FranÃ§ois Paquet Durand

List of Publications by Year
in descending order

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	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.	3.9	33
2	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.	3.9	7
3	Redefining the role of Ca2+-permeable channels in photoreceptor degeneration using diltiazem. Cell Death and Disease, 2022, 13, 47.	6.3	15
4	Visualizing Cell Death in Live Retina: Using Calpain Activity Detection as a Biomarker for Retinal Degeneration. International Journal of Molecular Sciences, 2022, 23, 3892.	4.1	1
5	Inherited Retinal Degeneration: PARP-Dependent Activation of Calpain Requires CNG Channel Activity. Biomolecules, 2022, 12, 455.	4.0	6
6	Kinase activity profiling identifies putative downstream targets of cGMP/PKG signaling in inherited retinal neurodegeneration. Cell Death Discovery, 2022, 8, 93.	4.7	12
7	Efficient Delivery of Hydrophilic Small Molecules to Retinal Cell Lines Using Gel Core-Containing Solid Lipid Nanoparticles. Pharmaceutics, 2022, 14, 74.	4.5	2
8	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.	15.5	71
9	HDAC inhibition ameliorates cone survival in retinitis pigmentosa mice. Cell Death and Differentiation, 2021, 28, 1317-1332.	11.2	22
10	Cytotoxicity of Î²-Cyclodextrins in Retinal Explants for Intravitreal Drug Formulations. Molecules, 2021, 26, 1492.	3.8	9
11	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.	2.8	29
12	Investigating Ex Vivo Animal Models to Test the Performance of Intravitreal Liposomal Drug Delivery Systems. Pharmaceutics, 2021, 13, 1013.	4.5	15
13	Programmed Non-Apoptotic Cell Death in Hereditary Retinal Degeneration: Crosstalk between cGMP-Dependent Pathways and PARthanatos?. International Journal of Molecular Sciences, 2021, 22, 10567.	4.1	14
14	Technological advancements to study cellular signaling pathways in inherited retinal degenerative diseases. Current Opinion in Pharmacology, 2021, 60, 102-110.	3.5	2
15	Fluorescent detection of PARP activity in unfixed tissue. PLoS ONE, 2021, 16, e0245369.	2.5	6
16	RNA Biological Characteristics at the Peak of Cell Death in Different Hereditary Retinal Degeneration Mutants. Frontiers in Genetics, 2021, 12, 728791.	2.3	4
17	Cellular mechanisms of hereditary photoreceptor degeneration â€“ Focus on cGMP. Progress in Retinal and Eye Research, 2020, 74, 100772.	15.5	85
18	Physiological assessment of high glucose neurotoxicity in mouse and rat retinal explants. Journal of Comparative Neurology, 2020, 528, 989-1002.	1.6	15

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19	Systematic spatiotemporal mapping reveals divergent cell death pathways in three mouse models of hereditary retinal degeneration. Journal of Comparative Neurology, 2020, 528, 1113-1139.	1.6	22
20	Safety and Vision Outcomes of Subretinal Gene Therapy Targeting Cone Photoreceptors in Achromatopsia. JAMA Ophthalmology, 2020, 138, 643.	2.5	100
21	Guanylyl Cyclase A/cGMP Signaling Slows Hidden, Age- and Acoustic Trauma-Induced Hearing Loss. Frontiers in Aging Neuroscience, 2020, 12, 83.	3.4	10
22	Long-Term, Serum-Free Cultivation of Organotypic Mouse Retina Explants with Intact Retinal Pigment Epithelium. Journal of Visualized Experiments, 2020, , .	0.3	29
23	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.	3.7	5
24	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.	3.4	31
25	The cGMP Pathway and Inherited Photoreceptor Degeneration: Targets, Compounds, and Biomarkers. Genes, 2019, 10, 453.	2.4	38
26	A retinal model of cerebral malaria. Scientific Reports, 2019, 9, 3470.	3.3	11
27	Drug delivery to retinal photoreceptors. Drug Discovery Today, 2019, 24, 1637-1643.	6.4	48
28	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.	3.1	17
29	RD Genes Associated with High Photoreceptor cGMP-Levels (Mini-Review). Advances in Experimental Medicine and Biology, 2019, 1185, 245-249.	1.6	14
30	PKG-Dependent Cell Death in 661W Cone Photoreceptor-like Cell Cultures (Experimental Study). Advances in Experimental Medicine and Biology, 2018, 1074, 511-517.	1.6	8
31	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.	7.1	90
32	Primary Rod and Cone Degeneration Is Prevented by HDAC Inhibition. Advances in Experimental Medicine and Biology, 2018, 1074, 367-373.	1.6	23
33	CHAPTER 3. Modulation of Calcium Overload and Calpain Activity. RSC Drug Discovery Series, 2018, , 48-60.	0.3	1
34	CHAPTER 6. Modulation of cGMP-signalling to Prevent Retinal Degeneration. RSC Drug Discovery Series, 2018, , 88-98.	0.3	0
35	Gene Therapy Successfully Delays Degeneration in a Mouse Model ofPDE6A-Linked Retinitis Pigmentosa (RP43). Human Gene Therapy, 2017, 28, 1180-1188.	2.7	16
36	Gene Supplementation Rescues Rod Function and Preserves Photoreceptor and Retinal Morphology in Dogs, Leading the Way Toward Treating HumanPDE6A-Retinitis Pigmentosa. Human Gene Therapy, 2017, 28, 1189-1201.	2.7	27

