

François Paquet Durand

List of Publications by Year in descending order

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Version: 2024-02-01

89
papers

3,888
citations

136950

32
h-index

149698

56
g-index

101
all docs

101
docs citations

101
times ranked

3562
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoreceptor Cell Death Mechanisms in Inherited Retinal Degeneration. <i>Molecular Neurobiology</i> , 2008, 38, 253-269.	4.0	259
2	Spectral Domain Optical Coherence Tomography in Mouse Models of Retinal Degeneration. , 2009, 50, 5888.		193
3	Identification of a Common Non-Apoptotic Cell Death Mechanism in Hereditary Retinal Degeneration. <i>PLoS ONE</i> , 2014, 9, e112142.	2.5	191
4	Restoration of Cone Vision in the CNGA3 ^{-/-} Mouse Model of Congenital Complete Lack of Cone Photoreceptor Function. <i>Molecular Therapy</i> , 2010, 18, 2057-2063.	8.2	175
5	Calpain is activated in degenerating photoreceptors in the rd1 mouse. <i>Journal of Neurochemistry</i> , 2006, 96, 802-814.	3.9	129
6	Excessive Activation of Poly(ADP-Ribose) Polymerase Contributes to Inherited Photoreceptor Degeneration in the Retinal Degeneration 1 Mouse. <i>Journal of Neuroscience</i> , 2007, 27, 10311-10319.	3.6	124
7	PKG activity causes photoreceptor cell death in two retinitis pigmentosa models. <i>Journal of Neurochemistry</i> , 2009, 108, 796-810.	3.9	113
8	A key role for cyclic nucleotide gated (CNG) channels in cGMP-related retinitis pigmentosa. <i>Human Molecular Genetics</i> , 2011, 20, 941-947.	2.9	103
9	Excessive HDAC activation is critical for neurodegeneration in the rd1 mouse. <i>Cell Death and Disease</i> , 2010, 1, e24-e24.	6.3	100
10	Safety and Vision Outcomes of Subretinal Gene Therapy Targeting Cone Photoreceptors in Achromatopsia. <i>JAMA Ophthalmology</i> , 2020, 138, 643.	2.5	100
11	Calpain and PARP Activation during Photoreceptor Cell Death in P23H and S334ter Rhodopsin Mutant Rats. <i>PLoS ONE</i> , 2011, 6, e22181.	2.5	94
12	Combination of cGMP analogue and drug delivery system provides functional protection in hereditary retinal degeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E2997-E3006.	7.1	90
13	CNTF+BDNF treatment and neuroprotective pathways in the rd1 mouse retina. <i>Brain Research</i> , 2007, 1129, 116-129.	2.2	87
14	Cellular mechanisms of hereditary photoreceptor degeneration – Focus on cGMP. <i>Progress in Retinal and Eye Research</i> , 2020, 74, 100772.	15.5	85
15	cGMP-Prkg1 signaling and Pde5 inhibition shelter cochlear hair cells and hearing function. <i>Nature Medicine</i> , 2012, 18, 252-259.	30.7	82
16	Inhibition of Mitochondrial Pyruvate Transport by Zaprinast Causes Massive Accumulation of Aspartate at the Expense of Glutamate in the Retina. <i>Journal of Biological Chemistry</i> , 2013, 288, 36129-36140.	3.4	72
17	Photoreceptor rescue and toxicity induced by different calpain inhibitors. <i>Journal of Neurochemistry</i> , 2010, 115, 930-940.	3.9	71
18	Retina in a dish: Cell cultures, retinal explants and animal models for common diseases of the retina. <i>Progress in Retinal and Eye Research</i> , 2021, 81, 100880.	15.5	71

