

Deniz Dalkara

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

6,005
citations

66234

42
h-index

82410

72
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97
all docs

97
docs citations

97
times ranked

5333
citing authors

#	ARTICLE	IF	CITATIONS
1	Early and late stage gene therapy interventions for inherited retinal degenerations. <i>Progress in Retinal and Eye Research</i> , 2022, 86, 100975.	7.3	85
2	Systemic and local immune responses to intraocular AAV vector administration in non-human primates. <i>Molecular Therapy - Methods and Clinical Development</i> , 2022, 24, 306-316.	1.8	25
3	New Editing Tools for Gene Therapy in Inherited Retinal Dystrophies. <i>CRISPR Journal</i> , 2022, 5, 377-388.	1.4	9
4	Control of Microbial Opsin Expression in Stem Cell Derived Cones for Improved Outcomes in Cell Therapy. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 648210.	1.8	10
5	Restoration of mGluR6 Localization Following AAV-Mediated Delivery in a Mouse Model of Congenital Stationary Night Blindness. , 2021, 62, 24.		10
6	Partial recovery of visual function in a blind patient after optogenetic therapy. <i>Nature Medicine</i> , 2021, 27, 1223-1229.	15.2	335
7	Nicotine inhibits the VTA-to-amygdala dopamine pathway to promote anxiety. <i>Neuron</i> , 2021, 109, 2604-2615.e9.	3.8	53
8	Substantial restoration of night vision in adult mice with congenital stationary night blindness. <i>Molecular Therapy - Methods and Clinical Development</i> , 2021, 22, 15-25.	1.8	10
9	Assessing Photoreceptor Status in Retinal Dystrophies: From High-Resolution Imaging to Functional Vision. <i>American Journal of Ophthalmology</i> , 2021, 230, 12-47.	1.7	19
10	Optogenetic therapy: high spatiotemporal resolution and pattern discrimination compatible with vision restoration in non-human primates. <i>Communications Biology</i> , 2021, 4, 125.	2.0	65
11	Progress in Gene Editing Tools and Their Potential for Correcting Mutations Underlying Hearing and Vision Loss. <i>Frontiers in Genome Editing</i> , 2021, 3, 737632.	2.7	13
12	Chronic nicotine increases midbrain dopamine neuron activity and biases individual strategies towards reduced exploration in mice. <i>Nature Communications</i> , 2021, 12, 6945.	5.8	17
13	The metabolic signaling of the nucleoredoxin-like 2 gene supports brain function. <i>Redox Biology</i> , 2021, 48, 102198.	3.9	7
14	Outer retinal transduction by AAV2-7m8 following intravitreal injection in a sheep model of CNGA3 achromatopsia. <i>Gene Therapy</i> , 2021, , .	2.3	2
15	Neural circuits in the mouse retina support color vision in the upper visual field. <i>Nature Communications</i> , 2020, 11, 3481.	5.8	70
16	Towards optogenetic vision restoration with high resolution. <i>PLoS Computational Biology</i> , 2020, 16, e1007857.	1.5	20
17	Advancing Clinical Trials for Inherited Retinal Diseases: Recommendations from the Second Monaciano Symposium. <i>Translational Vision Science and Technology</i> , 2020, 9, 2.	1.1	56
18	The temporal structure of the inner retina at a single glance. <i>Scientific Reports</i> , 2020, 10, 4399.	1.6	14

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19	AAV-Mediated Gene Delivery to 3D Retinal Organoids Derived from Human Induced Pluripotent Stem Cells. <i>International Journal of Molecular Sciences</i> , 2020, 21, 994.	1.8	51
20	Rescue of Defective Electroretinographic Responses in Dp71-Null Mice With AAV-Mediated Reexpression of Dp71. , 2020, 61, 11.		9
21	Opsins for vision restoration. <i>Biochemical and Biophysical Research Communications</i> , 2020, 527, 325-330.	1.0	22
22	In vivo“directed evolution of adeno-associated virus in the primate retina. <i>JCI Insight</i> , 2020, 5, .	2.3	71
23	AAV-Mediated Gene to Foveal Cones. <i>Methods in Molecular Biology</i> , 2020, 2173, 101-112.	0.4	5
24	Non-viral delivery of chemically modified mRNA to the retina: Subretinal versus intravitreal administration. <i>Journal of Controlled Release</i> , 2019, 307, 315-330.	4.8	32
25	Restoration of visual function by transplantation of optogenetically engineered photoreceptors. <i>Nature Communications</i> , 2019, 10, 4524.	5.8	92
26	Gene therapy for retinal dystrophy. <i>Nature Medicine</i> , 2019, 25, 198-199.	15.2	13
27	Linking YAP to Müller Glia Quiescence Exit in the Degenerative Retina. <i>Cell Reports</i> , 2019, 27, 1712-1725.e6.	2.9	75
28	<i>In vivo</i> sub-millisecond two-photon optogenetics with temporally focused patterned light. <i>Journal of Neuroscience</i> , 2019, 39, 1785-18.	1.7	53
29	The primate model for understanding and restoring vision. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 26280-26287.	3.3	73
30	Loss of CRB2 in Müller glial cells modifies a CRB1-associated retinitis pigmentosa phenotype into a Leber congenital amaurosis phenotype. <i>Human Molecular Genetics</i> , 2019, 28, 105-123.	1.4	29
31	Neutralizing Antibodies Against Adeno-Associated Virus (AAV): Measurement and Influence on Retinal Gene Delivery. <i>Methods in Molecular Biology</i> , 2018, 1715, 225-238.	0.4	11
32	Noninvasive gene delivery to foveal cones for vision restoration. <i>JCI Insight</i> , 2018, 3, .	2.3	102
33	Optogenetic Light Sensors in Human Retinal Organoids. <i>Frontiers in Neuroscience</i> , 2018, 12, 789.	1.4	48
34	Dosage Thresholds and Influence of Transgene Cassette in Adeno-Associated Virus“Related Toxicity. <i>Human Gene Therapy</i> , 2018, 29, 1235-1241.	1.4	56
35	Vectors and Gene Delivery to the Retina. <i>Annual Review of Vision Science</i> , 2017, 3, 121-140.	2.3	45
36	A New Promoter Allows Optogenetic Vision Restoration with Enhanced Sensitivity in Macaque Retina. <i>Molecular Therapy</i> , 2017, 25, 2546-2560.	3.7	131

