

Digital Museum of Retinal Ganglion Cells with Dense Axons

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Synaptic Convergence Patterns onto Retinal Ganglion Cells Are Preserved despite Topographic Variation in Pre- and Postsynaptic Territories. <i>Cell Reports</i> , 2018, 25, 2017-2026.e3.	2.9	31
2	Understanding tumor ecosystems by single-cell sequencing: promises and limitations. <i>Genome Biology</i> , 2018, 19, 211.	3.8	161
3	Dopaminergic amacrine cell number, plexus density, and dopamine content in the mouse retina: Strain differences and effects of Bax gene disruption. <i>Experimental Eye Research</i> , 2018, 177, 208-212.	1.2	14
4	VAST (Volume Annotation and Segmentation Tool): Efficient Manual and Semi-Automatic Labeling of Large 3D Image Stacks. <i>Frontiers in Neural Circuits</i> , 2018, 12, 88.	1.4	135
5	Typology and Circuitry of Suppressed-by-Contrast Retinal Ganglion Cells. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 269.	1.8	28
6	The dynamic receptive fields of retinal ganglion cells. <i>Progress in Retinal and Eye Research</i> , 2018, 67, 102-117.	7.3	58
7	Scaling of the AIS and Somatodendritic Compartments in $\hat{\pm}$ S RGCs. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 436.	1.8	30
8	Molecular signatures of retinal ganglion cells revealed through single cell profiling. <i>Scientific Reports</i> , 2019, 9, 15778.	1.6	55
9	Characterization of LSD1 Expression Within the Murine Eye. , 2019, 60, 4619.		7
10	Paradoxical Rules of Spike Train Decoding Revealed at the Sensitivity Limit of Vision. <i>Neuron</i> , 2019, 104, 576-587.e11.	3.8	37
11	Molecular Classification and Comparative Taxonomics of Foveal and Peripheral Cells in Primate Retina. <i>Cell</i> , 2019, 176, 1222-1237.e22.	13.5	347
12	Voltage- and calcium-gated ion channels of neurons in the vertebrate retina. <i>Progress in Retinal and Eye Research</i> , 2019, 72, 100760.	7.3	56
13	Response of Mouse Visual Cortical Neurons to Electric Stimulation of the Retina. <i>Frontiers in Neuroscience</i> , 2019, 13, 324.	1.4	14
14	Big data in nanoscale connectomics, and the greed for training labels. <i>Current Opinion in Neurobiology</i> , 2019, 55, 180-187.	2.0	15
15	Expression and Roles of the Immunoglobulin Superfamily Recognition Molecule Sidekick1 in Mouse Retina. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 485.	1.4	22
16	SB-2 Acquisition of Large Volume EM Data Set and 3D Reconstruction with Automated Segmentation Application. <i>Microscopy (Oxford, England)</i> , 2019, 68, i14-i14.	0.7	0
17	UNI-EM: An Environment for Deep Neural Network-Based Automated Segmentation of Neuronal Electron Microscopic Images. <i>Scientific Reports</i> , 2019, 9, 19413.	1.6	25
18	Editorial: Electron-Microscopy-Based Tools for Imaging Cellular Circuits and Organisms. <i>Frontiers in Neural Circuits</i> , 2019, 13, 64.	1.4	1

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19	Single-Cell Profiles of Retinal Ganglion Cells Differing in Resilience to Injury Reveal Neuroprotective Genes. <i>Neuron</i> , 2019, 104, 1039-1055.e12.	3.8	396
20	Function first: classifying cell types and circuits of the retina. <i>Current Opinion in Neurobiology</i> , 2019, 56, 8-15.	2.0	39
21	Mice Reach Higher Visual Sensitivity at Night by Using a More Efficient Behavioral Strategy. <i>Current Biology</i> , 2020, 30, 42-53.e4.	1.8	14
22	Potential mechanisms of retinal ganglion cell type-specific vulnerability in glaucoma. <i>Australasian journal of optometry, The</i> , 2020, 103, 562-571.	0.6	15
