Visvanathan Ramamurthy

List of Publications by Year
in descending order

43 papers	1,760 citations	257357 24 h-index	289141 40 g-index
47 all docs	47 docs citations	47 times ranked	1914 citing authors

#	Article	IF	Citations
1	The Musashi proteins MSI1 and MSI2 are required for photoreceptor morphogenesis and vision in mice. Journal of Biological Chemistry, 2021, 296, 100048.	1.6	19
2	Phosphomimetic Mutations Impact Huntingtin Aggregation in the Presence of a Variety of Lipid Systems. Biochemistry, 2020, 59, 4681-4693.	1.2	7
3	Retinal Organoids derived from hiPSCs of an AIPL1-LCA Patient Maintain Cytoarchitecture despite Reduced levels of Mutant AIPL1. Scientific Reports, 2020, 10, 5426.	1.6	39
4	Rhodopsin signaling mediates light-induced photoreceptor cell death in rd10 mice through a transducin-independent mechanism. Human Molecular Genetics, 2020, 29, 394-406.	1.4	39
5	Proteoglycan IMPG2 Shapes the Interphotoreceptor Matrix and Modulates Vision. Journal of Neuroscience, 2020, 40, 4059-4072.	1.7	25
6	Mutations in ARL2BP, a protein required for ciliary microtubule structure, cause syndromic male infertility in humans and mice. PLoS Genetics, 2019, 15, e1008315.	1.5	19
7	Loss of MPC1 reprograms retinal metabolism to impair visual function. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3530-3535.	3.3	83
8	ARL13B, a Joubert Syndrome-Associated Protein, Is Critical for Retinogenesis and Elaboration of Mouse Photoreceptor Outer Segments. Journal of Neuroscience, 2019, 39, 1347-1364.	1.7	38
9	The Dynamic and Complex Role of theÂJoubert Syndrome-Associated Ciliary Protein, ADP-Ribosylation Factor-Like GTPase 13B (ARL13B) in Photoreceptor Development and Maintenance. Advances in Experimental Medicine and Biology, 2019, 1185, 501-505.	0.8	3
10	Bardetâ€“Biedl syndrome-8 (BBS8) protein is crucial for the development of outer segments in photoreceptor neurons. Human Molecular Genetics, 2018, 27, 283-294.	1.4	55
11	ADP-Ribosylation Factor-Like 2 (ARL2) regulates cilia stability and development of outer segments in rod photoreceptor neurons. Scientific Reports, 2018, 8, 16967.	1.6	11
12	Cone Phosphodiesterase-6Î³â€™ Subunit Augments Cone PDE6 Holoenzyme Assembly and Stability in a Mouse Model Lacking Both Rod and Cone PDE6 Catalytic Subunits. Frontiers in Molecular Neuroscience, 2018, 11, 233.	1.4	7
13	ARL2BP, a protein linked to retinitis pigmentosa, is needed for normal photoreceptor cilia doublets and outer segment structure. Molecular Biology of the Cell, 2018, 29, 1590-1598.	0.9	15
14	Deficiency of Isoprenylcysteine Carboxyl Methyltransferase (ICMT) Leads to Progressive Loss of Photoreceptor Function. Journal of Neuroscience, 2016, 36, 5107-5114.	1.7	11
15	ARL3 regulates trafficking of prenylated phototransduction proteins to the rod outer segment. Human Molecular Genetics, 2016, 25, 2031-2044.	1.4	43
16	The Musashi 1 Controls the Splicing of Photoreceptor-Specific Exons in the Vertebrate Retina. PLoS Genetics, 2016, 12, e1006256.	1.5	61
17	Analysis of Alternative Pre-RNA Splicing in the Mouse Retina Using a Fluorescent Reporter. Methods in Molecular Biology, 2016, 1421, 269-286.	0.4	1
18	Viral-mediated vision rescue of a novel AIPL1 cone-rod dystrophy model. Human Molecular Genetics, 2015, 24, 670-684.	1.4	11

