Thomas A Reh

List of Publications by Year
in descending order

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112
papers

11,300
citations

30070
54
h-index

38395
95
g-index

115
all docs

115
docs citations

115
times ranked

6112
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient generation of retinal progenitor cells from human embryonic stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 12769-12774.	7.1	656
2	Transplantation of Human Embryonic Stem Cell-Derived Photoreceptors Restores Some Visual Function in Crx-Deficient Mice. Cell Stem Cell, 2009, 4, 73-79.	11.1	585
3	MÃ¼ller glia are a potential source of neural regeneration in the postnatal chicken retina. Nature Neuroscience, 2001, 4, 247-252.	14.8	527
4	A thyroid hormone receptor that is required for the development of green cone photoreceptors. Nature Genetics, 2001, 27, 94-98.	21.4	485
5	Stimulation of functional neuronal regeneration from MÃ¼ller glia in adult mice. Nature, 2017, 548, 103-107.	27.8	423
6	Generation, Purification and Transplantation of Photoreceptors Derived from Human Induced Pluripotent Stem Cells. PLoS ONE, 2010, 5, e8763.	2.5	378
7	Stimulation of neural regeneration in the mouse retina. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19508-19513.	7.1	347
8	Identification of a Proliferating Marginal Zone of Retinal Progenitors in Postnatal Chickens. Developmental Biology, 2000, 220, 197-210.	2.0	299
9	EGF and TGF-Î± stimulate retinal neuroepithelial cell proliferation in vitro. Neuron, 1991, 6, 923-936.	8.1	273
10	Making the gradient: Thyroid hormone regulates cone opsin expression in the developing mouse retina. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 6218-6223.	7.1	232
11	Potential of MÃ¼ller glia to become neurogenic retinal progenitor cells. Glia, 2003, 43, 70-76.	4.9	224
12	Transgenic expression of the proneural transcription factor Ascl1 in MÃ¼ller glia stimulates retinal regeneration in young mice. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13717-13722.	7.1	220
13	ASCL1 reprograms mouse MÃ¼ller glia into neurogenic retinal progenitors. Development (Cambridge), 2013, 140, 2619-2631.	2.5	209
14	Insulin and Fibroblast Growth Factor 2 Activate a Neurogenic Program in MÃ¼ller Glia of the Chicken Retina. Journal of Neuroscience, 2002, 22, 9387-9398.	3.6	204
15	Single-Cell Transcriptomic Comparison of Human Fetal Retina, hPSC-Derived Retinal Organoids, and Long-Term Retinal Cultures. Cell Reports, 2020, 30, 1644-1659.e4.	6.4	188
16	Sonic Hedgehog Promotes Rod Photoreceptor Differentiation in Mammalian Retinal Cells<i>In Vitro</i>. Journal of Neuroscience, 1997, 17, 6277-6288.	3.6	187
17	Conserved microRNA pathway regulates developmental timing of retinal neurogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2362-70.	7.1	187
18	Retinoid X Receptor Î³ Is Necessary to Establish the S-opsin Gradient in Cone Photoreceptors of the Developing Mouse Retina. , 2005, 46, 2897.		181