23	Understanding the retinal basis of vision across species. <i>Nature Reviews Neuroscience</i> , 2020, 21, 5-20.	4.9	191
24	Neural circuits in the mouse retina support color vision in the upper visual field. <i>Nature Communications</i> , 2020, 11, 3481.	5.8	70
25	Dendritic and parallel processing of visual threats in the retina control defensive responses. <i>Science Advances</i> , 2020, 6, .	4.7	30
26	Morphological identification and systematic classification of mammalian retinal ganglion cells. I. Rabbit retinal ganglion cells. <i>Journal of Comparative Neurology</i> , 2020, 528, 3305-3450.	0.9	3
27	Visual Experience Influences Dendritic Orientation but Is Not Required for Asymmetric Wiring of the Retinal Direction Selective Circuit. <i>Cell Reports</i> , 2020, 31, 107844.	2.9	11
28	Zebrafish Retinal Ganglion Cells Asymmetrically Encode Spectral and Temporal Information across Visual Space. <i>Current Biology</i> , 2020, 30, 2927-2942.e7.	1.8	37
29	Cell Types of the Human Retina and Its Organoids at Single-Cell Resolution. <i>Cell</i> , 2020, 182, 1623-1640.e34.	13.5	359
30	Key Technology of Virtual Roaming System in the Museum of Ancient High-Imitative Calligraphy and Paintings. <i>IEEE Access</i> , 2020, 8, 151072-151086.	2.6	18
31	Retinal ganglion cell defects cause decision shifts in visually evoked defense responses. <i>Journal of Neurophysiology</i> , 2020, 124, 1530-1549.	0.9	4
32	Type-specific dendritic integration in mouse retinal ganglion cells. <i>Nature Communications</i> , 2020, 11, 2101.	5.8	30
33	Mouse Retinal Cell Atlas: Molecular Identification of over Sixty Amacrine Cell Types. <i>Journal of Neuroscience</i> , 2020, 40, 5177-5195.	1.7	190
34	Massive Data Management and Sharing Module for Connectome Reconstruction. <i>Brain Sciences</i> , 2020, 10, 314.	1.1	3
35	Vertebrate vision: Lessons from non-model species. <i>Seminars in Cell and Developmental Biology</i> , 2020, 106, 1-4.	2.3	12
36	Clustering of Neural Activity: A Design Principle for Population Codes. <i>Frontiers in Computational Neuroscience</i> , 2020, 14, 20.	1.2	9

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37	Mapping developmental trajectories and subtype diversity of normal and glaucomatous human retinal ganglion cells by single-cell transcriptome analysis. <i>Stem Cells</i> , 2020, 38, 1279-1291.	1.4	5
38	nGnG Amacrine Cells and Brn3b-negative M1 ipRGCs are Specifically Labeled in the ChAT-ChR2-EYFP Mouse. , 2020, 61, 14.		5
39	From random to regular: Variation in the patterning of retinal mosaics*. <i>Journal of Comparative Neurology</i> , 2020, 528, 2135-2160.	0.9	44
40	Synaptic Specificity, Recognition Molecules, and Assembly of Neural Circuits. <i>Cell</i> , 2020, 181, 536-556.	13.5	206
41	Neurophysiological and medical considerations for better-performing microelectronic retinal prostheses. <i>Journal of Neural Engineering</i> , 2020, 17, 033001.	1.8	16
42	Generative and discriminative model-based approaches to microscopic image restoration and segmentation. <i>Microscopy (Oxford, England)</i> , 2020, 69, 79-91.	0.7	10
43	Identification of retinal ganglion cell types and brain nuclei expressing the transcription factor Brn3c/Pou4f3 using a Cre recombinase knock-in allele. <i>Journal of Comparative Neurology</i> , 2021, 529, 1926-1953.	0.9	9
44	An offset ON-OFF receptive field is created by gap junctions between distinct types of retinal ganglion cells. <i>Nature Neuroscience</i> , 2021, 24, 105-115.	7.1	15
45	Color processing. , 2021, , 288-317.		0
46	Contrast sensitivity. , 2021, , 68-81.		0
