two otology clinics. *Journal of Translational Medicine*, **2011**, 9, 4	8.5	19
79	Leber's hereditary optic neuropathy affects only female matrilineal relatives in two Chinese families **2010**, 51, 4906-12		19
78	Identification and characterization of mouse TRMU gene encoding the mitochondrial 5-methylaminomethyl-2-thiouridylate-methyltransferase. *Biochimica Et Biophysica Acta Gene Regulatory Mechanisms*, **2004**, 1676, 119-26		19
77	Mitochondrial tRNA(Ser(UCN)) variants in 2651 Han Chinese subjects with hearing loss. *Mitochondrion*, **2015**, 23, 17-24	4.9	18
76	Deletion of Mtu1 (Trmu) in zebrafish revealed the essential role of tRNA modification in mitochondrial biogenesis and hearing function. *Nucleic Acids Research*, **2018**, 46, 10930-10945	20.1	18

75	Mitochondrial tRNA mutations are associated with maternally inherited hypertension in two Han Chinese pedigrees. *Human Mutation*, **2012**, 33, 1285-93	4.7	18
74	Mitochondrial tRNA(Glu) A14693G variant may modulate the phenotypic manifestation of deafness-associated 12S rRNA A1555G mutation in a Han Chinese family. *Journal of Genetics and Genomics*, **2009**, 36, 241-50	4	18
73	Maternally transmitted diabetes mellitus associated with the mitochondrial tRNA(Leu(UUR)) A3243G mutation in a four-generation Han Chinese family. *Biochemical and Biophysical Research Communications*, **2006**, 348, 115-9	3.4	18
72	Identification and characterization of mouse MTO1 gene related to mitochondrial tRNA modification. *Biochimica Et Biophysica Acta Gene Regulatory Mechanisms*, **2003**, 1629, 53-9		18
71	The defective expression of gtpbp3 related to tRNA modification alters the mitochondrial function and development of zebrafish. *International Journal of Biochemistry and Cell Biology*, **2016**, 77, 1-9	5.6	18
70	Deletion of Gtpbp3 in zebrafish revealed the hypertrophic cardiomyopathy manifested by aberrant mitochondrial tRNA metabolism. *Nucleic Acids Research*, **2019**, 47, 5341-5355	20.1	17
69	Mitochondrial haplotypes may modulate the phenotypic manifestation of the LHON-associated m.14484T>C (MT-ND6) mutation in Chinese families. *Mitochondrion*, **2013**, 13, 772-81	4.9	17
68	Mutation in MTO1 involved in tRNA modification impairs mitochondrial RNA metabolism in the yeast Saccharomyces cerevisiae. *Mitochondrion*, **2009**, 9, 180-5	4.9	17
67	Mutations at position 7445 in the precursor of mitochondrial tRNA(Ser(UCN)) gene in three maternal Chinese pedigrees with sensorineural hearing loss. *Mitochondrion*, **2008**, 8, 285-92	4.9	17
66	The coexistence of mitochondrial ND6 T14484C and 12S rRNA A1555G mutations in a Chinese family with Leber's hereditary optic neuropathy and hearing loss. *Biochemical and Biophysical Research Communications*, **2007**, 357, 910-6	3.4	17
65	Mitochondrial biogenesis dysfunction and metabolic dysfunction from a novel mitochondrial tRNA 4467 C>A mutation in a Han Chinese family with maternally inherited hypertension. *Scientific Reports*, **2017**, 7, 3034	4.9	16
64	Deletion of the MTO2 gene related to tRNA modification causes a failure in mitochondrial RNA metabolism in the yeast Saccharomyces cerevisiae. *FEBS Letters*, **2007**, 581, 4228-34	3.8	16
63	The ND4 G11696A mutation may influence the phenotypic manifestation of the deafness-associated 12S rRNA A1555G mutation in a four-generation Chinese family. *Biochemical and Biophysical Research Communications*, **2007**, 362, 670-6	3.4	15
62	Mitochondrial tRNA mutations in Chinese hypertensive individuals. *Mitochondrion*, **2016**, 28, 1-7	4.9	14
61	The 12S rRNA A1555G mutation in the mitochondrial haplogroup D5a is responsible for maternally inherited hypertension and hearing loss in two Chinese pedigrees. *European Journal of Human Genetics*, **2012**, 20, 607-12	5.3	14
60	Leber's hereditary optic neuropathy is associated with the mitochondrial ND6 T14484C mutation in three Chinese families. *Biochemical and Biophysical Research Communications*, **2006**, 347, 221-5	3.4	14
59	Mitochondrial haplotypes may modulate the phenotypic manifestation of the LHON-associated ND1 G3460A mutation in Chinese families. *Journal of Human Genetics*, **2014**, 59, 134-40	4.3	13
58	Contribution of mitochondrial ND1 3394T>C mutation to the phenotypic manifestation of Leber's hereditary optic neuropathy. *Human Molecular Genetics*, **2019**, 28, 1515-1529	5.6	13

