William A Beltran

List of Publications by Year
in descending order

40 papers	1,517 citations	430874 18 h-index	361022 35 g-index
42 all docs	42 docs citations	42 times ranked	1599 citing authors

#	Article	IF	Citations
1	Gene therapy rescues photoreceptor blindness in dogs and paves the way for treating human X-linked retinitis pigmentosa. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2132-2137.	7.1	237
2	A Frameshift Mutation inRPGRExon ORF15 Causes Photoreceptor Degeneration and Inner Retina Remodeling in a Model of X-Linked Retinitis Pigmentosa. , 2006, 47, 1669.		115
3	Mutation-independent rhodopsin gene therapy by knockdown and replacement with a single AAV vector. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8547-E8556.	7.1	114
4	Restoration of visual function by expression of a light-gated mammalian ion channel in retinal ganglion cells or ON-bipolar cells. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E5574-83.	7.1	104
5	Canine Retina Has a Primate Fovea-Like Bouquet of Cone Photoreceptors Which Is Affected by Inherited Macular Degenerations. PLoS ONE, 2014, 9, e90390.	2.5	100
6	Successful arrest of photoreceptor and vision loss expands the therapeutic window of retinal gene therapy to later stages of disease. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E5844-53.	7.1	75
7	<i>BEST1</i> gene therapy corrects a diffuse retina-wide microdetachment modulated by light exposure. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E2839-E2848.	7.1	62
8	Optimization of Retinal Gene Therapy for X-Linked Retinitis Pigmentosa Due to RPGR Mutations. Molecular Therapy, 2017, 25, 1866-1880.	8.2	60
9	Long-Term Structural Outcomes of Late-Stage RPE65 Gene Therapy. Molecular Therapy, 2020, 28, 266-278.	8.2	56
10	Cloning, Mapping, and Retinal Expression of the Canine Ciliary Neurotrophic Factor Receptor Î± (CNTFRÎ±). , 2003, 44, 3642.		52
11	The use of canine models of inherited retinal degeneration to test novel therapeutic approaches. Veterinary Ophthalmology, 2009, 12, 192-204.	1.0	41
12	Immunolocalization of ciliary neurotrophic factor receptor alpha (CNTFRalpha) in mammalian photoreceptor cells. Molecular Vision, 2005, 11, 232-44.	1.1	41
13	Ocular findings in two colonies of gray mouse lemurs (Microcebus murinus). Veterinary Ophthalmology, 2007, 10, 43-49.	1.0	35
14	Overlap of abnormal photoreceptor development and progressive degeneration in Leber congenital amaurosis caused by<i>NPHP5</i>mutation. Human Molecular Genetics, 2016, 25, 4211-4226.	2.9	35
15	Intravitreal injection of ciliary neurotrophic factor (CNTF) causes peripheral remodeling and does not prevent photoreceptor loss in canine RPGR mutant retina. Experimental Eye Research, 2007, 84, 753-771.	2.6	33
16	scAAVengr, a transcriptome-based pipeline for quantitative ranking of engineered AAVs with single-cell resolution. ELife, 2021, 10, .	6.0	33
17	Age-Dependent Disease Expression Determines Remodeling of the Retinal Mosaic in Carriers ofRPGRExon ORF15 Mutations. , 2009, 50, 3985.		31
18	Involvement of Innate Immune System in Late Stages of Inherited Photoreceptor Degeneration. Scientific Reports, 2017, 7, 17897.	3.3	30