47	Unified Classification of Mouse Retinal Ganglion Cells Using Function, Morphology, and Gene Expression. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
48	Object localization. , 2021, , 162-183.		0
49	Contrast suppression. , 2021, , 102-123.		1
50	Molecular classification of zebrafish retinal ganglion cells links genes to cell types to behavior. <i>Neuron</i> , 2021, 109, 645-662.e9.	3.8	49
51	Genetic control of retinal ganglion cell genesis. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 4417-4433.	2.4	16
52	Inter-mosaic coordination of retinal receptive fields. <i>Nature</i> , 2021, 592, 409-413.	13.7	34
53	Advances in Regeneration of Retinal Ganglion Cells and Optic Nerves. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4616.	1.8	12
54	Cell-type-specific binocular vision guides predation in mice. <i>Neuron</i> , 2021, 109, 1527-1539.e4.	3.8	59

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55	Expression of cell markers and transcription factors in the avian retina compared with that in the marmoset retina. <i>Journal of Comparative Neurology</i> , 2021, 529, 3171-3193.	0.9	5
56	OFF-transient alpha RGCs mediate looming triggered innate defensive response. <i>Current Biology</i> , 2021, 31, 2263-2273.e3.	1.8	29
58	Transplantation of miPSC/mESC-derived retinal ganglion cells into healthy and glaucomatous retinas. <i>Molecular Therapy - Methods and Clinical Development</i> , 2021, 21, 180-198.	1.8	30
60	Cell Types and Synapses Expressing the SNARE Complex Regulating Proteins Complexin 1 and Complexin 2 in Mammalian Retina. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8131.	1.8	1
64	Computational and Molecular Properties of Starburst Amacrine Cell Synapses Differ With Postsynaptic Cell Type. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 660773.	1.8	9
65	Fine-Grained System Identification of Nonlinear Neural Circuits. , 2021, , .		2
66	Generating and Using Transcriptomically Based Retinal Cell Atlases. <i>Annual Review of Vision Science</i> , 2021, 7, 43-72.	2.3	31
67	Genetic interplay between transcription factor Pou4f1/Brn3a and neurotrophin receptor Ret in retinal ganglion cell type specification. <i>Neural Development</i> , 2021, 16, 5.	1.1	4
68	A novel retinal ganglion cell quantification tool based on deep learning. <i>Scientific Reports</i> , 2021, 11, 702.	1.6	25
81	A projection specific logic to sampling visual inputs in mouse superior colliculus. <i>ELife</i> , 2019, 8, .	2.8	53
83	Identification of long noncoding RNAs in injury-resilient and injury-susceptible mouse retinal ganglion cells. <i>BMC Genomics</i> , 2021, 22, 741.	1.2	3
92	Retinal Mosaics. , 2020, , 344-361.		0
93	Circuits for Feature Selectivity in the Inner Retina. , 2020, , 275-292.		2
95	Mammalian Retina Development. , 2020, , 234-251.		2
97	Retinal patterns and the cellular repertoire of neuropsin (Opn5) retinal ganglion cells. <i>Journal of Comparative Neurology</i> , 2022, 530, 1247-1262.	0.9	9
103	Interrelationships between Cellular Density, Mosaic Patterning, and Dendritic Coverage of VGluT3 Amacrine Cells. <i>Journal of Neuroscience</i> , 2021, 41, 103-117.	1.7	1
104	Classification of pseudocalcium visual responses from mouse retinal ganglion cells. <i>Visual Neuroscience</i> , 2021, 38, E016.	0.5	3
106	Morphological and distributional properties of SMI-32 immunoreactive ganglion cells in the rat retina. <i>Journal of Comparative Neurology</i> , 2022, 530, 1276-1287.	0.9	5

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107	Dopamine D1 and D4 receptors contribute to light adaptation in ON-sustained retinal ganglion cells. <i>Journal of Neurophysiology</i> , 2021, 126, 2039-2052.	0.9	8