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37	Development of a Chromatic Pupillography Protocol for the First Gene Therapy Trial in Patients With CNGA3-Linked Achromatopsia. , 2017, 58, 1274.		29
38	Temporal progression of PARP activity in the Prph2 mutant rd2 mouse: Neuroprotective effects of the PARP inhibitor PJ34. PLoS ONE, 2017, 12, e0181374.	2.5	23
39	Cav1.4 L-Type Calcium Channels Contribute to Calpain Activation in Degenerating Photoreceptors of rd1 Mice. PLoS ONE, 2016, 11, e0156974.	2.5	15
40	Calcium dynamics change in degenerating cone photoreceptors. Human Molecular Genetics, 2016, 25, 3729-3740.	2.9	28
41	Olaparib significantly delays photoreceptor loss in a model for hereditary retinal degeneration. Scientific Reports, 2016, 6, 39537.	3.3	45
42	HDAC inhibition in thecpfl1mouse protects degenerating cone photoreceptorsin vivo. Human Molecular Genetics, 2016, 25, ddw275.	2.9	39
43	Organotypic retinal explant cultures as in vitro alternative for diabetic retinopathy studies. ALTEX: Alternatives To Animal Experimentation, 2016, 33, 459-464.	1.5	29
44	Imaging Ca²⁺ Dynamics in Cone Photoreceptor Axon Terminals of the Mouse Retina. Journal of Visualized Experiments, 2015, , e52588.	0.3	9
45	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.	5.4	10
46	Retinitis pigmentosa: impact of differentPde6apoint mutations on the disease phenotype. Human Molecular Genetics, 2015, 24, 5486-5499.	2.9	41
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.	3.4	26
48	Cell death of spinal cord ED1+cells in a rat model of multiple sclerosis. PeerJ, 2015, 3, e1189.	2.0	4
49	Identification of a Common Non-Apoptotic Cell Death Mechanism in Hereditary Retinal Degeneration. PLoS ONE, 2014, 9, e112142.	2.5	191
50	DNA methylation and differential gene regulation in photoreceptor cell death. Cell Death and Disease, 2014, 5, e1558-e1558.	6.3	47
51	Knockout of PARG110 confers resistance to cGMP-induced toxicity in mammalian photoreceptors. Cell Death and Disease, 2014, 5, e1234-e1234.	6.3	13
52	Characterization of a Mouse Model With Complete RPE Loss and Its Use for RPE Cell Transplantation. , 2014, 55, 5431.		54
53	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.	1.6	2
54	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.	1.6	7