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19	PARP1 Gene Knock-Out Increases Resistance to Retinal Degeneration without Affecting Retinal Function. <i>PLoS ONE</i> , 2010, 5, e15495.	2.5	71
20	Calpain-mediated ataxin-3 cleavage in the molecular pathogenesis of spinocerebellar ataxia type 3 (SCA3). <i>Human Molecular Genetics</i> , 2013, 22, 508-518.	2.9	70
21	Calpain activity in retinal degeneration. <i>Journal of Neuroscience Research</i> , 2007, 85, 693-702.	2.9	69
22	Neuroprotective Strategies for the Treatment of Inherited Photoreceptor Degeneration. <i>Current Molecular Medicine</i> , 2012, 12, 598-612.	1.3	68
23	Retinitis pigmentosa: rapid neurodegeneration is governed by slow cell death mechanisms. <i>Cell Death and Disease</i> , 2013, 4, e488-e488.	6.3	67
24	Turning teratocarcinoma cells into neurons: rapid differentiation of NT-2 cells in floating spheres. <i>Developmental Brain Research</i> , 2003, 142, 161-167.	1.7	58
25	Cellular phenotypes of human model neurons (NT2) after differentiation in aggregate culture. <i>Cell and Tissue Research</i> , 2009, 336, 439-452.	2.9	55
26	Characterization of a Mouse Model With Complete RPE Loss and Its Use for RPE Cell Transplantation. , 2014, 55, 5431.		54
27	Study of Gene-Targeted Mouse Models of Splicing Factor Gene <i>Prpf31</i> Implicated in Human Autosomal Dominant Retinitis Pigmentosa (RP). , 2009, 50, 5927.		52
28	Differential Modification of Phosducin Protein in Degenerating rd1 Retina Is Associated with Constitutively Active Ca ²⁺ /Calmodulin Kinase II in Rod Outer Segments. <i>Molecular and Cellular Proteomics</i> , 2006, 5, 324-336.	3.8	51
29	cGMP-dependent cone photoreceptor degeneration in the <i>cpfl1</i> mouse retina. <i>Journal of Comparative Neurology</i> , 2010, 518, 3604-3617.	1.6	50
30	Drug delivery to retinal photoreceptors. <i>Drug Discovery Today</i> , 2019, 24, 1637-1643.	6.4	48
31	DNA methylation and differential gene regulation in photoreceptor cell death. <i>Cell Death and Disease</i> , 2014, 5, e1558-e1558.	6.3	47
32	Olaparib significantly delays photoreceptor loss in a model for hereditary retinal degeneration. <i>Scientific Reports</i> , 2016, 6, 39537.	3.3	45
33	Retinitis pigmentosa: impact of different <i>Pde6</i> point mutations on the disease phenotype. <i>Human Molecular Genetics</i> , 2015, 24, 5486-5499.	2.9	41
34	HDAC inhibition in the <i>cpfl1</i> mouse protects degenerating cone photoreceptors <i>in vivo</i> . <i>Human Molecular Genetics</i> , 2016, 25, ddw275.	2.9	39
35	The cGMP Pathway and Inherited Photoreceptor Degeneration: Targets, Compounds, and Biomarkers. <i>Genes</i> , 2019, 10, 453.	2.4	38
36	Light-Driven Calcium Signals in Mouse Cone Photoreceptors. <i>Journal of Neuroscience</i> , 2012, 32, 6981-6994.	3.6	35