108	Dendro-somatic synaptic inputs to ganglion cells contradict receptive field and connectivity conventions in the mammalian retina. <i>Current Biology</i> , 2022, 32, 315-328.e4.	1.8	8
109	Molecular studies into cell biological role of Copine-4 in Retinal Ganglion Cells. <i>PLoS ONE</i> , 2021, 16, e0255860.	1.1	4
110	Interrelationships between Cellular Density, Mosaic Patterning, and Dendritic Coverage of VGluT3 Amacrine Cells. <i>Journal of Neuroscience</i> , 2021, 41, 103-117.	1.7	6
112	Differential susceptibility of retinal ganglion cell subtypes against neurodegenerative diseases. <i>Graefes's Archive for Clinical and Experimental Ophthalmology</i> , 2022, 260, 1807-1821.	1.0	6
113	Identification of cis-regulatory modules for adeno-associated virus-based cell-type-specific targeting in the retina and brain. <i>Journal of Biological Chemistry</i> , 2022, 298, 101674.	1.6	3
114	Finding Needles in a Haystack with Light: Resolving the Microcircuitry of the Brain with Fluorescence Microscopy. <i>Molecules and Cells</i> , 2022, 45, 84-92.	1.0	2
115	Diversification of multipotential postmitotic mouse retinal ganglion cell precursors into discrete types. <i>ELife</i> , 2022, 11, .	2.8	33
116	Reconstruction of neocortex: Organelles, compartments, cells, circuits, and activity. <i>Cell</i> , 2022, 185, 1082-1100.e24.	13.5	84
117	Adult Expression of Tbr2 Is Required for the Maintenance but Not Survival of Intrinsically Photosensitive Retinal Ganglion Cells. <i>Frontiers in Cellular Neuroscience</i> , 2022, 16, 826590.	1.8	2
118	Cell numbers, cell ratios, and developmental plasticity in the rod pathway of the mouse retina. <i>Journal of Anatomy</i> , 2023, 243, 204-222.	0.9	3
120	RealNeuralNetworks.jl: An Integrated Julia Package for Skeletonization, Morphological Analysis, and Synaptic Connectivity Analysis of Terabyte-Scale 3D Neural Segmentations. <i>Frontiers in Neuroinformatics</i> , 2022, 16, 828169.	1.3	3
121	Feature Detection by Retinal Ganglion Cells. <i>Annual Review of Vision Science</i> , 2022, 8, 135-169.	2.3	32
122	What the eye tells the brain: retinal feature extraction. <i>Neuroforum</i> , 2022, 28, 13-19.	0.2	0
123	Realistic retinal modeling unravels the differential role of excitation and inhibition to starburst amacrine cells in direction selectivity. <i>PLoS Computational Biology</i> , 2021, 17, e1009754.	1.5	6
124	Partial connectomes of labeled dopaminergic circuits reveal non-synaptic communication and axonal remodeling after exposure to cocaine. <i>ELife</i> , 2021, 10, .	2.8	16
125	Tools and Biomarkers for the Study of Retinal Ganglion Cell Degeneration. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4287.	1.8	4
130	Optic chiasmatic potential by endoscopically implanted skull base microinvasive biosensor: a brain-machine interface approach for anterior visual pathway assessment. <i>Theranostics</i> , 2022, 12, 3273-3287.	4.6	2

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131	Differences in spike generation instead of synaptic inputs determine the feature selectivity of two retinal cell types. <i>Neuron</i> , 2022, 110, 2110-2123.e4.	3.8	18
132	Conserved circuits for direction selectivity in the primate retina. <i>Current Biology</i> , 2022, 32, 2529-2538.e4.	1.8	14
135	Origins of direction selectivity in the primate retina. <i>Nature Communications</i> , 2022, 13, .	5.8	19
136	Retinal OFF ganglion cells allow detection of quantal shadows at starlight. <i>Current Biology</i> , 2022, 32, 2848-2857.e6.	1.8	2
