Deniz Dalkara

List of Publications by Year
in descending order

83	6,005	66343	82547
papers	citations	42 h-index	72 g-index

97	97	97	5333
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Early and late stage gene therapy interventions for inherited retinal degenerations. Progress in Retinal and Eye Research, 2022, 86, 100975.	15.5	85
2	Systemic and local immune responses to intraocular AAV vector administration in non-human primates. Molecular Therapy - Methods and Clinical Development, 2022, 24, 306-316.	4.1	25
3	New Editing Tools for Gene Therapy in Inherited Retinal Dystrophies. CRISPR Journal, 2022, 5, 377-388.	2.9	9
4	Control of Microbial Opsin Expression in Stem Cell Derived Cones for Improved Outcomes in Cell Therapy. Frontiers in Cellular Neuroscience, 2021, 15, 648210.	3.7	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. Nature Medicine, 2021, 27, 1223-1229.	30.7	335
7	Nicotine inhibits the VTA-to-amygdala dopamine pathway to promote anxiety. Neuron, 2021, 109, 2604-2615.e9.	8.1	53
8	Substantial restoration of night vision in adult mice with congenital stationary night blindness. Molecular Therapy - Methods and Clinical Development, 2021, 22, 15-25.	4.1	10
9	Assessing Photoreceptor Status in Retinal Dystrophies: From High-Resolution Imaging to Functional Vision. American Journal of Ophthalmology, 2021, 230, 12-47.	3.3	19
10	Optogenetic therapy: high spatiotemporal resolution and pattern discrimination compatible with vision restoration in non-human primates. Communications Biology, 2021, 4, 125.	4.4	65
11	Progress in Gene Editing Tools and Their Potential for Correcting Mutations Underlying Hearing and Vision Loss. Frontiers in Genome Editing, 2021, 3, 737632.	5.2	13
12	Chronic nicotine increases midbrain dopamine neuron activity and biases individual strategies towards reduced exploration in mice. Nature Communications, 2021, 12, 6945.	12.8	17
13	The metabolic signaling of the nucleoredoxin-like 2 gene supports brain function. Redox Biology, 2021, 48, 102198.	9.0	7
14	Outer retinal transduction by AAV2-7m8 following intravitreal injection in a sheep model of CNGA3 achromatopsia. Gene Therapy, 2021, , .	4.5	2
15	Neural circuits in the mouse retina support color vision in the upper visual field. Nature Communications, 2020, 11, 3481.	12.8	70
16	Towards optogenetic vision restoration with high resolution. PLoS Computational Biology, 2020, 16, e1007857.	3.2	20
17	Advancing Clinical Trials for Inherited Retinal Diseases: Recommendations from the Second Monaciano Symposium. Translational Vision Science and Technology, 2020, 9, 2.	2.2	56
18	The temporal structure of the inner retina at a single glance. Scientific Reports, 2020, 10, 4399.	3.3	14

