

Marcela Votruba

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

99
papers

8,625
citations

29
h-index

92
g-index

115
ext. papers

9,484
ext. citations

5.5
avg, IF

4.96
L-index

#	Paper	IF	Citations
99	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012 , 8, 445-544.	4.2	2783
98	LDL receptor-related protein 5 (LRP5) affects bone accrual and eye development. <i>Cell</i> , 2001 , 107, 513-23.	6.2	1827
97	OPA1, encoding a dynamin-related GTPase, is mutated in autosomal dominant optic atrophy linked to chromosome 3q28. <i>Nature Genetics</i> , 2000 , 26, 211-5	36.3	1039
96	Opa1 deficiency in a mouse model of autosomal dominant optic atrophy impairs mitochondrial morphology, optic nerve structure and visual function. <i>Human Molecular Genetics</i> , 2007 , 16, 1307-18	5.6	319
95	Multi-system neurological disease is common in patients with OPA1 mutations. <i>Brain</i> , 2010 , 133, 771-86	11.2	314
94	OPA1 mutation and late-onset cardiomyopathy: mitochondrial dysfunction and mtDNA instability. <i>Journal of the American Heart Association</i> , 2012 , 1, e003012	6	128
93	Clinical features in affected individuals from 21 pedigrees with dominant optic atrophy. <i>JAMA Ophthalmology</i> , 1998 , 116, 351-8		127
92	A major marker for normal tension glaucoma: association with polymorphisms in the OPA1 gene. <i>Human Genetics</i> , 2002 , 110, 52-6	6.3	101
91	Treatment strategies for inherited optic neuropathies: past, present and future. <i>Eye</i> , 2014 , 28, 521-37	4.4	98
90	Clinical features, molecular genetics, and pathophysiology of dominant optic atrophy. <i>Journal of Medical Genetics</i> , 1998 , 35, 793-800	5.8	91
89	A neurodegenerative perspective on mitochondrial optic neuropathies. <i>Acta Neuropathologica</i> , 2016 , 132, 789-806	14.3	90
88	Opa1 deficiency in a mouse model of dominant optic atrophy leads to retinal ganglion cell dendropathy. <i>Brain</i> , 2010 , 133, 2942-51	11.2	84
87	International Consensus Statement on the Clinical and Therapeutic Management of Leber Hereditary Optic Neuropathy. <i>Journal of Neuro-Ophthalmology</i> , 2017 , 37, 371-381	2.6	84
86	OPA1 deficiency associated with increased autophagy in retinal ganglion cells in a murine model of dominant optic atrophy 2009 , 50, 2567-71		76
85	Opa1 is essential for retinal ganglion cell synaptic architecture and connectivity. <i>Brain</i> , 2012 , 135, 493-505.	11.2	74
84	Optic disc morphology of patients with OPA1 autosomal dominant optic atrophy. <i>British Journal of Ophthalmology</i> , 2003 , 87, 48-53	5.5	71
83	Retinal ganglion cell dendritic degeneration in a mouse model of Alzheimer's disease. <i>Neurobiology of Aging</i> , 2013 , 34, 1799-806	5.6	69