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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.	2.4	17
56	Retinitis Pigmentosa: overâ€expression of antiâ€ageing protein Klotho in degenerating photoreceptors. Journal of Neurochemistry, 2013, 127, 868-879.	3.9	14
57	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.	3.4	72
58	cGMP-Prkg1 signaling PDE5 inhibition shelter cochlear hair cells and hearing function. BMC Pharmacology & Toxicology, 2013, 14, .	2.4	0
59	Calpain-mediated ataxin-3 cleavage in the molecular pathogenesis of spinocerebellar ataxia type 3 (SCA3). Human Molecular Genetics, 2013, 22, 508-518.	2.9	70
60	Retinitis pigmentosa: rapid neurodegeneration is governed by slow cell death mechanisms. Cell Death and Disease, 2013, 4, e488-e488.	6.3	67
61	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.	2.5	21
62	Light-Driven Calcium Signals in Mouse Cone Photoreceptors. Journal of Neuroscience, 2012, 32, 6981-6994.	3.6	35
63	cGMP-Prkg1 signaling and Pde5 inhibition shelter cochlear hair cells and hearing function. Nature Medicine, 2012, 18, 252-259.	30.7	82
64	HDAC Inhibition Prevents Rd1 Mouse Photoreceptor Degeneration. Advances in Experimental Medicine and Biology, 2012, 723, 107-113.	1.6	14
65	In Vivo Assessment of Rodent Retinal Structure Using Spectral Domain Optical Coherence Tomography. Advances in Experimental Medicine and Biology, 2012, 723, 489-494.	1.6	7
66	Neuroprotective Strategies for the Treatment of Inherited Photoreceptor Degeneration. Current Molecular Medicine, 2012, 12, 598-612.	1.3	68
67	Calpain and PARP Activation during Photoreceptor Cell Death in P23H and S334ter Rhodopsin Mutant Rats. PLoS ONE, 2011, 6, e22181.	2.5	94
68	A key role for cyclic nucleotide gated (CNG) channels in cGMP-related retinitis pigmentosa. Human Molecular Genetics, 2011, 20, 941-947.	2.9	103
69	cGMPâ€dependent cone photoreceptor degeneration in the cpfl1 mouse retina. Journal of Comparative Neurology, 2010, 518, 3604-3617.	1.6	50
70	Photoreceptor rescue and toxicity induced by different calpain inhibitors. Journal of Neurochemistry, 2010, 115, 930-940.	3.9	71
71	Restoration of Cone Vision in the CNGA3â^'/â^' Mouse Model of Congenital Complete Lack of Cone Photoreceptor Function. Molecular Therapy, 2010, 18, 2057-2063.	8.2	175
72	Excessive HDAC activation is critical for neurodegeneration in the rd1 mouse. Cell Death and Disease, 2010, 1, e24-e24.	6.3	100

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73	PARP1 Gene Knock-Out Increases Resistance to Retinal Degeneration without Affecting Retinal Function. PLoS ONE, 2010, 5, e15495.	2.5	71
74	Spectral Domain Optical Coherence Tomography in Mouse Models of Retinal Degeneration. , 2009, 50, 5888.		193
75	Study of Gene-Targeted Mouse Models of Splicing Factor GenePrpf31Implicated in Human Autosomal Dominant Retinitis Pigmentosa (RP). , 2009, 50, 5927.		52
76	Cellular phenotypes of human model neurons (NT2) after differentiation in aggregate culture. Cell and Tissue Research, 2009, 336, 439-452.	2.9	55
77	PKG activity causes photoreceptor cell death in two retinitis pigmentosa models. Journal of Neurochemistry, 2009, 108, 796-810.	3.9	113
78	Photoreceptor Cell Death Mechanisms in Inherited Retinal Degeneration. Molecular Neurobiology, 2008, 38, 253-269.	4.0	259
79	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.	3.6	124
80	Human Model Neurons in Studies of Brain Cell Damage and Neural Repair. Current Molecular Medicine, 2007, 7, 541-554.	1.3	27
81	Calpain activity in retinal degeneration. Journal of Neuroscience Research, 2007, 85, 693-702.	2.9	69
82	CNTF+BDNF treatment and neuroprotective pathways in the rd1 mouse retina. Brain Research, 2007, 1129, 116-129.	2.2	87
83	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.	2.2	30
84	Calpain is activated in degenerating photoreceptors in the rd1 mouse. Journal of Neurochemistry, 2006, 96, 802-814.	3.9	129
85	Diltiazem protects human NT-2 neurons against excitotoxic damage in a model of simulated ischemia. Brain Research, 2006, 1124, 45-54.	2.2	15
86	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.	3.8	51
87	Hypoxic/ischaemic cell damage in cultured human NT-2 neurons. Brain Research, 2004, 1011, 33-47.	2.2	21
88	Turning teratocarcinoma cells into neurons: rapid differentiation of NT-2 cells in floating spheres. Developmental Brain Research, 2003, 142, 161-167.	1.7	58
89	In vitro Model Systems for Studies Into Retinal Neuroprotection. Frontiers in Neuroscience, 0, 16, .	2.8	4