#	Article	IF	Citations
19	AAV-Mediated Gene Delivery to 3D Retinal Organoids Derived from Human Induced Pluripotent Stem Cells. International Journal of Molecular Sciences, 2020, 21, 994.	4.1	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. Biochemical and Biophysical Research Communications, 2020, 527, 325-330.	2.1	22
22	In vivoâ€“directed evolution of adeno-associated virus in the primate retina. JCI Insight, 2020, 5, .	5.0	71
23	AAV-Mediated Gene to Foveal Cones. Methods in Molecular Biology, 2020, 2173, 101-112.	0.9	5
24	Non-viral delivery of chemically modified mRNA to the retina: Subretinal versus intravitreal administration. Journal of Controlled Release, 2019, 307, 315-330.	9.9	32
25	Restoration of visual function by transplantation of optogenetically engineered photoreceptors. Nature Communications, 2019, 10, 4524.	12.8	92
26	Gene therapy for retinal dystrophy. Nature Medicine, 2019, 25, 198-199.	30.7	13
27	Linking YAP to MÃ¼ller Glia Quiescence Exit in the Degenerative Retina. Cell Reports, 2019, 27, 1712-1725.e6.	6.4	75
28	In vivo sub-millisecond two-photon optogenetics with temporally focused patterned light. Journal of Neuroscience, 2019, 39, 1785-18.	3.6	53
29	The primate model for understanding and restoring vision. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26280-26287.	7.1	73
30	Loss of CRB2 in MÃ¼ller glial cells modifies a CRB1-associated retinitis pigmentosa phenotype into a Leber congenital amaurosis phenotype. Human Molecular Genetics, 2019, 28, 105-123.	2.9	29
31	Neutralizing Antibodies Against Adeno-Associated Virus (AAV): Measurement and Influence on Retinal Gene Delivery. Methods in Molecular Biology, 2018, 1715, 225-238.	0.9	11
32	Noninvasive gene delivery to foveal cones for vision restoration. JCI Insight, 2018, 3, .	5.0	102
33	Optogenetic Light Sensors in Human Retinal Organoids. Frontiers in Neuroscience, 2018, 12, 789.	2.8	48
34	Dosage Thresholds and Influence of Transgene Cassette in Adeno-Associated Virusâ€“Related Toxicity. Human Gene Therapy, 2018, 29, 1235-1241.	2.7	56
35	Vectors and Gene Delivery to the Retina. Annual Review of Vision Science, 2017, 3, 121-140.	4.4	45
36	A New Promoter Allows Optogenetic Vision Restoration with Enhanced Sensitivity in Macaque Retina. Molecular Therapy, 2017, 25, 2546-2560.	8.2	131

#	Article	IF	Citations
37	Sphingosine 1-Phosphate Receptor 1 Modulates CNTF-Induced Axonal Growth and Neuroprotection in the Mouse Visual System. Neural Plasticity, 2017, 2017, 1-11.	2.2	11
38	Insight into the mechanisms of enhanced retinal transduction by the engineered AAV2 capsid variant â€7m8. Biotechnology and Bioengineering, 2016, 113, 2712-2724.	3.3	57
39	Redâ€shifted channelrhodopsin stimulation restores light responses in blind mice, macaque retina, and human retina. EMBO Molecular Medicine, 2016, 8, 1248-1264.	6.9	139
40	Emerging therapies for inherited retinal degeneration. Science Translational Medicine, 2016, 8, 368rv6.	12.4	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. Molecular Therapy, 2016, 24, S106-S107.	8.2	9
42	Melanopsin Variants as Intrinsic Optogenetic On and Off Switches for Transient versus Sustained Activation of G Protein Pathways. Current Biology, 2016, 26, 1206-1212.	3.9	60
43	The Thioredoxin Encoded by the Rod-Derived Cone Viability Factor Gene Protects Cone Photoreceptors Against Oxidative Stress. Antioxidants and Redox Signaling, 2016, 24, 909-923.	5.4	38
44	AAV-mediated gene therapy in Dystrophin-Dp71 deficient mouse leads to blood-retinal barrier restoration and oedema reabsorption. Human Molecular Genetics, 2016, 25, ddw159.	2.9	20
45	Let There Be Light: Gene and Cell Therapy for Blindness. Human Gene Therapy, 2016, 27, 134-147.	2.7	115
46	Using Adeno-associated Virus as a Tool to Study Retinal Barriers in Disease. Journal of Visualized Experiments, 2015, , .	0.3	6
47	Gene therapy for the eye focus on mutation-independent approaches. Current Opinion in Neurology, 2015, 28, 51-60.	3.6	16
48	Advancing Therapeutic Strategies for Inherited Retinal Degeneration: Recommendations From the Monaciano Symposium. Investigative Ophthalmology and Visual Science, 2015, 56, 918-931.	3.3	92
49	Rod-Derived Cone Viability Factor Promotes Cone Survival by Stimulating Aerobic Glycolysis. Cell, 2015, 161, 817-832.	28.9	320
50	Spinocerebellar Ataxia Type 6 Protein Aggregates Cause Deficits in Motor Learning and Cerebellar Plasticity. Journal of Neuroscience, 2015, 35, 8882-8895.	3.6	59
51	Targeting Channelrhodopsin-2 to ON-bipolar Cells With Vitreally Administered AAV Restores ON and OFF Visual Responses in Blind Mice. Molecular Therapy, 2015, 23, 7-16.	8.2	166
52	Cell type-specific Nogo-A gene ablation promotes axonal regeneration in the injured adult optic nerve. Cell Death and Differentiation, 2015, 22, 323-335.	11.2	35
53	Viral-mediated RdCVF and RdCVFL expression protects cone and rod photoreceptors in retinal degeneration. Journal of Clinical Investigation, 2015, 125, 105-116.	8.2	143
54	Genotypic and Phenotypic Characterization of P23H Line 1 Rat Model. PLoS ONE, 2015, 10, e0127319.	2.5	51