82	Comparative study of fibrillar collagen arrangement in the corneas of primates and other mammals. <i>Anatomical Record</i> , 2007 , 290, 1542-50	2.1	65
81	A comprehensive survey of mutations in the OPA1 gene in patients with autosomal dominant optic atrophy. <i>Investigative Ophthalmology and Visual Science</i> , 2002 , 43, 1715-24		62
80	Dysregulated mitophagy and mitochondrial organization in optic atrophy due to OPA1 mutations. <i>Neurology</i> , 2017 , 88, 131-142	6.5	60
79	A frameshift mutation in exon 28 of the OPA1 gene explains the high prevalence of dominant optic atrophy in the Danish population: evidence for a founder effect. <i>Human Genetics</i> , 2001 , 109, 498-502	6.3	54
78	Electrophysiological findings in dominant optic atrophy (DOA) linking to the OPA1 locus on chromosome 3q 28-qter. <i>Documenta Ophthalmologica</i> , 1998 , 95, 217-28	2.2	46
77	Molecular genetic basis of primary inherited optic neuropathies. <i>Eye</i> , 2004 , 18, 1126-32	4.4	45
76	Neovascular age-related macular degeneration: present and future treatment options. <i>Eye</i> , 2001 , 15, 424-9	4.4	45
75	Developmental expression profile of the optic atrophy gene product: OPA1 is not localized exclusively in the mammalian retinal ganglion cell layer. <i>Investigative Ophthalmology and Visual Science</i> , 2004 , 45, 1667-73		42
74	Childhood-onset Leber hereditary optic neuropathy. <i>British Journal of Ophthalmology</i> , 2017 , 101, 1505-1509	5.9	34
73	A missense mutation in the murine Opa3 gene models human Costeff syndrome. <i>Brain</i> , 2008 , 131, 368-80	1.2	30
72	SSBP1 mutations in dominant optic atrophy with variable retinal degeneration. <i>Annals of Neurology</i> , 2019 , 86, 368-383	9.4	29
71	The Sight Loss and Vision Priority Setting Partnership (SLV-PSP): overview and results of the research prioritisation survey process. <i>BMJ Open</i> , 2014 , 4, e004905	3	29
70	Colour discrimination ellipses in patients with dominant optic atrophy. <i>Vision Research</i> , 1998 , 38, 3413-9	2.1	27
69	Mouse models of dominant optic atrophy: what do they tell us about the pathophysiology of visual loss?. <i>Vision Research</i> , 2011 , 51, 229-34	2.1	26
68	Demonstration of a founder effect and fine mapping of dominant optic atrophy locus on 3q28-qter by linkage disequilibrium method: a study of 38 British Isles pedigrees. <i>Human Genetics</i> , 1998 , 102, 79-86	6.3	26
67	Focus on molecules: the OPA1 protein. <i>Experimental Eye Research</i> , 2006 , 83, 1003-4	3.7	24
66	Electrophysiology and ocular blood flow in a family with dominant optic nerve atrophy and a mutation in the OPA1 gene. <i>Ophthalmic Genetics</i> , 2003 , 24, 233-45	1.2	24
65	Real-World Clinical Experience With Idebenone in the Treatment of Leber Hereditary Optic Neuropathy. <i>Journal of Neuro-Ophthalmology</i> , 2020 , 40, 558-565	2.6	24

64	Can the retina be used to diagnose and plot the progression of Alzheimer's disease?. <i>Acta Ophthalmologica</i> , 2017 , 95, 768-777	3.7	23
63	Novel OPA1 missense mutation in a family with optic atrophy and severe widespread neurological disorder. <i>Acta Ophthalmologica</i> , 2013 , 91, e225-31	3.7	23
62	A review of primary hereditary optic neuropathies. <i>Journal of Inherited Metabolic Disease</i> , 2003 , 26, 209-274	3.7	23
61	Genetic refinement of dominant optic atrophy (OPA1) locus to within a 2 cM interval of chromosome 3q. <i>Journal of Medical Genetics</i> , 1997 , 34, 117-21	5.8	22
60	MRI of the intraorbital optic nerve in patients with autosomal dominant optic atrophy. <i>Neuroradiology</i> , 2000 , 42, 180-3	3.2	22
59	A randomized, placebo-controlled trial of the benzoquinone idebenone in a mouse model of OPA1-related dominant optic atrophy reveals a limited therapeutic effect on retinal ganglion cell dendropathy and visual function. <i>Neuroscience</i> , 2016 , 319, 92-106	3.9	21
58	Mitochondrial dysfunction in an Opa1(Q285STOP) mouse model of dominant optic atrophy results from Opa1 haploinsufficiency. <i>Cell Death and Disease</i> , 2016 , 7, e2309	9.8	20
57	The pupil in dominant optic atrophy. <i>Investigative Ophthalmology and Visual Science</i> , 2001 , 42, 675-8		20
56	The pattern of retinal ganglion cell dysfunction in Leber hereditary optic neuropathy. <i>Mitochondrion</i> , 2017 , 36, 138-149	4.9	19
55	Specific deficits in visual electrophysiology in a mouse model of dominant optic atrophy. <i>Experimental Eye Research</i> , 2011 , 93, 771-7	3.7	19
54	Secondary mtDNA defects do not cause optic nerve dysfunction in a mouse model of dominant optic atrophy 2009 , 50, 4561-6		19
53	Non-image-forming light driven functions are preserved in a mouse model of autosomal dominant optic atrophy. <i>PLoS ONE</i> , 2013 , 8, e56350	3.7	18
52	Opa3, a novel regulator of mitochondrial function, controls thermogenesis and abdominal fat mass in a mouse model for Costeff syndrome. <i>Human Molecular Genetics</i> , 2012 , 21, 4836-44	5.6	18
51	Mutations in the m-AAA proteases AFG3L2 and SPG7 are causing isolated dominant optic atrophy. <i>Neurology: Genetics</i> , 2020 , 6, e428	3.8	18
50	The management of solitary trichoepithelioma versus basal cell carcinoma. <i>Eye</i> , 1998 , 12 (Pt 1), 43-6	4.4	15
49	Clinical utility gene card for: inherited optic neuropathies including next-generation sequencing-based approaches. <i>European Journal of Human Genetics</i> , 2019 , 27, 494-502	5.3	15
48	Changes in corneal collagen architecture during mouse postnatal development 2010 , 51, 2936-42		14
47	Mitochondrial localization and ocular expression of mutant Opa3 in a mouse model of 3-methylglutaconicaciduria type III 2011 , 52, 4369-80		14