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19	Regulation of tyrosine hydroxylase-containing amacrine cell number in larval frog retina. Developmental Biology, 1986, 114, 463-469.	2.0	176
20	Notch signaling specifies prosensory domains via lateral induction in the developing mammalian inner ear. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 15792-15797.	7.1	170
21	Neural Regeneration and Cell Replacement: A View from the Eye. Cell Stem Cell, 2008, 2, 538-549.	11.1	155
22	Transient inactivation of Notch signaling synchronizes differentiation of neural progenitor cells. Developmental Biology, 2007, 304, 479-498.	2.0	153
23	p27Kip1 Regulates Cell Cycle Withdrawal of Late Multipotent Progenitor Cells in the Mammalian Retina. Developmental Biology, 2000, 219, 299-314.	2.0	152
24	Retinal stem cells and regeneration. International Journal of Developmental Biology, 2004, 48, 1003-1014.	0.6	146
25	Persistent Progenitors at the Retinal Margin of ptc+/- Mice. Journal of Neuroscience, 2004, 24, 229-237.	3.6	138
26	Cellular interactions determine neuronal phenotypes in rodent retinal cultures. Journal of Neurobiology, 1992, 23, 1067-1083.	3.6	137
27	Blimp1 controls photoreceptor versus bipolar cell fate choice during retinal development. Development (Cambridge), 2010, 137, 619-629.	2.5	132
28	Dicer Is Required for the Transition from Early to Late Progenitor State in the Developing Mouse Retina. Journal of Neuroscience, 2010, 30, 4048-4061.	3.6	132
29	Notch signaling regulates regeneration in the avian retina. Developmental Biology, 2007, 312, 300-311.	2.0	128
30	Neurodevelopmental control by thyroid hormone receptors. Current Opinion in Neurobiology, 2002, 12, 49-56.	4.2	125
31	Genome-Wide Analysis of MÃ¼ller Glial Differentiation Reveals a Requirement for Notch Signaling in Postmitotic Cells to Maintain the Glial Fate. PLoS ONE, 2011, 6, e22817.	2.5	124
32	Photoreceptor cell fate specification in vertebrates. Development (Cambridge), 2015, 142, 3263-3273.	2.5	122
33	Ascl1 expression defines a subpopulation of lineage-restricted progenitors in the mammalian retina. Development (Cambridge), 2011, 138, 3519-3531.	2.5	121
34	Retinal neurons regulate proliferation of postnatal progenitors and MuÌˆller glia in the rat retina via TGFÎ² signaling. Development (Cambridge), 2005, 132, 3015-3026.	2.5	113
35	Exogenous Growth Factors Stimulate the Regeneration of Ganglion Cells in the Chicken Retina. Developmental Biology, 2002, 251, 367-379.	2.0	112
36	Exogenous growth factors induce the production of ganglion cells at the retinal margin. Development (Cambridge), 2002, 129, 2283-2291.	2.5	108

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37	Epidermal growth factor receptor expression regulates proliferation in the postnatal rat retina. Glia, 2006, 54, 94-104.	4.9	106
38	Growth factors induce neurogenesis in the ciliary body. Developmental Biology, 2003, 259, 225-240.	2.0	104
39	Hesr1 and Hesr2 may act as early effectors of Notch signaling in the developing cochlea. Developmental Biology, 2008, 316, 87-99.	2.0	94
40	Regulated Reprogramming in the Regeneration of Sensory Receptor Cells. Neuron, 2011, 71, 389-405.	8.1	93
41	Adult Donor Rod Photoreceptors Integrate into the Mature Mouse Retina. , 2011, 52, 5266.		88
42	Acheateâ€scute like 1 (Ascl1) is required for normal deltaâ€like (Dll) gene expression and notch signaling during retinal development. Developmental Dynamics, 2009, 238, 2163-2178.	1.8	82
43	Temporal and spatial pattern ofMASH-1 expression in the developing rat retina demonstrates progenitor cell heterogeneity. Journal of Comparative Neurology, 1996, 369, 319-327.	1.6	80
44	Notch Activity Is Downregulated Just prior to Retinal Ganglion Cell Differentiation. Developmental Neuroscience, 2006, 28, 128-141.	2.0	80
45	Efficient stimulation of retinal regeneration from MÃ¼ller glia in adult mice using combinations of proneural bHLH transcription factors. Cell Reports, 2021, 37, 109857.	6.4	79
46	Strategies for retinal repair: cell replacement and regeneration. Progress in Brain Research, 2009, 175, 23-31.	1.4	75
47	BMP4 and CNTF are neuroprotective and suppress damage-induced proliferation of MÃ¼ller glia in the retina. Molecular and Cellular Neurosciences, 2004, 27, 531-542.	2.2	74
48	Retinal regeneration in birds and mice. Current Opinion in Genetics and Development, 2016, 40, 57-64.	3.3	72
49	Hair-cell regeneration in organ cultures of the postnatal chicken inner ear. Hearing Research, 1993, 70, 85-108.	2.0	69
50	Microglia Suppress Ascl1-Induced Retinal Regeneration in Mice. Cell Reports, 2020, 33, 108507.	6.4	66
51	NeuroD1 Regulates Expression of Thyroid Hormone Receptor Î²2 and Cone Opsins in the Developing Mouse Retina. Journal of Neuroscience, 2008, 28, 749-756.	3.6	65
52	Transdifferentiation of Pigmented Epithelial Cells: A Source of Retinal Stem Cells?. Developmental Neuroscience, 2001, 23, 268-276.	2.0	63
53	Transforming growth factorâ€Î²â€3 is mitogenic for rat retinal progenitor cells <i>in vitro</i>. Journal of Neurobiology, 1995, 28, 133-145.	3.6	62
54	EGF stimulates mÃ¼ller glial proliferation via a BMPâ€dependent mechanism. Glia, 2013, 61, 778-789.	4.9	61