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37	Three-year results of phase I retinal gene therapy trial for CNGA3-mutated achromatopsia: results of a non randomised controlled trial. <i>British Journal of Ophthalmology</i> , 2022, 106, 1567-1572.	3.9	33
38	Targeting connexin hemichannels to control the inflammasome: the correlation between connexin43 and NLRP3 expression in chronic eye disease. <i>Expert Opinion on Therapeutic Targets</i> , 2019, 23, 855-863.	3.4	31
39	Up-regulation and increased phosphorylation of protein kinase C (PKC) δ , ϵ and ζ in the degenerating rd1 mouse retina. <i>Molecular and Cellular Neurosciences</i> , 2006, 31, 759-773.	2.2	30
40	Development of a Chromatic Pupillography Protocol for the First Gene Therapy Trial in Patients With <i>CNGA3</i> -Linked Achromatopsia. , 2017, 58, 1274.		29
41	The role of cGMP-signalling and calcium-signalling in photoreceptor cell death: perspectives for therapy development. <i>Pflugers Archiv European Journal of Physiology</i> , 2021, 473, 1411-1421.	2.8	29
42	Organotypic retinal explant cultures as in vitro alternative for diabetic retinopathy studies. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2016, 33, 459-464.	1.5	29
43	Long-Term, Serum-Free Cultivation of Organotypic Mouse Retina Explants with Intact Retinal Pigment Epithelium. <i>Journal of Visualized Experiments</i> , 2020, , .	0.3	29
44	Calcium dynamics change in degenerating cone photoreceptors. <i>Human Molecular Genetics</i> , 2016, 25, 3729-3740.	2.9	28
45	Human Model Neurons in Studies of Brain Cell Damage and Neural Repair. <i>Current Molecular Medicine</i> , 2007, 7, 541-554.	1.3	27
46	Gene Supplementation Rescues Rod Function and Preserves Photoreceptor and Retinal Morphology in Dogs, Leading the Way Toward Treating Human <i>PDE6A</i> -Retinitis Pigmentosa. <i>Human Gene Therapy</i> , 2017, 28, 1189-1201.	2.7	27
47	Targeted Ablation of the <i>Pde6h</i> Gene in Mice Reveals Cross-species Differences in Cone and Rod Phototransduction Protein Isoform Inventory. <i>Journal of Biological Chemistry</i> , 2015, 290, 10242-10255.	3.4	26
48	Primary Rod and Cone Degeneration Is Prevented by HDAC Inhibition. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1074, 367-373.	1.6	23
49	Temporal progression of PARP activity in the <i>Prph2</i> mutant rd2 mouse: Neuroprotective effects of the PARP inhibitor PJ34. <i>PLoS ONE</i> , 2017, 12, e0181374.	2.5	23
50	Systematic spatiotemporal mapping reveals divergent cell death pathways in three mouse models of hereditary retinal degeneration. <i>Journal of Comparative Neurology</i> , 2020, 528, 1113-1139.	1.6	22
51	HDAC inhibition ameliorates cone survival in retinitis pigmentosa mice. <i>Cell Death and Differentiation</i> , 2021, 28, 1317-1332.	11.2	22
52	Hypoxic/ischaemic cell damage in cultured human NT-2 neurons. <i>Brain Research</i> , 2004, 1011, 33-47.	2.2	21
53	Testing for a Gap Junction-Mediated Bystander Effect in Retinitis Pigmentosa: Secondary Cone Death Is Not Altered by Deletion of Connexin36 from Cones. <i>PLoS ONE</i> , 2013, 8, e57163.	2.5	21
54	Safety and Toxicology of Ocular Gene Therapy with Recombinant AAV Vector rAAV.hCNGA3 in Nonhuman Primates. <i>Human Gene Therapy Clinical Development</i> , 2019, 30, 50-56.	3.1	17

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55	Novel In Situ Activity Assays for the Quantitative Molecular Analysis of Neurodegenerative Processes in the Retina. <i>Current Medicinal Chemistry</i> , 2014, 21, 3478-3493.	2.4	17
56	Gene Therapy Successfully Delays Degeneration in a Mouse Model of PDE6A-Linked Retinitis Pigmentosa (RP43). <i>Human Gene Therapy</i> , 2017, 28, 1180-1188.	2.7	16
57	Diltiazem protects human NT-2 neurons against excitotoxic damage in a model of simulated ischemia. <i>Brain Research</i> , 2006, 1124, 45-54.	2.2	15
58	Cav1.4 L-Type Calcium Channels Contribute to Calpain Activation in Degenerating Photoreceptors of rd1 Mice. <i>PLoS ONE</i> , 2016, 11, e0156974.	2.5	15
59	Physiological assessment of high glucose neurotoxicity in mouse and rat retinal explants. <i>Journal of Comparative Neurology</i> , 2020, 528, 989-1002.	1.6	15
60	Investigating Ex Vivo Animal Models to Test the Performance of Intravitreal Liposomal Drug Delivery Systems. <i>Pharmaceutics</i> , 2021, 13, 1013.	4.5	15
61	Redefining the role of Ca ²⁺ -permeable channels in photoreceptor degeneration using diltiazem. <i>Cell Death and Disease</i> , 2022, 13, 47.	6.3	15
62	Retinitis Pigmentosa: overexpression of anti-ageing protein Klotho in degenerating photoreceptors. <i>Journal of Neurochemistry</i> , 2013, 127, 868-879.	3.9	14
63	Programmed Non-Apoptotic Cell Death in Hereditary Retinal Degeneration: Crosstalk between cGMP-Dependent Pathways and Parthanatos?. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10567.	4.1	14
64	HDAC Inhibition Prevents Rd1 Mouse Photoreceptor Degeneration. <i>Advances in Experimental Medicine and Biology</i> , 2012, 723, 107-113.	1.6	14
65	RD Genes Associated with High Photoreceptor cGMP-Levels (Mini-Review). <i>Advances in Experimental Medicine and Biology</i> , 2019, 1185, 245-249.	1.6	14
66	Knockout of PARG110 confers resistance to cGMP-induced toxicity in mammalian photoreceptors. <i>Cell Death and Disease</i> , 2014, 5, e1234-e1234.	6.3	13
67	Kinase activity profiling identifies putative downstream targets of cGMP/PKG signaling in inherited retinal neurodegeneration. <i>Cell Death Discovery</i> , 2022, 8, 93.	4.7	12
68	A retinal model of cerebral malaria. <i>Scientific Reports</i> , 2019, 9, 3470.	3.3	11
69	Deletion of myosin VI causes slow retinal optic neuropathy and age-related macular degeneration (AMD)-relevant retinal phenotype. <i>Cellular and Molecular Life Sciences</i> , 2015, 72, 3953-3969.	5.4	10
70	Guanylyl Cyclase A/cGMP Signaling Slows Hidden, Age- and Acoustic Trauma-Induced Hearing Loss. <i>Frontiers in Aging Neuroscience</i> , 2020, 12, 83.	3.4	10
71	Imaging Ca ²⁺ Dynamics in Cone Photoreceptor Axon Terminals of the Mouse Retina. <i>Journal of Visualized Experiments</i> , 2015, , e52588.	0.3	9
72	Cytotoxicity of β -Cyclodextrins in Retinal Explants for Intravitreal Drug Formulations. <i>Molecules</i> , 2021, 26, 1492.	3.8	9