46	Clinical and molecular genetic findings in autosomal dominant OPA3-related optic neuropathy. <i>Neurogenetics</i> , 2015 , 16, 69-75	3	13
45	Symmetric arrangement of mitochondria:plasma membrane contacts between adjacent photoreceptor cells regulated by Opa1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 15684-15693	11.5	13
44	Incidence and patterns of detection and management of childhood-onset hereditary retinal disorders in the UK. <i>British Journal of Ophthalmology</i> , 2012 , 96, 360-5	5.5	13
43	Photostimulation of mitochondria as a treatment for retinal neurodegeneration. <i>Mitochondrion</i> , 2017 , 36, 85-95	4.9	12
42	The Pattern of Retinal Ganglion Cell Loss in OPA1-Related Autosomal Dominant Optic Atrophy Inferred From Temporal, Spatial, and Chromatic Sensitivity Losses 2017 , 58, 502-516		12
41	Peripapillary microcirculation in Leber hereditary optic neuropathy. <i>Acta Ophthalmologica</i> , 2019 , 97, e71-e76	3.7	12
40	Nicotinamide provides neuroprotection in glaucoma by protecting against mitochondrial and metabolic dysfunction. <i>Redox Biology</i> , 2021 , 43, 101988	11.3	12
39	Opa1 Deficiency Leads to Diminished Mitochondrial Bioenergetics With Compensatory Increased Mitochondrial Motility 2020 , 61, 42		11
38	Electrophysiological ON and OFF Responses in Autosomal Dominant Optic Atrophy 2015 , 56, 7629-37		10
37	Potential Therapeutic Benefit of NAD Supplementation for Glaucoma and Age-Related Macular Degeneration. <i>Nutrients</i> , 2020 , 12,	6.7	10
36	The ying and yang of idebenone: Not too little, not too much - cell death in NQO1 deficient cells and the mouse retina. <i>Free Radical Biology and Medicine</i> , 2020 , 152, 551-560	7.8	9
35	Perceptions and understanding of genetics and genetic eye disease and attitudes to genetic testing and gene therapy in a primary eye care setting. <i>Ophthalmic Genetics</i> , 2015 , 36, 50-7	1.2	8
34	Primary monophasic synovial sarcoma of the conjunctiva. <i>British Journal of Ophthalmology</i> , 2002 , 86, 1453-4	5.5	8
33	Visual and psychological morbidity among patients with autosomal dominant optic atrophy. <i>Acta Ophthalmologica</i> , 2013 , 91, e413-4	3.7	7
32	The Relationship Between the Photopic Negative Response and Retinal Ganglion Cell Topography 2019 , 60, 1879-1887		6
31	Red Light Treatment in an Axotomy Model of Neurodegeneration. <i>Photochemistry and Photobiology</i> , 2016 , 92, 624-31	3.6	6
30	Validating the RedMIT/GFP-LC3 Mouse Model by Studying Mitophagy in Autosomal Dominant Optic Atrophy Due to the OPA1Q285STOP Mutation. <i>Frontiers in Cell and Developmental Biology</i> , 2018 , 6, 103	5.7	6
29	OPA1 analysis in an international series of probands with bilateral optic atrophy. <i>Acta Ophthalmologica</i> , 2017 , 95, 363-369	3.7	5

