

Gustavo D Aguirre

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4898646/gustavo-d-aguirre-publications-by-citations.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

97
papers

4,001
citations

29
h-index

62
g-index

102
ext. papers

4,476
ext. citations

5.4
avg, IF

4.83
L-index

#	Paper	IF	Citations
97	Gene therapy restores vision in a canine model of childhood blindness. <i>Nature Genetics</i> , 2001 , 28, 92-5	36.3	989
96	Gene therapy rescues cone function in congenital achromatopsia. <i>Human Molecular Genetics</i> , 2010 , 19, 2581-93	5.6	203
95	Gene therapy rescues photoreceptor blindness in dogs and paves the way for treating human X-linked retinitis pigmentosa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 2132-7	11.5	203
94	A linkage map of the canine genome. <i>Genomics</i> , 1997 , 46, 326-36	4.3	188
93	Different RPGR exon ORF15 mutations in Canids provide insights into photoreceptor cell degeneration. <i>Human Molecular Genetics</i> , 2002 , 11, 993-1003	5.6	159
92	In vivo dynamics of retinal injury and repair in the rhodopsin mutant dog model of human retinitis pigmentosa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 5233-8	11.5	153
91	Naturally occurring rhodopsin mutation in the dog causes retinal dysfunction and degeneration mimicking human dominant retinitis pigmentosa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 6328-33	11.5	138
90	Canine CNGB3 mutations establish cone degeneration as orthologous to the human achromatopsia locus ACHM3. <i>Human Molecular Genetics</i> , 2002 , 11, 1823-33	5.6	128
89	Breed relationships facilitate fine-mapping studies: a 7.8-kb deletion cosegregates with Collie eye anomaly across multiple dog breeds. <i>Genome Research</i> , 2007 , 17, 1562-71	9.7	117
88	A frameshift mutation in RPGR exon ORF15 causes photoreceptor degeneration and inner retina remodeling in a model of X-linked retinitis pigmentosa. <i>Investigative Ophthalmology and Visual Science</i> , 2006 , 47, 1669-81		99
87	Bestrophin gene mutations cause canine multifocal retinopathy: a novel animal model for best disease. <i>Investigative Ophthalmology and Visual Science</i> , 2007 , 48, 1959-67		94
86	Mutation-independent rhodopsin gene therapy by knockdown and replacement with a single AAV vector. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E8547-E8556	11.5	80
85	Restoration of visual function by expression of a light-gated mammalian ion channel in retinal ganglion cells or ON-bipolar cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E5574-83	11.5	77
84	Canine retina has a primate fovea-like bouquet of cone photoreceptors which is affected by inherited macular degenerations. <i>PLoS ONE</i> , 2014 , 9, e90390	3.7	76
83	Progress in treating inherited retinal diseases: Early subretinal gene therapy clinical trials and candidates for future initiatives. <i>Progress in Retinal and Eye Research</i> , 2020 , 77, 100827	20.5	76
82	Genetic and phenotypic variations of inherited retinal diseases in dogs: the power of within- and across-breed studies. <i>Mammalian Genome</i> , 2012 , 23, 40-61	3.2	66
81	Transient photoreceptor deconstruction by CNTF enhances rAAV-mediated cone functional rescue in late stage CNGB3-achromatopsia. <i>Molecular Therapy</i> , 2013 , 21, 1131-41	11.7	60