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19	Alternative Splicing Shapes the Phenotype of a Mutation in BBS8 To Cause Nonsyndromic Retinitis Pigmentosa. Molecular and Cellular Biology, 2015, 35, 1860-1870.	1.1	44
20	Early Alteration of Retinal Neurons inAipl1^{â^'/â^'}Animals. , 2014, 55, 3081.		30
21	AIPL1, A protein linked to blindness, is essential for the stability of enzymes mediating cGMP metabolism in cone photoreceptor cells. Human Molecular Genetics, 2014, 23, 1002-1012.	1.4	23
22	Cone Phosphodiesterase-6Â' Restores Rod Function and Confers Distinct Physiological Properties in the Rod Phosphodiesterase-6Â-Deficient rd10 Mouse. Journal of Neuroscience, 2013, 33, 11745-11753.	1.7	22
23	Transducin translocation contributes to rod survival and enhances synaptic transmission from rods to rod bipolar cells. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12468-12473.	3.3	39
24	Splice Isoforms of Phosducin-like Protein Control the Expression of Heterotrimeric G Proteins. Journal of Biological Chemistry, 2013, 288, 25760-25768.	1.6	11
25	Greasing the protein biosynthesis machinery of photoreceptor neurons. Cellular Logistics, 2012, 2, 15-19.	0.9	6
26	Gene therapy using self-complementary Y733F capsid mutant AAV2/8 restores vision in a model of early onset Leber congenital amaurosis. Human Molecular Genetics, 2011, 20, 4569-4581.	1.4	43
27	RAS-converting enzyme 1-mediated endoproteolysis is required for trafficking of rod phosphodiesterase 6 to photoreceptor outer segments. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8862-8866.	3.3	36
28	Rod Phosphodiesterase-6 (PDE6) Catalytic Subunits Restore Cone Function in a Mouse Model Lacking Cone PDE6 Catalytic Subunit. Journal of Biological Chemistry, 2011, 286, 33252-33259.	1.6	21
29	The Leber congenital amaurosis protein, AIPL1, is needed for the viability and functioning of cone photoreceptor cells. Human Molecular Genetics, 2010, 19, 1076-1087.	1.4	59
30	AIPL1, a Protein Associated with Childhood Blindness, Interacts with Î±-Subunit of Rod Phosphodiesterase (PDE6) and Is Essential for Its Proper Assembly. Journal of Biological Chemistry, 2009, 284, 30853-30861.	1.6	57
31	Rod photoreceptor differentiation in fetal and infant human retina. Experimental Eye Research, 2008, 87, 415-426.	1.2	111
32	Biochemical Function of the LCA Linked Protien, Aryl Hydrocarbon Receptor Interacting Protein Like-1 (AIPL1). , 2006, 572, 89-94.		3
33	The Zebrafish pob Gene Encodes a Novel Protein Required for Survival of Red Cone Photoreceptor CellsSequence data from this article have been deposited with the EMBL/GenBank Data Libraries under accession no. AY745978.. Genetics, 2005, 170, 263-273.	1.2	41
34	Leber congenital amaurosis linked to AIPL1: A mouse model reveals destabilization of cGMP phosphodiesterase. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13897-13902.	3.3	164
35	Zebrafish rx3 and mab21l2 are required during eye morphogenesis. Developmental Biology, 2004, 270, 336-349.	0.9	73
36	Functional analyses of mutant recessive GUCY2D alleles identified in Leber congenital amaurosis patients: protein domain comparisons and dominant negative effects. Molecular Vision, 2004, 10, 297-303.	1.1	30

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37	AIPL1, a protein implicated in Leber's congenital amaurosis, interacts with and aids in processing of farnesylated proteins. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 12630-12635.	3.3	78
38	Interactions within the Coiled-coil Domain of RetGC-1 Guanylyl Cyclase Are Optimized for Regulation Rather than for High Affinity. Journal of Biological Chemistry, 2001, 276, 26218-26229.	1.6	84
39	Nucleotide Binding Activity of SecA Homodimer Is Conformationally Regulated by Temperature and Altered byprlD and azi Mutations. Journal of Biological Chemistry, 2000, 275, 15440-15448.	1.6	43
40	Functional characterization of missense mutations at codon 838 in retinal guanylate cyclase correlates with disease severity in patients with autosomal dominant cone-rod dystrophy. Human Molecular Genetics, 2000, 9, 3065-3073.	1.4	83
41	secG and Temperature Modulate Expression of Azide-Resistant and Signal Sequence Suppressor Phenotypes of Escherichia coli secA Mutants. Journal of Bacteriology, 1998, 180, 6419-6423.	1.0	3
42	Topology of the Integral Membrane Form of Escherichia coli SecA Protein Reveals Multiple Periplasmically Exposed Regions and Modulation by ATP Binding. Journal of Biological Chemistry, 1997, 272, 23239-23246.	1.6	101
43	Identification of a Region of Interaction between Escherichia coli SecA and SecY Proteins. Journal of Biological Chemistry, 1997, 272, 11302-11306.	1.6	68