28	Disrupted mitochondrial function in the Opa3L122P mouse model for Costeff Syndrome impairs skeletal integrity. <i>Human Molecular Genetics</i> , 2016 , 25, 2404-2416	5.6	5
27	Leber's optic neuropathy - visual return on alcohol cessation. <i>Acta Ophthalmologica</i> , 2012 , 90, e568	3.7	5
26	Thymoxamine in the treatment of traumatic mydriasis. <i>British Journal of Ophthalmology</i> , 1993 , 77, 681	5.5	4
25	Dominant optic atrophy: exclusion and fine genetic mapping of the candidate gene, HRY. <i>Mammalian Genome</i> , 1998 , 9, 784-7	3.2	3
24	OPA1 deficiency accelerates hippocampal synaptic remodelling and age-related deficits in learning and memory. <i>Brain Communications</i> , 2020 , 2, fcaa101	4.5	3
23	Discovery of Novel 2-Aniline-1,4-naphthoquinones as Potential New Drug Treatment for Leber's Hereditary Optic Neuropathy (LHON). <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 13638-13655	8.3	3
22	A novel NR2E3 gene mutation in autosomal recessive retinitis pigmentosa with cystic maculopathy. <i>Acta Ophthalmologica</i> , 2018 , 96, e535-e536	3.7	3
21	Retinal changes in a patient with acquired partial lipodystrophy (Laignel-Lavastine and Viard Syndrome). <i>Acta Ophthalmologica</i> , 2015 , 93, e598-9	3.7	2
20	Nicotinamide provides neuroprotection in glaucoma by protecting against mitochondrial and metabolic dysfunction		2
19	Opa1 Deficiency Promotes Development of Retinal Vascular Lesions in Diabetic Retinopathy. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
18	Red Light Irradiation In Vivo Upregulates DJ-1 in the Retinal Ganglion Cell Layer and Protects against Axotomy-Related Dendritic Pruning. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
17	Real-World Clinical Experience With Idebenone in the Treatment of Leber Hereditary Optic Neuropathy-Response to Dr. Finsterer's Letter. <i>Journal of Neuro-Ophthalmology</i> , 2021 ,	2.6	2
16	Mean cellular volume in a patient with Leber's optic neuropathy and visual return on alcohol cessation. <i>Acta Ophthalmologica</i> , 2014 , 92, e77	3.7	1
15	The case of the disappearing bullet. <i>Eye</i> , 1994 , 8 (Pt 1), 143-4	4.4	1
14	The UK Sight Loss and Vision Priority Setting Partnership (SLV-PSP): Vision research questions prioritised by patients and health care professionals. <i>Acta Ophthalmologica</i> , 2013 , 91, 0-0	3.7	1
13	Inherited Optic Neuropathies 2008 , 51-67		0
12	Inherited dominant optic neuropathy: from clinical studies to gene function and back again. <i>Drug Discovery Today: Disease Models</i> , 2013 , 10, e173-e180	1.3	
11	Association between autosomal dominant optic atrophy and Ewing sarcoma. <i>Journal of Pediatric Hematology/Oncology</i> , 1999 , 21, 557-9	1.2	

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| 10 | Visual dysfunction and pupillary responses are dissociated in the Opa3 mutant mouse with retinal degeneration. <i>Acta Ophthalmologica</i> , 2014 , 92, 0-0 | 3-7 |
| 9 | Specific deficits in visual electrophysiology without retinal cellular apoptosis in a mouse model of dominant optic atrophy. <i>Acta Ophthalmologica</i> , 2010 , 88, 0-0 | 3-7 |
| 8 | No retinal apoptosis in mouse model of Opa1 dominant optic atrophy despite visual loss. <i>Acta Ophthalmologica</i> , 2010 , 88, 0-0 | 3-7 |
| 7 | Dendritic pruning of retinal ganglion cells in a mouse model of dominant optic atrophy (ADOA). <i>Acta Ophthalmologica</i> , 2010 , 88, 0-0 | 3-7 |
| 6 | Heterozygous B6;C3-Opa1Q285STOP mouse model of dominant optic atrophy displays subtle neuromuscular features with age. <i>Acta Ophthalmologica</i> , 2010 , 88, 0-0 | 3-7 |
| 5 | Changes in retinal neuronal connectivity in a mouse model of dominant optic atrophy. <i>Acta Ophthalmologica</i> , 2011 , 89, 0-0 | 3-7 |
| 4 | Mitochondrial optic neuropathies. <i>Acta Ophthalmologica</i> , 2012 , 90, 0-0 | 3-7 |
| 3 | Ganglion Cell Diseases 2014 , 427-440 | |
| 2 | A Perspective on Accelerated Aging Caused by the Genetic Deficiency of the Metabolic Protein, OPA1. <i>Frontiers in Neurology</i> , 2021 , 12, 641259 | 4-1 |
| 1 | New avenues for therapy in mitochondrial optic neuropathies. <i>Therapeutic Advances in Rare Disease</i> , 2021 , 2, 263300402110290 | 1-4 |