FranÃ§ois Paquet Durand

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Photoreceptor Cell Death Mechanisms in Inherited Retinal Degeneration. Molecular Neurobiology, 2008, 38, 253-269.	1.9	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. PLoS ONE, 2014, 9, e112142.	1.1	191
4	Restoration of Cone Vision in the CNGA3â^'/â^' Mouse Model of Congenital Complete Lack of Cone Photoreceptor Function. Molecular Therapy, 2010, 18, 2057-2063.	3.7	175
5	Calpain is activated in degenerating photoreceptors in the rd1 mouse. Journal of Neurochemistry, 2006, 96, 802-814.	2.1	129
6	Excessive Activation of Poly(ADP-Ribose) Polymerase Contributes to Inherited Photoreceptor Degeneration in the Retinal Degeneration 1 Mouse. Journal of Neuroscience, 2007, 27, 10311-10319.	1.7	124
7	PKG activity causes photoreceptor cell death in two retinitis pigmentosa models. Journal of Neurochemistry, 2009, 108, 796-810.	2.1	113
8	A key role for cyclic nucleotide gated (CNG) channels in cGMP-related retinitis pigmentosa. Human Molecular Genetics, 2011, 20, 941-947.	1.4	103
9	Excessive HDAC activation is critical for neurodegeneration in the rd1 mouse. Cell Death and Disease, 2010, 1, e24-e24.	2.7	100
10	Safety and Vision Outcomes of Subretinal Gene Therapy Targeting Cone Photoreceptors in Achromatopsia. JAMA Ophthalmology, 2020, 138, 643.	1.4	100
11	Calpain and PARP Activation during Photoreceptor Cell Death in P23H and S334ter Rhodopsin Mutant Rats. PLoS ONE, 2011, 6, e22181.	1.1	94
12	Combination of cGMP analogue and drug delivery system provides functional protection in hereditary retinal degeneration. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E2997-E3006.	3.3	90
13	CNTF+BDNF treatment and neuroprotective pathways in the rd1 mouse retina. Brain Research, 2007, 1129, 116-129.	1.1	87
14	Cellular mechanisms of hereditary photoreceptor degeneration â€" Focus on cGMP. Progress in Retinal and Eye Research, 2020, 74, 100772.	7.3	85
15	cGMP-Prkg1 signaling and Pde5 inhibition shelter cochlear hair cells and hearing function. Nature Medicine, 2012, 18, 252-259.	15.2	82
16	Inhibition of Mitochondrial Pyruvate Transport by Zaprinast Causes Massive Accumulation of Aspartate at the Expense of Glutamate in the Retina. Journal of Biological Chemistry, 2013, 288, 36129-36140.	1.6	72
17	Photoreceptor rescue and toxicity induced by different calpain inhibitors. Journal of Neurochemistry, 2010, 115, 930-940.	2.1	71
18	Retina in a dish: Cell cultures, retinal explants and animal models for common diseases of the retina. Progress in Retinal and Eye Research, 2021, 81, 100880.	7.3	71

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19	PARP1 Gene Knock-Out Increases Resistance to Retinal Degeneration without Affecting Retinal Function. PLoS ONE, 2010, 5, e15495.	1.1	71
20	Calpain-mediated ataxin-3 cleavage in the molecular pathogenesis of spinocerebellar ataxia type 3 (SCA3). Human Molecular Genetics, 2013, 22, 508-518.	1.4	70
21	Calpain activity in retinal degeneration. Journal of Neuroscience Research, 2007, 85, 693-702.	1.3	69
22	Neuroprotective Strategies for the Treatment of Inherited Photoreceptor Degeneration. Current Molecular Medicine, 2012, 12, 598-612.	0.6	68
23	Retinitis pigmentosa: rapid neurodegeneration is governed by slow cell death mechanisms. Cell Death and Disease, 2013, 4, e488-e488.	2.7	67
24	Turning teratocarcinoma cells into neurons: rapid differentiation of NT-2 cells in floating spheres. Developmental Brain Research, 2003, 142, 161-167.	2.1	58
25	Cellular phenotypes of human model neurons (NT2) after differentiation in aggregate culture. Cell and Tissue Research, 2009, 336, 439-452.	1.5	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 Ca2+/Calmodulin Kinase II in Rod Outer Segments. Molecular and Cellular Proteomics, 2006, 5, 324-336.	2.5	51
29	cGMPâ€dependent cone photoreceptor degeneration in the <i>cpfl1</i> mouse retina. Journal of Comparative Neurology, 2010, 518, 3604-3617.	0.9	50
30	Drug delivery to retinal photoreceptors. Drug Discovery Today, 2019, 24, 1637-1643.	3.2	48
31	DNA methylation and differential gene regulation in photoreceptor cell death. Cell Death and Disease, 2014, 5, e1558-e1558.	2.7	47
32	Olaparib significantly delays photoreceptor loss in a model for hereditary retinal degeneration. Scientific Reports, 2016, 6, 39537.	1.6	45