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73	PKG-Dependent Cell Death in 661W Cone Photoreceptor-like Cell Cultures (Experimental Study). <i>Advances in Experimental Medicine and Biology</i> , 2018, 1074, 511-517.	1.6	8
74	In Vivo Assessment of Rodent Retinal Structure Using Spectral Domain Optical Coherence Tomography. <i>Advances in Experimental Medicine and Biology</i> , 2012, 723, 489-494.	1.6	7
75	How Long Does a Photoreceptor Cell Take to Die? Implications for the Causative Cell Death Mechanisms. <i>Advances in Experimental Medicine and Biology</i> , 2014, 801, 575-581.	1.6	7
76	Expression of glucose transporterâ€² in murine retina: Evidence for glucose transport from horizontal cells to photoreceptor synapses. <i>Journal of Neurochemistry</i> , 2022, 160, 283-296.	3.9	7
77	Fluorescent detection of PARP activity in unfixed tissue. <i>PLoS ONE</i> , 2021, 16, e0245369.	2.5	6
78	Inherited Retinal Degeneration: PARP-Dependent Activation of Calpain Requires CNG Channel Activity. <i>Biomolecules</i> , 2022, 12, 455.	4.0	6
79	Poly (ADP-Ribose) Polymerase-1 (PARP1) Deficiency and Pharmacological Inhibition by Pirenzepine Protects From Cisplatin-Induced Ototoxicity Without Affecting Antitumor Efficacy. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 406.	3.7	5
80	Cell death of spinal cord ED1+cells in a rat model of multiple sclerosis. <i>PeerJ</i> , 2015, 3, e1189.	2.0	4
81	RNA Biological Characteristics at the Peak of Cell Death in Different Hereditary Retinal Degeneration Mutants. <i>Frontiers in Genetics</i> , 2021, 12, 728791.	2.3	4
82	In vitro Model Systems for Studies Into Retinal Neuroprotection. <i>Frontiers in Neuroscience</i> , 0, 16, .	2.8	4
83	Technological advancements to study cellular signaling pathways in inherited retinal degenerative diseases. <i>Current Opinion in Pharmacology</i> , 2021, 60, 102-110.	3.5	2
84	Expression of Poly(ADP-Ribose) Glycohydrolase in Wild-Type and PARG-110 Knock-Out Retina. <i>Advances in Experimental Medicine and Biology</i> , 2014, 801, 463-469.	1.6	2
85	Efficient Delivery of Hydrophilic Small Molecules to Retinal Cell Lines Using Gel Core-Containing Solid Lipid Nanoparticles. <i>Pharmaceutics</i> , 2022, 14, 74.	4.5	2
86	CHAPTER 3. Modulation of Calcium Overload and Calpain Activity. <i>RSC Drug Discovery Series</i> , 2018, , 48-60.	0.3	1
87	Visualizing Cell Death in Live Retina: Using Calpain Activity Detection as a Biomarker for Retinal Degeneration. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3892.	4.1	1
88	cGMP-Prkg1 signaling PDE5 inhibition shelter cochlear hair cells and hearing function. <i>BMC Pharmacology & Toxicology</i> , 2013, 14, .	2.4	0
89	CHAPTER 6. Modulation of cGMP-signalling to Prevent Retinal Degeneration. <i>RSC Drug Discovery Series</i> , 2018, , 88-98.	0.3	0