#	Article	IF	Citations
55	Gene Therapy for Vision Disorders. , 2015, , 935-948.		1
56	Boosting the success of retinal gene therapy. Science Translational Medicine, 2015, 7, .	12.4	0
57	Intracisternal delivery of NFÃŽÂºB-inducible scAAV2/9 reveals locoregional neuroinflammation induced by systemic kainic acid treatment. Frontiers in Molecular Neuroscience, 2014, 7, 92.	2.9	7
58	Imaging Light Responses of Foveal Ganglion Cells in the Living Macaque Eye. Journal of Neuroscience, 2014, 34, 6596-6605.	3.6	48
59	AAVâ€mediated gene delivery in Dp71â€null mouse model with compromised barriers. Glia, 2014, 62, 468-476.	4.9	40
60	Gene therapy for inherited retinal degenerations. Comptes Rendus - Biologies, 2014, 337, 185-192.	0.2	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.	8.1	96
62	Retinoschisin gene therapy in photoreceptors, MÃ¼ller glia or all retinal cells in the Rs1hâ^'/â^' mouse. Gene Therapy, 2014, 21, 585-592.	4.5	76
63	Functional rescue of cone photoreceptors in retinitis pigmentosa. Graefe's Archive for Clinical and Experimental Ophthalmology, 2013, 251, 1669-1677.	1.9	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.	4.4	116
65	In Vivoâ€"Directed Evolution of a New Adeno-Associated Virus for Therapeutic Outer Retinal Gene Delivery from the Vitreous. Science Translational Medicine, 2013, 5, 189ra76.	12.4	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.	6.3	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.	11.2	45
68	Systemic scAAV9 variant mediates brain transduction in newborn rhesus macaques. Scientific Reports, 2012, 2, 253.	3.3	29
69	Rapid optical control of nociception with an ion-channel photoswitch. Nature Methods, 2012, 9, 396-402.	19.0	144
70	Enhanced gene delivery to the neonatal retina through systemic administration of tyrosine-mutated AAV9. Gene Therapy, 2012, 19, 176-181.	4.5	69
71	LiGluR Restores Visual Responses in Rodent Models of Inherited Blindness. Molecular Therapy, 2011, 19, 1212-1219.	8.2	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.	8.2	98

#	Article	IF	Citations
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.	2.7	55
75	Molecular Evolution of Adeno-associated Virus for Enhanced Glial Gene Delivery. Molecular Therapy, 2009, 17, 2088-2095.	8.2	160
76	Inner Limiting Membrane Barriers to AAV-mediated Retinal Transduction From the Vitreous. Molecular Therapy, 2009, 17, 2096-2102.	8.2	275
77	A Novel Adeno-Associated Viral Variant for Efficient and Selective Intravitreal Transduction of Rat MÃ¼ller Cells. PLoS ONE, 2009, 4, e7467.	2.5	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.	0.7	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.	4.1	60
80	Cationic Oligonucleotideâ€"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.	13.7	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.	9.9	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.	8.2	57