33	Retinitis pigmentosa: impact of differentPde6apoint mutations on the disease phenotype. Human Molecular Genetics, 2015, 24, 5486-5499.	1.4	41
34	HDAC inhibition in the<i>cpfl1</i>mouse protects degenerating cone photoreceptors<i>in vivo</i>. Human Molecular Genetics, 2016, 25, ddw275.	1.4	39
35	The cGMP Pathway and Inherited Photoreceptor Degeneration: Targets, Compounds, and Biomarkers. Genes, 2019, 10, 453.	1.0	38
36	Light-Driven Calcium Signals in Mouse Cone Photoreceptors. Journal of Neuroscience, 2012, 32, 6981-6994.	1.7	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. British Journal of Ophthalmology, 2022, 106, 1567-1572.	2.1	33
38	Targeting connexin hemichannels to control the inflammasome: the correlation between connexin43 and NLRP3 expression in chronic eye disease. Expert Opinion on Therapeutic Targets, 2019, 23, 855-863.	1.5	31
39	Up-regulation and increased phosphorylation of protein kinase C (PKC) Î´, Î¼ and Î¸ in the degenerating rd1 mouse retina. Molecular and Cellular Neurosciences, 2006, 31, 759-773.	1.0	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. Pflugers Archiv European Journal of Physiology, 2021, 473, 1411-1421.	1.3	29
42	Organotypic retinal explant cultures as in vitro alternative for diabetic retinopathy studies. ALTEX: Alternatives To Animal Experimentation, 2016, 33, 459-464.	0.9	29
43	Long-Term, Serum-Free Cultivation of Organotypic Mouse Retina Explants with Intact Retinal Pigment Epithelium. Journal of Visualized Experiments, 2020, , .	0.2	29
44	Calcium dynamics change in degenerating cone photoreceptors. Human Molecular Genetics, 2016, 25, 3729-3740.	1.4	28
45	Human Model Neurons in Studies of Brain Cell Damage and Neural Repair. Current Molecular Medicine, 2007, 7, 541-554.	0.6	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. Human Gene Therapy, 2017, 28, 1189-1201.	1.4	27
47	Targeted Ablation of the Pde6h Gene in Mice Reveals Cross-species Differences in Cone and Rod Phototransduction Protein Isoform Inventory. Journal of Biological Chemistry, 2015, 290, 10242-10255.	1.6	26
48	Primary Rod and Cone Degeneration Is Prevented by HDAC Inhibition. Advances in Experimental Medicine and Biology, 2018, 1074, 367-373.	0.8	23
49	Temporal progression of PARP activity in the Prph2 mutant rd2 mouse: Neuroprotective effects of the PARP inhibitor PJ34. PLoS ONE, 2017, 12, e0181374.	1.1	23
50	Systematic spatiotemporal mapping reveals divergent cell death pathways in three mouse models of hereditary retinal degeneration. Journal of Comparative Neurology, 2020, 528, 1113-1139.	0.9	22
51	HDAC inhibition ameliorates cone survival in retinitis pigmentosa mice. Cell Death and Differentiation, 2021, 28, 1317-1332.	5.0	22
52	Hypoxic/ischaemic cell damage in cultured human NT-2 neurons. Brain Research, 2004, 1011, 33-47.	1.1	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. PLoS ONE, 2013, 8, e57163.	1.1	21
54	Safety and Toxicology of Ocular Gene Therapy with Recombinant AAV Vector rAAV.hCNGA3 in Nonhuman Primates. Human Gene Therapy Clinical Development, 2019, 30, 50-56.	3.2	17

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55	Novel In Situ Activity Assays for the Quantitative Molecular Analysis of Neurodegenerative Processes in the Retina. Current Medicinal Chemistry, 2014, 21, 3478-3493.	1.2	17
56	Gene Therapy Successfully Delays Degeneration in a Mouse Model ofPDE6A-Linked Retinitis Pigmentosa (RP43). Human Gene Therapy, 2017, 28, 1180-1188.	1.4	16
57	Diltiazem protects human NT-2 neurons against excitotoxic damage in a model of simulated ischemia. Brain Research, 2006, 1124, 45-54.	1.1	15
58	Cav1.4 L-Type Calcium Channels Contribute to Calpain Activation in Degenerating Photoreceptors of rd1 Mice. PLoS ONE, 2016, 11, e0156974.	1.1	15
59	Physiological assessment of high glucose neurotoxicity in mouse and rat retinal explants. Journal of Comparative Neurology, 2020, 528, 989-1002.	0.9	15
60	Investigating Ex Vivo Animal Models to Test the Performance of Intravitreal Liposomal Drug Delivery Systems. Pharmaceutics, 2021, 13, 1013.	2.0	15
61	Redefining the role of Ca2+-permeable channels in photoreceptor degeneration using diltiazem. Cell Death and Disease, 2022, 13, 47.	2.7	15