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19	Up-Regulation of Tumor Necrosis Factor Superfamily Genes in Early Phases of Photoreceptor Degeneration. PLoS ONE, 2013, 8, e85408.	2.5	29
20	Assessment of visual function and retinal structure following acute light exposure in the light sensitive T4R rhodopsin mutant dog. Experimental Eye Research, 2016, 146, 341-353.	2.6	25
21	Toxicity and Efficacy Evaluation of an Adeno-Associated Virus Vector Expressing Codon-Optimized <i>RPGR</i> Delivered by Subretinal Injection in a Canine Model of X-linked Retinitis Pigmentosa. Human Gene Therapy, 2020, 31, 253-267.	2.7	22
22	Gene Augmentation for X-Linked Retinitis Pigmentosa Caused by Mutations in RPGR. Cold Spring Harbor Perspectives in Medicine, 2015, 5, a017392-a017392.	6.2	19
23	Gene therapy reforms photoreceptor structure and restores vision in NPHP5-associated Leber congenital amaurosis. Molecular Therapy, 2021, 29, 2456-2468.	8.2	18
24	Dose Range Finding Studies with Two RPGR Transgenes in a Canine Model of X-Linked Retinitis Pigmentosa Treated with Subretinal Gene Therapy. Human Gene Therapy, 2020, 31, 743-755.	2.7	15
25	Progress in Gene Therapy for Rhodopsin Autosomal Dominant Retinitis Pigmentosa. Advances in Experimental Medicine and Biology, 2019, 1185, 113-118.	1.6	15
26	CREB1/ATF1 Activation in Photoreceptor Degeneration and Protection. , 2009, 50, 5355.		14
27	Exclusion of the Unfolded Protein Response in Light-Induced Retinal Degeneration in the Canine T4R RHO Model of Autosomal Dominant Retinitis Pigmentosa. PLoS ONE, 2015, 10, e0115723.	2.5	14
28	Targeting ON-bipolar cells by AAV gene therapy stably reverses <i>LRIT3</i> -congenital stationary night blindness. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2117038119.	7.1	14
29	Acute and Protracted Cell Death in Light-Induced Retinal Degeneration in the Canine Model of Rhodopsin Autosomal Dominant Retinitis Pigmentosa. , 2017, 58, 270.		12
30	Translational Retinal Research and Therapies. Translational Vision Science and Technology, 2018, 7, 8.	2.2	11
31	Rod function deficit in retained photoreceptors of patients with class B Rhodopsin mutations. Scientific Reports, 2020, 10, 12552.	3.3	10
32	On the Role of CNTF as a Pontential Therapy for Retinal Degeneration: Dr. Jekyll or Mr. Hyde?. Advances in Experimental Medicine and Biology, 2008, 613, 45-51.	1.6	10
33	Focal/multifocal and geographic retinal dysplasia in the dogâ€"In vivo retinal microanatomy analyses. Veterinary Ophthalmology, 2020, 23, 292-304.	1.0	9
34	In-vivo longitudinal changes in thickness of the postnatal canine retina. Experimental Eye Research, 2020, 192, 107926.	2.6	5
35	Enhancer of Zeste Homolog 2 (EZH2) Contributes to Rod Photoreceptor Death Process in Several Forms of Retinal Degeneration and Its Activity Can Serve as a Biomarker for Therapy Efficacy. International Journal of Molecular Sciences, 2021, 22, 9331.	4.1	5
36	Altered transsulfuration pathway enzymes and redox homeostasis in inherited retinal degenerative diseases. Experimental Eye Research, 2022, 215, 108902.	2.6	5

#	Article	IF	Citations
37	Characterization of the Canine Retinal Vasculature With Optical Coherence Tomography Angiography: Comparisons With Histology and Fluorescein Angiography. Frontiers in Neuroanatomy, 2021, 15, 785249.	1.7	4
38	Short prolactin isoforms are expressed in photoreceptors of canine retinas undergoing retinal degeneration. Scientific Reports, 2021, 11, 460.	3.3	3
39	Photoreceptor Outer Segment Isolation from a Single Canine Retina for RPE Phagocytosis Assay. Advances in Experimental Medicine and Biology, 2018, 1074, 593-601.	1.6	2
40	Retinal structural and microvascular abnormalities in retinal dysplasia imaged by OCT and OCT angiography. Veterinary Ophthalmology, 2021, , .	1.0	0