80	Successful arrest of photoreceptor and vision loss expands the therapeutic window of retinal gene therapy to later stages of disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E5844-53	11.5	58
79	XLPR: a canine retinal degeneration inherited as an X-linked trait. <i>American Journal of Medical Genetics Part A</i> , 1994 , 52, 27-33		58
78	Bestrophinopathy: An RPE-photoreceptor interface disease. <i>Progress in Retinal and Eye Research</i> , 2017 , 58, 70-88	20.5	57
77	Pharmacological Modulation of Photoreceptor Outer Segment Degradation in a Human iPS Cell Model of Inherited Macular Degeneration. <i>Molecular Therapy</i> , 2015 , 23, 1700-1711	11.7	50
76	A naturally occurring mutation of the opsin gene (T4R) in dogs affects glycosylation and stability of the G protein-coupled receptor. <i>Journal of Biological Chemistry</i> , 2004 , 279, 53828-39	5.4	48
75	COL9A2 and COL9A3 mutations in canine autosomal recessive ocular skeletal dysplasia. <i>Mammalian Genome</i> , 2010 , 21, 398-408	3.2	44
74	gene therapy corrects a diffuse retina-wide microdetachment modulated by light exposure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E2839-E2848	11.5	42
73	Optimization of Retinal Gene Therapy for X-Linked Retinitis Pigmentosa Due to RPGR Mutations. <i>Molecular Therapy</i> , 2017 , 25, 1866-1880	11.7	41
72	Long-Term Structural Outcomes of Late-Stage RPE65 Gene Therapy. <i>Molecular Therapy</i> , 2020 , 28, 266-278	11.7	33
71	IQCB1 and PDE6B mutations cause similar early onset retinal degenerations in two closely related terrier dog breeds 2013 , 54, 7005-19		30
70	Strong upregulation of inflammatory genes accompanies photoreceptor demise in canine models of retinal degeneration. <i>PLoS ONE</i> , 2017 , 12, e0177224	3.7	30
69	Application of a new subretinal injection device in the dog. <i>Cell Transplantation</i> , 2006 , 15, 511-9	4	29
68	Rod and cone specific domains in the interphotoreceptor matrix. <i>Journal of Comparative Neurology</i> , 1991 , 308, 371-80	3.4	27
67	Overlap of abnormal photoreceptor development and progressive degeneration in Leber congenital amaurosis caused by NPHP5 mutation. <i>Human Molecular Genetics</i> , 2016 , 25, 4211-4226	5.6	26
66	Up-regulation of tumor necrosis factor superfamily genes in early phases of photoreceptor degeneration. <i>PLoS ONE</i> , 2013 , 8, e85408	3.7	26
65	Genetic expression of cyclic GMP phosphodiesterase activity defines abnormal photoreceptor differentiation in neurological mutants of inherited retinal degeneration. <i>Journal of Neurochemistry</i> , 1986 , 46, 1240-5	6	23
64	Clinical light exposure, photoreceptor degeneration, and AP-1 activation: a cell death or cell survival signal in the rhodopsin mutant retina?. <i>Investigative Ophthalmology and Visual Science</i> , 2007 , 48, 4907-18		22
63	Involvement of Innate Immune System in Late Stages of Inherited Photoreceptor Degeneration. <i>Scientific Reports</i> , 2017 , 7, 17897	4.9	21

62	A hypothesis to explain the reduced blood levels of docosahexaenoic acid in inherited retinal degenerations caused by mutations in genes encoding retina-specific proteins. <i>Lipids</i> , 1999 , 34 Suppl, S235-7	1.6	20
61	Improvement in vision: a new goal for treatment of hereditary retinal degenerations. <i>Expert Opinion on Orphan Drugs</i> , 2015 , 3, 563-575	1.1	19
60	Assessment of visual function and retinal structure following acute light exposure in the light sensitive T4R rhodopsin mutant dog. <i>Experimental Eye Research</i> , 2016 , 146, 341-353	3.7	19
59	Retinal histopathology of an XLRP carrier with a mutation in the RPGR exon ORF15. <i>Experimental Eye Research</i> , 2002 , 75, 431-43	3.7	18
58	Gene augmentation for X-linked retinitis pigmentosa caused by mutations in RPGR. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2014 , 5, a017392	5.4	17
57	Molecular diagnostic tests for ascertainment of genotype at the rod cone dysplasia 1 (rcd1) locus in Irish setters. <i>Current Eye Research</i> , 1995 , 14, 243-7	2.9	17
56	Concepts and Strategies in Retinal Gene Therapy 2017 , 58, 5399-5411		16
55	Exclusion of RPGRIP1 ins44 from primary causal association with early-onset cone-rod dystrophy in dogs 2012 , 53, 5486-501		16
54	A Naturally Occurring Canine Model of Autosomal Recessive Congenital Stationary Night Blindness. <i>PLoS ONE</i> , 2015 , 10, e0137072	3.7	15
53	Canine CNGA3 Gene Mutations Provide Novel Insights into Human Achromatopsia-Associated Channelopathies and Treatment. <i>PLoS ONE</i> , 2015 , 10, e0138943	3.7	15
52	Effect of diet on the fatty acid and molecular species composition of dog retina phospholipids. <i>Lipids</i> , 1998 , 33, 1187-93	1.6	14
51	Redistribution of insoluble interphotoreceptor matrix components during photoreceptor differentiation in the mouse retina. <i>Journal of Comparative Neurology</i> , 1994 , 345, 115-24	3.4	14
50	Development of hereditary tapetal degeneration in the beagle dog. <i>Current Eye Research</i> , 1988 , 7, 103-114	1.9	14
49	Safety and Efficacy of AAV5 Vectors Expressing Human or Canine CNGB3 in CNGB3-Mutant Dogs. <i>Human Gene Therapy Clinical Development</i> , 2017 , 28, 197-207	3.2	13
48	Exclusion of the unfolded protein response in light-induced retinal degeneration in the canine T4R RHO model of autosomal dominant retinitis pigmentosa. <i>PLoS ONE</i> , 2015 , 10, e0115723	3.7	13
47	Operating in the dark: a night-vision system for surgery in retinas susceptible to light damage. <i>JAMA Ophthalmology</i> , 2008 , 126, 714-7		12
46	An improved diagnostic test for rod cone dysplasia 1 (rcd1) using allele-specific polymerase chain reaction. <i>Current Eye Research</i> , 1996 , 15, 583-7	2.9	12
45	Photoreceptor proliferation and dysregulation of cell cycle genes in early onset inherited retinal degenerations. <i>BMC Genomics</i> , 2016 , 17, 221	4.5	10