62	Retinitis Pigmentosa: overâ€expression of antiâ€ageing protein Klotho in degenerating photoreceptors. Journal of Neurochemistry, 2013, 127, 868-879.	2.1	14
63	Programmed Non-Apoptotic Cell Death in Hereditary Retinal Degeneration: Crosstalk between cGMP-Dependent Pathways and PARthanatos?. International Journal of Molecular Sciences, 2021, 22, 10567.	1.8	14
64	HDAC Inhibition Prevents Rd1 Mouse Photoreceptor Degeneration. Advances in Experimental Medicine and Biology, 2012, 723, 107-113.	0.8	14
65	RD Genes Associated with High Photoreceptor cGMP-Levels (Mini-Review). Advances in Experimental Medicine and Biology, 2019, 1185, 245-249.	0.8	14
66	Knockout of PARG110 confers resistance to cGMP-induced toxicity in mammalian photoreceptors. Cell Death and Disease, 2014, 5, e1234-e1234.	2.7	13
67	Kinase activity profiling identifies putative downstream targets of cGMP/PKG signaling in inherited retinal neurodegeneration. Cell Death Discovery, 2022, 8, 93.	2.0	12
68	A retinal model of cerebral malaria. Scientific Reports, 2019, 9, 3470.	1.6	11
69	Deletion of myosin VI causes slow retinal optic neuropathy and age-related macular degeneration (AMD)-relevant retinal phenotype. Cellular and Molecular Life Sciences, 2015, 72, 3953-3969.	2.4	10
70	Guanylyl Cyclase A/cGMP Signaling Slows Hidden, Age- and Acoustic Trauma-Induced Hearing Loss. Frontiers in Aging Neuroscience, 2020, 12, 83.	1.7	10
71	Imaging Ca²⁺ Dynamics in Cone Photoreceptor Axon Terminals of the Mouse Retina. Journal of Visualized Experiments, 2015, , e52588.	0.2	9
72	Cytotoxicity of Î²-Cyclodextrins in Retinal Explants for Intravitreal Drug Formulations. Molecules, 2021, 26, 1492.	1.7	9

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73	PKG-Dependent Cell Death in 661W Cone Photoreceptor-like Cell Cultures (Experimental Study). Advances in Experimental Medicine and Biology, 2018, 1074, 511-517.	0.8	8
74	In Vivo Assessment of Rodent Retinal Structure Using Spectral Domain Optical Coherence Tomography. Advances in Experimental Medicine and Biology, 2012, 723, 489-494.	0.8	7
75	How Long Does a Photoreceptor Cell Take to Die? Implications for the Causative Cell Death Mechanisms. Advances in Experimental Medicine and Biology, 2014, 801, 575-581.	0.8	7
76	Expression of glucose transporterâ€2 in murine retina: Evidence for glucose transport from horizontal cells to photoreceptor synapses. Journal of Neurochemistry, 2022, 160, 283-296.	2.1	7
77	Fluorescent detection of PARP activity in unfixed tissue. PLoS ONE, 2021, 16, e0245369.	1.1	6
78	Inherited Retinal Degeneration: PARP-Dependent Activation of Calpain Requires CNG Channel Activity. Biomolecules, 2022, 12, 455.	1.8	6
79	Poly (ADP-Ribose) Polymerase-1 (PARP1) Deficiency and Pharmacological Inhibition by Pirenzepine Protects From Cisplatin-Induced Ototoxicity Without Affecting Antitumor Efficacy. Frontiers in Cellular Neuroscience, 2019, 13, 406.	1.8	5
80	Cell death of spinal cord ED1+cells in a rat model of multiple sclerosis. PeerJ, 2015, 3, e1189.	0.9	4
81	RNA Biological Characteristics at the Peak of Cell Death in Different Hereditary Retinal Degeneration Mutants. Frontiers in Genetics, 2021, 12, 728791.	1.1	4
82	In vitro Model Systems for Studies Into Retinal Neuroprotection. Frontiers in Neuroscience, 0, 16, .	1.4	4
83	Technological advancements to study cellular signaling pathways in inherited retinal degenerative diseases. Current Opinion in Pharmacology, 2021, 60, 102-110.	1.7	2
84	Expression of Poly(ADP-Ribose) Glycohydrolase in Wild-Type and PARG-110 Knock-Out Retina. Advances in Experimental Medicine and Biology, 2014, 801, 463-469.	0.8	2
85	Efficient Delivery of Hydrophilic Small Molecules to Retinal Cell Lines Using Gel Core-Containing Solid Lipid Nanoparticles. Pharmaceutics, 2022, 14, 74.	2.0	2
86	CHAPTER 3. Modulation of Calcium Overload and Calpain Activity. RSC Drug Discovery Series, 2018, , 48-60.	0.2	1
87	Visualizing Cell Death in Live Retina: Using Calpain Activity Detection as a Biomarker for Retinal Degeneration. International Journal of Molecular Sciences, 2022, 23, 3892.	1.8	1
88	cGMP-Prkg1 signaling PDE5 inhibition shelter cochlear hair cells and hearing function. BMC Pharmacology & Toxicology, 2013, 14, .	1.0	0
89	CHAPTER 6. Modulation of cGMP-signalling to Prevent Retinal Degeneration. RSC Drug Discovery Series, 2018, , 88-98.	0.2	0