

Steven J Pittler

List of Publications by Year in descending order

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51
papers

3,238
citations

236925

25
h-index

223800

46
g-index

51
all docs

51
docs citations

51
times ranked

2365
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of a nonsense mutation in the rod photoreceptor cGMP phosphodiesterase beta-subunit gene of the rd mouse.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 8322-8326.	7.1	581
2	Retinal-specific guanylate cyclase gene mutations in Leber's congenital amaurosis. Nature Genetics, 1996, 14, 461-464.	21.4	433
3	Rapid restoration of visual pigment and function with oral retinoid in a mouse model of childhood blindness. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 8623-8628.	7.1	292
4	Identifying photoreceptors in blind eyes caused by RPE65 mutations: Prerequisite for human gene therapy success. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 6177-6182.	7.1	249
5	Autosomal recessive retinitis pigmentosa caused by mutations in the β subunit of rod cGMP phosphodiesterase. Nature Genetics, 1995, 11, 468-471.	21.4	233
6	PCR analysis of DNA from 70-year-old sections of rodless retina demonstrates identity with the mouse rd defect.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 9616-9619.	7.1	196
7	Three-Dimensional Architecture of the Rod Sensory Cilium and Its Disruption in Retinal Neurodegeneration. Cell, 2012, 151, 1029-1041.	28.9	142
8	Molecular characterization of human and bovine rod photoreceptor cGMP phosphodiesterase β -subunit and chromosomal localization of the human gene. Genomics, 1990, 6, 272-283.	2.9	105
9	Knockout of GARPs and the β -subunit of the rod cGMP-gated channel disrupts disk morphogenesis and rod outer segment structural integrity. Journal of Cell Science, 2009, 122, 1192-1200.	2.0	84
10	In vivo biosynthesis of cholesterol in the rat retina. FEBS Letters, 1993, 335, 234-238.	2.8	57
11	Functional Analysis of the Rod Photoreceptor cGMP Phosphodiesterase β -Subunit Gene Promoter. Journal of Biological Chemistry, 2004, 279, 19800-19807.	3.4	54
12	Four novel mutations in the RPE65 gene in patients with Leber congenital amaurosis. Human Mutation, 2001, 18, 164-164.	2.5	52
13	Complete cDNA sequences of mouse rod photoreceptor cGMP phosphodiesterase β - and β^2 -subunits, and identification of β^2 , a putative β^2 -subunit isozyme produced by alternative splicing of the β^2 -subunit gene. FEBS Letters, 1991, 278, 107-114.	2.8	50
14	Characterization of a Canine Model of Autosomal Recessive Retinitis Pigmentosa due to a PDE6A Mutation. , 2009, 50, 801.		48
15	Genomic organization of the human rod photoreceptor cGMP-gated cation channel β^2 -subunit gene. Gene, 2000, 245, 311-318.	2.2	47
16	Investigation of the hyper-reflective inner/outer segment band in optical coherence tomography of living frog retina. Journal of Biomedical Optics, 2012, 17, 060504.	2.6	39
17	Electroretinographic Abnormalities in Parents of Patients With Leber Congenital Amaurosis Who Have Heterozygous GUCY2D Mutations. JAMA Ophthalmology, 2002, 120, 1325.	2.4	35
18	Primary structure of frog rhodopsin. FEBS Letters, 1992, 313, 103-108.	2.8	31

