Vittoria Petruzzella

List of Publications by Year
in descending order

64 papers	3,242 citations	201575 27 h-index	155592 55 g-index
65 all docs	65 docs citations	65 times ranked	4614 citing authors

#	Article	IF	Citations
1	Interaction of COMT Val^{108/158}Met Genotype and Olanzapine Treatment on Prefrontal Cortical Function in Patients With Schizophrenia. American Journal of Psychiatry, 2004, 161, 1798-1805.	4.0	281
2	Additive Effects of Genetic Variation in Dopamine Regulating Genes on Working Memory Cortical Activity in Human Brain. Journal of Neuroscience, 2006, 26, 3918-3922.	1.7	208
3	The Oxidative Phosphorylation System in Mammalian Mitochondria. Advances in Experimental Medicine and Biology, 2012, 942, 3-37.	0.8	198
4	Reduced transcription of mitochondrial DNA in the senescent rat. Tissue dependence and effect of l-carnitine. FEBS Journal, 1990, 187, 501-506.	0.2	180
5	Molecular analysis of the muscle pathology associated with mitochondrial DNA deletions. Nature Genetics, 1992, 1, 359-367.	9.4	156
6	Prefrontal-Hippocampal Coupling During Memory Processing Is Modulated by COMT Val158Met Genotype. Biological Psychiatry, 2006, 60, 1250-1258.	0.7	153
7	Identification and Characterization of Human cDNAs Specific to BCS1, PET112, SCO1, COX15, and COX11, Five Genes Involved in the Formation and Function of the Mitochondrial Respiratory Chain. Genomics, 1998, 54, 494-504.	1.3	144
8	Dysfunctions of Cellular Oxidative Metabolism in Patients with Mutations in the NDUFS1 and NDUFS4 Genes of Complex I. Journal of Biological Chemistry, 2006, 281, 10374-10380.	1.6	128
9	A nonsense mutation in the NDUFS4 gene encoding the 18 kDa (AQDQ) subunit of complex I abolishes assembly and activity of the complex in a patient with Leigh-like syndrome. Human Molecular Genetics, 2001, 10, 529-535.	1.4	120
10	Pathological Mutations of the Human NDUFS4 Gene of the 18-kDa (AQDQ) Subunit of Complex I Affect the Expression of the Protein and the Assembly and Function of the Complex. Journal of Biological Chemistry, 2003, 278, 44161-44167.	1.6	120
11	HmtDB, a genomic resource for mitochondrion-based human variability studies. Nucleic Acids Research, 2012, 40, D1150-D1159.	6.5	82
12	Mitochondrial DNA metabolism in early development of zebrafish (Danio rerio). Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1002-1011.	0.5	78
13	Reduced synthesis of mtRNA in isolated mitochondria of senescent rat brain. Biochemical and Biophysical Research Communications, 1991, 176, 645-653.	1.0	76
14	Respiratory chain complex I, a main regulatory target of the cAMP/PKA pathway is defective in different human diseases. FEBS Letters, 2012, 586, 568-577.	1.3	75
15	Pontocerebellar hypoplasia type 6 caused by mutations in RARS2: definition of the clinical spectrum and molecular findings in five patients. Journal of Inherited Metabolic Disease, 2013, 36, 43-53.	1.7	70
16	New Morphological Approaches to the Study of Mitochondrial Encephalomyopathies. Brain Pathology, 1992, 2, 113-119.	2.1	67
17	Lipid Composition in Synaptic and Nonsynaptic Mitochondria from Rat Brains and Effect of Aging. Journal of Neurochemistry, 1992, 59, 487-491.	2.1	65
18	Clinical heterogeneity in patients with mutations in the NDUFS4 gene of mitochondrial complex I. Journal of Inherited Metabolic Disease, 2003, 26, 813-815.	1.7	59