44	Structural organization and expression pattern of the canine RPGRIP1 isoforms in retinal tissue 2011 , 52, 2989-98		10
43	Toxicity and Efficacy Evaluation of an Adeno-Associated Virus Vector Expressing Codon-Optimized Delivered by Subretinal Injection in a Canine Model of X-linked Retinitis Pigmentosa. <i>Human Gene Therapy</i> , 2020 , 31, 253-267	4.8	10
42	Complex Structural Variant Associated with Non-syndromic Canine Retinal Degeneration. <i>G3: Genes, Genomes, Genetics</i> , 2019 , 9, 425-437	3.2	10
41	Translational Retinal Research and Therapies. <i>Translational Vision Science and Technology</i> , 2018 , 7, 8	3.3	10
40	Genome-wide association study and whole-genome sequencing identify a deletion in LRIT3 associated with canine congenital stationary night blindness. <i>Scientific Reports</i> , 2019 , 9, 14166	4.9	9
39	Characterization of beta-glucuronidase in the retinal pigment epithelium. <i>Current Eye Research</i> , 1997 , 16, 131-43	2.9	8
38	Acute and Protracted Cell Death in Light-Induced Retinal Degeneration in the Canine Model of Rhodopsin Autosomal Dominant Retinitis Pigmentosa 2017 , 58, 270-281		7
37	Molecular studies of phenotype variation in canine RPGR-XLPRA1. <i>Molecular Vision</i> , 2016 , 22, 319-31	2.3	7
36	Comparative localization of cystathionine beta synthases and cystathionine gamma lyase in canine, non-human primate and human retina. <i>Experimental Eye Research</i> , 2019 , 181, 72-84	3.7	7
35	Variabilities in retinal function and structure in a canine model of cone-rod dystrophy associated with RPGRIP1 support multigenic etiology. <i>Scientific Reports</i> , 2017 , 7, 12823	4.9	6
34	Canine rod transducin alpha-1: cloning of the cDNA and evaluation of the gene as a candidate for progressive retinal atrophy. <i>Current Eye Research</i> , 1997 , 16, 71-7	2.9	6
33	Posterior Segment Approach for Subretinal Transplantation or Injection in the Canine Model. <i>Cell Transplantation</i> , 2001 , 10, 317-327	4	6
32	Dose Range Finding Studies with Two Transgenes in a Canine Model of X-Linked Retinitis Pigmentosa Treated with Subretinal Gene Therapy. <i>Human Gene Therapy</i> , 2020 , 31, 743-755	4.8	5
31	Adenoviral vector-mediated beta-glucuronidase cDNA transfer to treat MPS VII RPE in vitro. <i>Current Eye Research</i> , 2001 , 23, 357-67	2.9	5
30	Rod function deficit in retained photoreceptors of patients with class B Rhodopsin mutations. <i>Scientific Reports</i> , 2020 , 10, 12552	4.9	5
29	Pharmacodynamics, pharmacokinetics and biodistribution of recombinant human N-acetylgalactosamine 4-sulfatase after 6months of therapy in cats using different IV infusion durations. <i>Molecular Genetics and Metabolism</i> , 2016 , 117, 157-63	3.7	4
28	Ndr kinases regulate retinal interneuron proliferation and homeostasis. <i>Scientific Reports</i> , 2018 , 8, 12544	4.9	4
27	Identification of a RAPD marker linked to progressive rod-cone degeneration in dogs. <i>Mammalian Genome</i> , 1998 , 9, 740-4	3.2	4