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19	HSV antigens and HSV DNA in avascular and vascularized lesions of human herpes simplex keratitis. <i>Current Eye Research</i> , 1991, 10, 63-68.	1.5	30
20	The $\hat{\rho}^2$ subunit of human rod photoreceptor cGMP-gated cation channel is generated from a complex transcription unit. <i>FEBS Letters</i> , 1996, 389, 213-218.	2.8	30
21	A YAC Contig of Approximately 3 Mb from Human Chromosome 5q31 $\hat{\rho}^2$ q33. <i>Genomics</i> , 1994, 19, 470-477.	2.9	28
22	Activation of Retinal Guanylyl Cyclase RetGC1 by GCAP1: Stoichiometry of Binding and Effect of New LCA-Related Mutations. <i>Biochemistry</i> , 2010, 49, 709-717.	2.5	28
23	Cloning and Expression of the Glucocorticoid Receptor from the Squirrel Monkey (<i>Saimiri boliviensis</i>) Tj ETQq1 1 0.784314 rgBT /Overl 1997, 82, 465-472.	3.6	27
24	Chromosome mapping of the rod photoreceptor cGMP phosphodiesterase $\hat{\rho}^2$ -subunit gene in mouse and human: Tight linkage to the Huntington disease region (4p16.3). <i>Genomics</i> , 1992, 12, 750-754.	2.9	26
25	Human Retinal Guanylate Cyclase (GUC2D) Maps to Chromosome 17p13.1. <i>Genomics</i> , 1994, 22, 478-481.	2.9	26
26	Gene Structure and Chromosome Localization to 7q21.3 of the Human Rod Photoreceptor Transducin $\hat{\rho}^3$ -Subunit Gene (GNGT1). <i>Genomics</i> , 1996, 35, 241-243.	2.9	25
27	Dynamic near-infrared imaging reveals transient phototropic change in retinal rod photoreceptors. <i>Journal of Biomedical Optics</i> , 2013, 18, 1.	2.6	25
28	Focus on Molecules: Rod cGMP Phosphodiesterase Type 6. <i>Experimental Eye Research</i> , 2007, 84, 1-2.	2.6	23
29	GARP2 accelerates retinal degeneration in rod cGMP-gated cation channel $\hat{\rho}^2$ -subunit knockout mice. <i>Scientific Reports</i> , 2017, 7, 42545.	3.3	23
30	cDNA, Gene Structure, and Chromosomal Localization of Human GAR1 (CNCG3L), a Homolog of the Third Subunit of Bovine Photoreceptor cGMP-Gated Channel. <i>Genomics</i> , 1995, 28, 32-38.	2.9	22
31	Comparative intrinsic optical signal imaging of wild-type and mutant mouse retinas. <i>Optics Express</i> , 2012, 20, 7646.	3.4	18
32	Syntenic assignments of visual transduction genes in cattle. <i>Genomics</i> , 1992, 14, 699-706.	2.9	17
33	A PDE6A Promoter Fragment Directs Transcription Predominantly in the Photoreceptor. <i>Biochemical and Biophysical Research Communications</i> , 2001, 282, 543-547.	2.1	17
34	Characterization of 3',5' cyclic nucleotide phosphodiesterase activity in Y79 retinoblastoma cells: absence of functional PDE6. <i>Molecular Vision</i> , 2004, 10, 738-49.	1.1	16
35	Retinal Degeneration Caused by Rod-Specific Dhdds Ablation Occurs without Concomitant Inhibition of Protein N-Glycosylation. <i>IScience</i> , 2020, 23, 101198.	4.1	14
36	Overexpression of rod photoreceptor glutamic acid rich protein 2 (GARP2) increases gain and slows recovery in mouse retina. <i>Cell Communication and Signaling</i> , 2014, 12, 67.	6.5	13

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37	Reproducible high efficiency gene transfer into Y79 retinoblastoma cells using adenofection. Journal of Neuroscience Methods, 2001, 106, 1-7.	2.5	12
38	Novel morphological changes in rat retina induced by intravitreal injection of lovastatin. Experimental Eye Research, 1992, 54, 149-152.	2.6	10
39	Structure and upstream region characterization of the human gene encoding rod photoreceptor cGMP phosphodiesterase β -subunit. Journal of Molecular Neuroscience, 1998, 10, 235-250.	2.3	10
40	Role of RDS and Rhodopsin in Cngb1-Related Retinal Degeneration. , 2016, 57, 787.		10
41	Selective Ablation of Dehydrodolichyl Diphosphate Synthase in Murine Retinal Pigment Epithelium (RPE) Causes RPE Atrophy and Retinal Degeneration. Cells, 2020, 9, 771.	4.1	10
42	A new family of the poly-deoxyadenylated class of Drosophila transposable elements identified by a representative member at the dunce locus. Molecular Genetics and Genomics, 1987, 208, 325-328.	2.4	9
43	Varying the GARP2-to-RDS Ratio Leads to Defects in Rim Formation and Rod and Cone Function. , 2015, 56, 8187.		9
44	Lack of Overt Retinal Degeneration in a K42E Dhdds Knock-In Mouse Model of RP59. Cells, 2020, 9, 896.	4.1	9
45	In vitro synthesis of rat brain hexokinase. Biochimica Et Biophysica Acta - General Subjects, 1985, 843, 186-192.	2.4	6
46	Age-related changes in Cngb1-X1 knockout mice: prolonged cone survival. Documenta Ophthalmologica, 2012, 124, 163-175.	2.2	6
47	An interchromosomal gene conversion of the Drosophila dunce locus identified with restriction site polymorphisms: A potential involvement of transposable elements in gene conversion. Molecular Genetics and Genomics, 1987, 208, 315-324.	2.4	5
48	Focus on Molecules: Rod photoreceptor cGMP-gated cation channel. Experimental Eye Research, 2007, 85, 173-174.	2.6	3
49	The B3 Subunit of the Cone Cyclic Nucleotide-gated Channel Regulates the Light Responses of Cones and Contributes to the Channel Structural Flexibility. Journal of Biological Chemistry, 2016, 291, 8721-8734.	3.4	2
50	Knockout of GARPs and the β -subunit of the rod cGMP-gated channel disrupts disk morphogenesis and rod outer segment structural integrity. Journal of Cell Science, 2009, 122, 1927-1927.	2.0	1
51	Molecular Analysis of the Human GAR1 Gene. , 1995, , 331-338.		0