#	Article	IF	Citations
19	The NADH: ubiquinone oxidoreductase (complex I) of the mammalian respiratory chain and the cAMP cascade. Journal of Bioenergetics and Biomembranes, 2002, 34, 1-10.	1.0	57
20	Mutations in human nuclear genes encoding for subunits of mitochondrial respiratory complex I: the NDUFS4 gene. Gene, 2002, 286, 149-154.	1.0	54
21	Prefrontal dysfunction in schizophrenia controlling for COMT Val158Met genotype and working memory performance. Psychiatry Research - Neuroimaging, 2006, 147, 221-226.	0.9	53
22	Is a point mutation in the mitochondrial ND2 gene associated with alzheimer's disease?. Biochemical and Biophysical Research Communications, 1992, 186, 491-497.	1.0	52
23	Mitochondrial DNA copy number differentiates the Leberâ€™s hereditary optic neuropathy affected individuals from the unaffected mutation carriers. Brain, 2016, 139, e1-e1.	3.7	39
24	Complex I and the cAMP Cascade in Human Physiopathology. Bioscience Reports, 2002, 22, 3-16.	1.1	38
25	High Mitochondrial DNA Copy Number Is a Protective Factor From Vision Loss in Heteroplasmic Leber's Hereditary Optic Neuropathy (LHON). , 2017, 58, 2193.		37
26	Pathogenetic mechanisms in hereditary dysfunctions of complex I of the respiratory chain in neurological diseases. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 502-517.	0.5	33
27	Mitochondrial DNA variants and risk of familial breast cancer: An exploratory study. International Journal of Oncology, 2014, 44, 1691-1698.	1.4	33
28	In vivo effect of acetyl-l-carnitine on succinate oxidation, adenine nucleotide pool and lipid composition of synaptic and non-synaptic mitochondria from cerebral hemispheres of senescent rats. Archives of Gerontology and Geriatrics, 1992, 14, 131-144.	1.4	31
29	Bilateral striatal necrosis, dystonia and multiple mitochondrial DNA deletions: Case study and effect of deep brain stimulation. Movement Disorders, 2008, 23, 114-118.	2.2	30
30	A new locus on 3p23â€“p25 for an autosomal-dominant limb-girdle muscular dystrophy, LGMD1H. European Journal of Human Genetics, 2010, 18, 636-641.	1.4	27
31	Mitochondrial DNA copy number in affected and unaffected LHON mutation carriers. BMC Research Notes, 2018, 11, 911.	0.6	25
32	Faithful and highly efficient RNA synthesis in isolated mitochondria from rat liver. Current Genetics, 1988, 14, 477-482.	0.8	21
33	A Novel Insertion Mutation (A169i) in the CLN1 Gene Is Associated with Infantile Neuronal Ceroid Lipofuscinosis in an Italian Patient. Biochemical and Biophysical Research Communications, 1998, 245, 519-522.	1.0	19
34	Mutations in theNDUFS4gene of mitochondrial complex I alter stability of the splice variants. FEBS Letters, 2005, 579, 3770-3776.	1.3	19
35	RCC1L (WBSCR16) isoforms coordinate mitochondrial ribosome assembly through their interaction with GTPases. PLoS Genetics, 2020, 16, e1008923.	1.5	18
36	Disorders of nuclear-mitochondrial intergenomic signalling. Journal of Bioenergetics and Biomembranes, 1997, 29, 121-130.	1.0	16