26	Segregation distortion in inheritance of progressive rod cone degeneration (prcd) in miniature poodle dogs. <i>American Journal of Medical Genetics Part A</i> , 1990 , 35, 354-9		4
25	Underdeveloped RPE Apical Domain Underlies Lesion Formation in Canine Bestrophinopathies. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1074, 309-315	3.6	4
24	scAAVengr, a transcriptome-based pipeline for quantitative ranking of engineered AAVs with single-cell resolution. <i>ELife</i> , 2021 , 10,	8.9	3
23	Focal/multifocal and geographic retinal dysplasia in the dog-In vivo retinal microanatomy analyses. <i>Veterinary Ophthalmology</i> , 2020 , 23, 292-304	1.4	3
22	Gene therapy reforms photoreceptor structure and restores vision in NPHP5-associated Leber congenital amaurosis. <i>Molecular Therapy</i> , 2021 , 29, 2456-2468	11.7	3
21	In-vivo longitudinal changes in thickness of the postnatal canine retina. <i>Experimental Eye Research</i> , 2020 , 192, 107926	3.7	2
20	Tolerability of Topical Tocilizumab Eyedrops in Dogs: A Pilot Study. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2017 , 33, 519-524	2.6	2
19	Formal commentary. <i>PLoS Genetics</i> , 2020 , 16, e1009059	6	2
18	Candidate Genetic Modifiers for RPGR Retinal Degeneration 2020 , 61, 20		2
17	Conjunctival staining with lissamine green as a predictor of tear film deficiency in dogs. <i>Veterinary Ophthalmology</i> , 2020 , 23, 624-631	1.4	1
16	Photoreceptor Outer Segment Isolation from a Single Canine Retina for RPE Phagocytosis Assay. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1074, 593-601	3.6	1
15	Lack of consensus on consensual response. <i>Veterinary Ophthalmology</i> , 2018 , 21, 104-107	1.4	1
14	Animal models as tools for screening candidate drugs. <i>Retina</i> , 2005 , 25, S36-S37	3.6	1
13	Altered transsulfuration pathway enzymes and redox homeostasis in inherited retinal degenerative diseases.. <i>Experimental Eye Research</i> , 2021 , 215, 108902	3.7	1
12	FAM161A and TTC8 are Differentially Expressed in Non-Allelic Early Onset Retinal Degeneration. <i>Advances in Experimental Medicine and Biology</i> , 2016 , 854, 201-7	3.6	1
11	Vitreous degeneration and associated ocular abnormalities in the dog. <i>Veterinary Ophthalmology</i> , 2020 , 23, 219-224	1.4	1
10	Characterization of the Canine Retinal Vasculature With Optical Coherence Tomography Angiography: Comparisons With Histology and Fluorescein Angiography.. <i>Frontiers in Neuroanatomy</i> , 2021 , 15, 785249	3.6	1
9	CCDC66 frameshift variant associated with a new form of early-onset progressive retinal atrophy in Portuguese Water Dogs. <i>Scientific Reports</i> , 2020 , 10, 21162	4.9	0

8	Optic nerve hypoplasia in miniature poodle dogs: A preliminary genetic and candidate gene association study. <i>Veterinary Ophthalmology</i> , 2020 , 23, 67-76	1.4	○
7	Short prolactin isoforms are expressed in photoreceptors of canine retinas undergoing retinal degeneration. <i>Scientific Reports</i> , 2021 , 11, 460	4.9	○
6	Targeting ON-bipolar cells by AAV gene therapy stably reverses -congenital stationary night blindness.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2117038119	11.5	○
5	Introducing Artur V. Cideciyan and Samuel G. Jacobson, the 2018 Recipients of the Proctor Medal 2019 , 60, 1677-1679		
4	Retinal structural and microvascular abnormalities in retinal dysplasia imaged by OCT and OCT angiography. <i>Veterinary Ophthalmology</i> , 2021 ,	1.4	
3	Monocular retinopathy of prematurity-like retinal vasculopathy in a dog. <i>Veterinary Ophthalmology</i> , 2021 ,	1.4	
2	Optic nerve colobomas associated with unilateral focal serous retinal detachment in a dog - In-vivo imaging and outcome following laser retinopexy. <i>Veterinary Ophthalmology</i> , 2021 , 24, 645-652	1.4	
1	Remembering Alan M. Laties, MD, 1931-2021. 2022 , 63, 19		