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37	Spingosine 1-Phosphate Receptor 1 Modulates CNTF-Induced Axonal Growth and Neuroprotection in the Mouse Visual System. <i>Neural Plasticity</i> , 2017, 2017, 1-11.	1.0	11
38	Insight into the mechanisms of enhanced retinal transduction by the engineered AAV2 capsid variant $\Delta\epsilon\gamma\delta$. <i>Biotechnology and Bioengineering</i> , 2016, 113, 2712-2724.	1.7	57
39	Red-shifted channelrhodopsin stimulation restores light responses in blind mice, macaque retina, and human retina. <i>EMBO Molecular Medicine</i> , 2016, 8, 1248-1264.	3.3	139
40	Emerging therapies for inherited retinal degeneration. <i>Science Translational Medicine</i> , 2016, 8, 368rv6.	5.8	179
41	268. Optogenetic Engineering of Retinal Ganglion Cells with AAV2.7m8-ChrimsonR-tdTomato (GS030-DP) Is Well Tolerated and Induces Functional Responses to Light in Non-Human Primates. <i>Molecular Therapy</i> , 2016, 24, S106-S107.	3.7	9
42	Melanopsin Variants as Intrinsic Optogenetic On and Off Switches for Transient versus Sustained Activation of G Protein Pathways. <i>Current Biology</i> , 2016, 26, 1206-1212.	1.8	60
43	The Thioredoxin Encoded by the Rod-Derived Cone Viability Factor Gene Protects Cone Photoreceptors Against Oxidative Stress. <i>Antioxidants and Redox Signaling</i> , 2016, 24, 909-923.	2.5	38
44	AAV-mediated gene therapy in Dystrophin-Dp71 deficient mouse leads to blood-retinal barrier restoration and oedema reabsorption. <i>Human Molecular Genetics</i> , 2016, 25, ddu159.	1.4	20
45	Let There Be Light: Gene and Cell Therapy for Blindness. <i>Human Gene Therapy</i> , 2016, 27, 134-147.	1.4	115
46	Using Adeno-associated Virus as a Tool to Study Retinal Barriers in Disease. <i>Journal of Visualized Experiments</i> , 2015, , .	0.2	6
47	Gene therapy for the eye focus on mutation-independent approaches. <i>Current Opinion in Neurology</i> , 2015, 28, 51-60.	1.8	16
48	Advancing Therapeutic Strategies for Inherited Retinal Degeneration: Recommendations From the Monaciano Symposium. <i>Investigative Ophthalmology and Visual Science</i> , 2015, 56, 918-931.	3.3	92
49	Rod-Derived Cone Viability Factor Promotes Cone Survival by Stimulating Aerobic Glycolysis. <i>Cell</i> , 2015, 161, 817-832.	13.5	320
50	Spinocerebellar Ataxia Type 6 Protein Aggregates Cause Deficits in Motor Learning and Cerebellar Plasticity. <i>Journal of Neuroscience</i> , 2015, 35, 8882-8895.	1.7	59
51	Targeting Channelrhodopsin-2 to ON-bipolar Cells With Vitreally Administered AAV Restores ON and OFF Visual Responses in Blind Mice. <i>Molecular Therapy</i> , 2015, 23, 7-16.	3.7	166
52	Cell type-specific Nogo-A gene ablation promotes axonal regeneration in the injured adult optic nerve. <i>Cell Death and Differentiation</i> , 2015, 22, 323-335.	5.0	35
53	Viral-mediated RdCVF and RdCVFL expression protects cone and rod photoreceptors in retinal degeneration. <i>Journal of Clinical Investigation</i> , 2015, 125, 105-116.	3.9	143
54	Genotypic and Phenotypic Characterization of P23H Line 1 Rat Model. <i>PLoS ONE</i> , 2015, 10, e0127319.	1.1	51