139	Retinal Encoding of Natural Scenes. <i>Annual Review of Vision Science</i> , 2022, 8, 171-193.	2.3	5
140	Functional convergence of on-off direction-selective ganglion cells in the visual thalamus. <i>Current Biology</i> , 2022, 32, 3110-3120.e6.	1.8	5
141	Unified classification of mouse retinal ganglion cells using function, morphology, and gene expression. <i>Cell Reports</i> , 2022, 40, 111040.	2.9	68
142	Vision-Dependent and -Independent Molecular Maturation of Mouse Retinal Ganglion Cells. <i>Neuroscience</i> , 2023, 508, 153-173.	1.1	10
143	Vision: Rules of thalamic mixology. <i>Current Biology</i> , 2022, 32, R779-R781.	1.8	1
145	An optical approach for mapping functional connectivity at single-cell resolution in brain circuits. <i>Cell Reports Methods</i> , 2022, 2, 100272.	1.4	0
146	Sensitivity to extracellular potassium underlies type-intrinsic differences in retinal ganglion cell excitability. <i>Frontiers in Cellular Neuroscience</i> , 0, 16, .	1.8	3
147	Layer-Specific Developmentally Precise Axon Targeting of Transient Suppressed-by-Contrast Retinal Ganglion Cells. <i>Journal of Neuroscience</i> , 2022, 42, 7213-7221.	1.7	2
150	Linking transcriptomes with morphological and functional phenotypes in mammalian retinal ganglion cells. <i>Cell Reports</i> , 2022, 40, 111322.	2.9	13
152	Homeostatic plasticity in the retina. <i>Progress in Retinal and Eye Research</i> , 2023, 94, 101131.	7.3	5
154	The Effect of Aging on Retinal Function and Retinal Ganglion Cell Morphology Following Intraocular Pressure Elevation. <i>Frontiers in Aging Neuroscience</i> , 0, 14, .	1.7	8
155	Pan-retinal ganglion cell markers in mice, rats, and rhesus macaques. <i>Zoological Research</i> , 2022, 44, 1-23.	0.9	8
156	Alpha retinal ganglion cells in pigmented mice retina: number and distribution. <i>Frontiers in Neuroanatomy</i> , 0, 16, .	0.9	4
157	The adenosine A2A receptor antagonist KW6002 distinctly regulates retinal ganglion cell morphology during postnatal development and neonatal inflammation. <i>Frontiers in Pharmacology</i> , 0, 13, .	1.6	2

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158	Key transcription factors influence the epigenetic landscape to regulate retinal cell differentiation. <i>Nucleic Acids Research</i> , 2023, 51, 2151-2176.	6.5	4
159	Distinctive synaptic structural motifs link excitatory retinal interneurons to diverse postsynaptic partner types. <i>Cell Reports</i> , 2023, 42, 112006.	2.9	2
160	Defining Selective Neuronal Resilience and Identifying Targets of Neuroprotection and Axon Regeneration Using Single-Cell RNA Sequencing: Computational Approaches. <i>Methods in Molecular Biology</i> , 2023, , 19-41.	0.4	0
161	SynapseCLR: Uncovering features of synapses in primary visual cortex through contrastive representation learning. <i>Patterns</i> , 2023, 4, 100693.	3.1	1
163	Special nuclear layer contacts between starburst amacrine cells in the mouse retina. <i>Frontiers in Ophthalmology</i> , 0, 3, .	0.2	0
164	Retinal ganglion cells adapt to ionic stress in experimental glaucoma. <i>Frontiers in Neuroscience</i> , 0, 17, .	1.4	1
165	Crowdsourcing and its applications to ophthalmology. <i>Expert Review of Ophthalmology</i> , 2023, 18, 113-119.	0.3	0
166	New insights into retinal circuits through EM connectomics: what we have learnt and what remains to be learned. <i>Frontiers in Ophthalmology</i> , 0, 3, .	0.2	2
193	Ancestral photoreceptor diversity as the basis of visual behaviour. <i>Nature Ecology and Evolution</i> , 2024, 8, 374-386.	3.4	1