#	Article	IF	Citations
37	Fishing in the Cell Powerhouse: Zebrafish as A Tool for Exploration of Mitochondrial Defects Affecting the Nervous System. International Journal of Molecular Sciences, 2019, 20, 2409.	1.8	16
38	Cerebellar ataxia as atypical manifestation of the 3243A>G MELAS mutation. Clinical Genetics, 2003, 65, 64-65.	1.0	15
39	Deep sequencing unearths Nuclear mitochondrial Sequences under Leber's hereditary optic neuropathy-associated false heteroplasmic mitochondrial DNA variants. Human Molecular Genetics, 2012, 21, 3753-3764.	1.4	15
40	Late-onset Leber hereditary optic neuropathy mimicking Susacâ€™s syndrome. Journal of Neurology, 2010, 257, 1999-2003.	1.8	14
41	Mitochondrial genome aberrations in skeletal muscle of patients with motor neuron disease. Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration, 2013, 14, 261-266.	1.1	14
42	Age-Dependent Structural Variations in Rat Brain Mitochondrial DNA. Annals of the New York Academy of Sciences, 1992, 673, 194-199.	1.8	13
43	Respiratory Complex I in Brain Development and Genetic Disease. Neurochemical Research, 2004, 29, 547-560.	1.6	13
44	The NDUFB11 gene is not a modifier in Leber hereditary optic neuropathy. Biochemical and Biophysical Research Communications, 2007, 355, 181-187.	1.0	13
45	CMT2A Harboring Mitofusin 2 Mutation with Optic Nerve Atrophy and Normal Visual Acuity . International Medical Case Reports Journal, 2020, Volume 13, 41-45.	0.3	12
46	Dysfunction of Mitochondrial Respiratory Chain Complex I in Neurological Disorders: Genetics and Pathogenetic Mechanisms. Advances in Experimental Medicine and Biology, 2012, 942, 371-384.	0.8	12
47	The regulation of PTC containing transcripts of the human NDUFS4 gene of complex I of respiratory chain and the impact of pathological mutations. Biochimie, 2008, 90, 1452-1460.	1.3	11
48	Mutations in structural genes of complex I associated with neurological diseases. Italian Journal of Biochemistry, 2006, 55, 254-62.	0.3	10
49	Alteration of mitochondrial DNA and RNA level in human fibroblasts with impaired vitamin B12 coenzyme synthesis. FEBS Letters, 1998, 432, 173-178.	1.3	9
50	Mitochondrial genome large rearrangements in the skeletal muscle of a patient with <scp>PMA</scp>. European Journal of Neurology, 2012, 19, e63-4.	1.7	9
51	Differential expression ofATPAF1andATPAF2genes encoding F1-ATPase assembly proteins in mouse tissues. FEBS Letters, 2003, 551, 42-46.	1.3	8
52	Molecular analysis in a family presenting with a mild form of late-onset autosomal dominant chronic progressive external ophthalmoplegia. Neuromuscular Disorders, 2009, 19, 423-426.	0.3	8
53	TRIM8 Blunts the Pro-proliferative Action of Î”Np63Î± in a p53 Wild-Type Background. Frontiers in Oncology, 2019, 9, 1154.	1.3	8
54	1.5 Electron Transport. Structure, Redox-Coupled Protonmotive Activity, and Pathological Disorders of Respiratory Chain Complexes. , 2007, , 93-118.		8

#	Article	IF	Citations
55	Leberâ€™s hereditary optic neuropathy, intellectual disability and epilepsy presenting with variable penetrance associated to the m.3460Gâ€‰›A mutation and a heteroplasmic expansion of the microsatellite in MTRNR1 gene â€“ case report. BMC Medical Genetics, 2018, 19, 129.	2.1	7
56	Leber's hereditary optic neuropathy (LHON) in an Apulian cohort of subjects. Acta Myologica, 2017, 36, 163-177.	1.5	7
57	Decrease of D-loop frequency in heart and cerebral hemispheres mitochondrial DNA of aged rat. Molecular and Chemical Neuropathology, 1995, 24, 193-202.	1.0	6
58	Unusual clinical presentation of a patient carrying a novel single 1.8 kb deletion of mitochondrial DNA. Functional Neurology, 2006, 21, 39-41.	1.3	6
59	Mitochondrial Disease Mimicking Polymyositis: A Case Report. Clinical Rheumatology, 2002, 21, 411-414.	1.0	5
60	Bilateral progressive visual loss in an epileptic, mentally retarded boy. Middle East African Journal of Ophthalmology, 2011, 18, 67.	0.5	5
61	Tackling Dysfunction of Mitochondrial Bioenergetics in the Brain. International Journal of Molecular Sciences, 2021, 22, 8325.	1.8	5
62	Bi-allelic variants in MTMR5/SBF1 cause Charcot-Marie-Tooth type 4B3 featuring mitochondrial dysfunction. BMC Medical Genomics, 2021, 14, 157.	0.7	2
63	Author Response: Increased mtDNA Copy Number Protects Against LHON. , 2018, 59, 331.		1
64	Author Response: Do High mtDNA Copy Numbers Truly Prevent LHON Manifestations?. , 2017, 58, 4077.		0