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55	Gene Therapy for Vision Disorders. , 2015, , 935-948.		1
56	Boosting the success of retinal gene therapy. Science Translational Medicine, 2015, 7, .	5.8	0
57	Intracisternal delivery of NF- κ B-inducible scAAV2/9 reveals locoregional neuroinflammation induced by systemic kainic acid treatment. Frontiers in Molecular Neuroscience, 2014, 7, 92.	1.4	7
58	Imaging Light Responses of Foveal Ganglion Cells in the Living Macaque Eye. Journal of Neuroscience, 2014, 34, 6596-6605.	1.7	48
59	AAV-mediated gene delivery in Dp71-null mouse model with compromised barriers. Glia, 2014, 62, 468-476.	2.5	40
60	Gene therapy for inherited retinal degenerations. Comptes Rendus - Biologies, 2014, 337, 185-192.	0.1	52
61	Vertebrate Cone Opsins Enable Sustained and Highly Sensitive Rapid Control of G i/o Signaling in Anxiety Circuitry. Neuron, 2014, 81, 1263-1273.	3.8	96
62	Retinoschisin gene therapy in photoreceptors, Müller glia or all retinal cells in the Rs1h ^{-/-} mouse. Gene Therapy, 2014, 21, 585-592.	2.3	76
63	Functional rescue of cone photoreceptors in retinitis pigmentosa. Graefe's Archive for Clinical and Experimental Ophthalmology, 2013, 251, 1669-1677.	1.0	21
64	Long-distance axonal regeneration induced by CNTF gene transfer is impaired by axonal misguidance in the injured adult optic nerve. Neurobiology of Disease, 2013, 51, 202-213.	2.1	116
65	In Vivo Directed Evolution of a New Adeno-Associated Virus for Therapeutic Outer Retinal Gene Delivery from the Vitreous. Science Translational Medicine, 2013, 5, 189ra76.	5.8	554
66	Misguidance and modulation of axonal regeneration by Stat3 and Rho/ROCK signaling in the transparent optic nerve. Cell Death and Disease, 2013, 4, e734-e734.	2.7	112
67	Neuronal Nogo-A upregulation does not contribute to ER stress-associated apoptosis but participates in the regenerative response in the axotomized adult retina. Cell Death and Differentiation, 2012, 19, 1096-1108.	5.0	45
68	Systemic scAAV9 variant mediates brain transduction in newborn rhesus macaques. Scientific Reports, 2012, 2, 253.	1.6	29
69	Rapid optical control of nociception with an ion-channel photoswitch. Nature Methods, 2012, 9, 396-402.	9.0	144
70	Enhanced gene delivery to the neonatal retina through systemic administration of tyrosine-mutated AAV9. Gene Therapy, 2012, 19, 176-181.	2.3	69
71	LiGluR Restores Visual Responses in Rodent Models of Inherited Blindness. Molecular Therapy, 2011, 19, 1212-1219.	3.7	168
72	AAV Mediated GDNF Secretion From Retinal Glia Slows Down Retinal Degeneration in a Rat Model of Retinitis Pigmentosa. Molecular Therapy, 2011, 19, 1602-1608.	3.7	98

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73	Intravitreal Injection of AAV2 Transduces Macaque Inner Retina. , 2011, 52, 2775.		177
74	Changes in Adeno-Associated Virus-Mediated Gene Delivery in Retinal Degeneration. Human Gene Therapy, 2010, 21, 571-578.	1.4	55
75	Molecular Evolution of Adeno-associated Virus for Enhanced Glial Gene Delivery. Molecular Therapy, 2009, 17, 2088-2095.	3.7	160
76	Inner Limiting Membrane Barriers to AAV-mediated Retinal Transduction From the Vitreous. Molecular Therapy, 2009, 17, 2096-2102.	3.7	275
77	A Novel Adeno-Associated Viral Variant for Efficient and Selective Intravitreal Transduction of Rat Müller Cells. PLoS ONE, 2009, 4, e7467.	1.1	176
78	Design, Synthesis and Evaluation of a Novel Polymer for Gene Delivery to Mammalian Cells. Letters in Drug Design and Discovery, 2007, 4, 92-98.	0.4	1
79	Suppression of cervical carcinoma cell growth by intracytoplasmic codelivery of anti-oncoprotein E6 antibody and small interfering RNA. Molecular Cancer Therapeutics, 2007, 6, 1728-1735.	1.9	60
80	Cationic Oligonucleotide~Peptide Conjugates with Aggregating Properties Enter Efficiently into Cells while Maintaining Hybridization Properties and Enzymatic Recognition. Journal of the American Chemical Society, 2006, 128, 10763-10771.	6.6	46
81	Intracellular protein delivery with a dimerizable amphiphile for improved complex stability and prolonged protein release in the cytoplasm of adherent cell lines. Journal of Controlled Release, 2006, 116, 353-359.	4.8	31
82	Adeno-Associated Viral Vectors for Gene Therapy. Laboratory Techniques in Biochemistry and Molecular Biology / Edited By T S Work [and] E Work, 2005, , .	0.2	1
83	Intracytoplasmic delivery of anionic proteins. Molecular Therapy, 2004, 9, 964-969.	3.7	57