57	Hypertension-associated mitochondrial DNA 4401A>G mutation caused the aberrant processing of tRNAMet, all 8 tRNAs and ND6 mRNA in the light-strand transcript. *Nucleic Acids Research*, **2019**, 47, 10340-10356	20.1	12
56	Leber's hereditary optic neuropathy is potentially associated with a novel m.5587T>C mutation in two pedigrees. *Molecular Medicine Reports*, **2017**, 16, 8997-9004	2.9	12
55	Aminoglycoside stress together with the 12S rRNA 1494C>T mutation leads to mitophagy. *PLoS ONE*, **2014**, 9, e114650	3.7	12
54	A Comprehensive Characterization of Mitochondrial Genome in Papillary Thyroid Cancer. *International Journal of Molecular Sciences*, **2016**, 17,	6.3	12
53	Contribution of a mitochondrial tyrosyl-tRNA synthetase mutation to the phenotypic expression of the deafness-associated tRNA 7511A>G mutation. *Journal of Biological Chemistry*, **2019**, 294, 19292-19305	5.4	12
52	Molecular dynamics simulations on apo ADP/ATP carrier shed new lights on the featured motif of the mitochondrial carriers. *Mitochondrion*, **2019**, 47, 94-102	4.9	11
51	Mitochondrial tRNA mutations in 887 Chinese subjects with hearing loss. *Mitochondrion*, **2020**, 52, 163-172	4.9	11
50	Loss of MED1 triggers mitochondrial biogenesis in C2C12 cells. *Mitochondrion*, **2014**, 14, 18-25	4.9	11
49	Low penetrance of Leber's hereditary optic neuropathy in ten Han Chinese families carrying the ND6 T11484C mutation. *Biochimica Et Biophysica Acta - General Subjects*, **2010**, 1800, 305-12	4	11
48	Mitochondrial haplogroup B increases the risk for hearing loss among the Eastern Asian pedigrees carrying 12S rRNA 1555A>G mutation. *Protein and Cell*, **2015**, 6, 844-8	7.2	10
47	Very low penetrance of Leber's hereditary optic neuropathy in five Han Chinese families carrying the ND1 G3460A mutation. *Molecular Genetics and Metabolism*, **2010**, 99, 417-24	3.7	10
46	Extremely low penetrance of deafness associated with the mitochondrial 12S rRNA T1095C mutation in three Chinese families. *Biochemical and Biophysical Research Communications*, **2006**, 348, 200-5	3.4	10
45	A new point mutation in the nuclear gene of yeast mitochondrial RNA polymerase, RPO41, identifies a functionally important amino-acid residue in a protein region conserved among mitochondrial core enzymes. *Current Genetics*, **1996**, 30, 389-95	2.9	10
44	Complex I mutations synergize to worsen the phenotypic expression of Leber's hereditary optic neuropathy. *Journal of Biological Chemistry*, **2020**, 295, 13224-13238	5.4	10
43	Mitochondrial haplogroup D4j specific variant m.11696G > a(MT-ND4) may increase the penetrance and expressivity of the LHON-associated m.11778G > a mutation in Chinese pedigrees. *Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis*, **2017**, 28, 434-441	1.3	9
42	Homoplasmy of the G7444A mtDNA and heterozygosity of the GJB2 c.35delG mutations in a family with hearing loss. *International Journal of Pediatric Otorhinolaryngology*, **2011**, 75, 89-94	1.7	9
41	Leber's hereditary optic neuropathy caused by a mutation in mitochondrial tRNA in eight Chinese pedigrees. *Mitochondrion*, **2018**, 42, 84-91	4.9	9
40	A deafness-associated tRNA mutation caused pleiotropic effects on the m1G37 modification, processing, stability and aminoacylation of tRNAIle and mitochondrial translation. *Nucleic Acids Research*, **2021**, 49, 1075-1093	20.1	9

39	Association of MTHFR C677T polymorphism and type 2 diabetes mellitus (T2DM) susceptibility. *Molecular Genetics & Genomic Medicine*, **2019**, 7, e1020	2.3	8
38	Rational design of an EGF-IL18 fusion protein: implication for developing tumor therapeutics. *Biochemical and Biophysical Research Communications*, **2005**, 334, 157-61	3.4	8
37	Asymmetrical effects of deafness-associated mitochondrial DNA 7516delA mutation on the processing of RNAs in the H-strand and L-strand polycistronic transcripts. *Nucleic Acids Research*, **2020**, 48, 11113-11129	20.1	7
36	Overexpression of human mitochondrial alanyl-tRNA synthetase suppresses biochemical defects of the mt-tRNA mutation in cybrids. *International Journal of Biological Sciences*, **2018**, 14, 1437-1444	11.2	7
35	Mechanistic insights into mitochondrial tRNA 3'-end metabolism deficiency. *Journal of Biological Chemistry*, **2021**, 297, 100816	5.4	7
34	Late onset nonsyndromic hearing loss in a Dongxiang Chinese family is associated with the 593T>C variant in the mitochondrial tRNA gene. *Mitochondrion*, **2017**, 35, 111-118	4.9	6
33	A Critical E-box in 3' Enhancer Is Essential for Auditory Hair Cell Differentiation. *Cells*, **2019**, 8,	7.9	6
32	A novel OPA1 mutation in a Chinese family with autosomal dominant optic atrophy. *Biochemical and Biophysical Research Communications*, **2012**, 419, 670-5	3.4	6
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