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55	Sonic hedgehog regulates proliferation of the retinal ciliary marginal zone in posthatch chicks. Developmental Dynamics, 2005, 233, 66-75.	1.8	60
56	Retinal Stem Cells. Methods in Enzymology, 2006, 419, 52-73.	1.0	60
57	DNase I hypersensitivity analysis of the mouse brain and retina identifies region-specific regulatory elements. Epigenetics and Chromatin, 2015, 8, 8.	3.9	60
58	Hes5 Expression in the Postnatal and Adult Mouse Inner Ear and the Drug-Damaged Cochlea. JARO - Journal of the Association for Research in Otolaryngology, 2009, 10, 321-340.	1.8	59
59	FGFR3 Expression during Development and Regeneration of the Chick Inner Ear Sensory Epithelia. Developmental Biology, 2001, 238, 247-259.	2.0	57
60	Neural stem cells: form and function. Nature Neuroscience, 2002, 5, 392-394.	14.8	57
61	Activin signaling limits the competence for retinal regeneration from the pigmented epithelium. Mechanisms of Development, 2008, 125, 106-116.	1.7	55
62	Ezh2 maintains retinal progenitor proliferation, transcriptional integrity, and the timing of late differentiation. Developmental Biology, 2015, 403, 128-138.	2.0	54
63	Retinoic acid promotes rod photoreceptor differentiation in rat retina in vivo. NeuroReport, 1999, 10, 2389-2394.	1.2	52
64	Exogenous growth factors induce the production of ganglion cells at the retinal margin. Development (Cambridge), 2002, 129, 2283-91.	2.5	51
65	P53 is required for the developmental restriction in MÃ¼ller glial proliferation in mouse retina. Glia, 2012, 60, 1579-1589.	4.9	50
66	Microarray Characterization of Human Embryonic Stem Cellâ€"Derived Retinal Cultures. , 2011, 52, 4897.		49
67	The microRNA expression profile of mouse MÃ¼ller glia in vivo and in vitro. Scientific Reports, 2016, 6, 35423.	3.3	49
68	Qualitative and quantitative measures of plasticity during the normal development of the Rana pipiens retinotectal projection. Developmental Brain Research, 1983, 10, 187-200.	1.7	46
69	The nuclear receptor transcription factor, retinoid-related orphan receptor Î², regulates retinal progenitor proliferation. Mechanisms of Development, 1998, 77, 149-164.	1.7	45
70	Single-cell ATAC-seq of fetal human retina and stem-cell-derived retinal organoids shows changing chromatin landscapes during cell fate acquisition. Cell Reports, 2022, 38, 110294.	6.4	43
71	MÃ¼ller glial microRNAs are required for the maintenance of glial homeostasis and retinal architecture. Nature Communications, 2017, 8, 1603.	12.8	42
72	Activation of BMP-Smad1/5/8 Signaling Promotes Survival of Retinal Ganglion Cells after Damage In Vivo. PLoS ONE, 2012, 7, e38690.	2.5	42

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73	Relationship between deltaâ€like and proneural bHLH genes during chick retinal development. Developmental Dynamics, 2008, 237, 1565-1580.	1.8	40
74	Transdifferentiation and retinal regeneration. Seminars in Cell Biology, 1995, 6, 137-142.	3.4	38
75	Downregulation of Otx2 in the dedifferentiated RPE cells of regenerating newt retina. Developmental Brain Research, 2005, 155, 49-59.	1.7	38
76	Baf60c is a component of the neural progenitorâ€specific BAF complex in developing retina. Developmental Dynamics, 2008, 237, 3016-3023.	1.8	38
77	Directing Human Embryonic Stem Cells to a Retinal Fate. Methods in Molecular Biology, 2010, 636, 139-153.	0.9	35
78	Dicer is required for the maintenance of notch signaling and gliogenic competence during mouse retinal development. Developmental Neurobiology, 2011, 71, 1153-1169.	3.0	34
79	MicroRNAs miR-25, let-7 and miR-124 regulate the neurogenic potential of MÃ¼ller glia in mice. Development (Cambridge), 2019, 146, .	2.5	33
80	Identification of ciliary epithelial-specific genes using subtractive libraries and cDNA arrays in the avian eye. Developmental Dynamics, 2004, 229, 529-540.	1.8	32
81	Production and Transplantation of Retinal Cells from Human and Mouse Embryonic Stem Cells. Methods in Molecular Biology, 2012, 884, 229-246.	0.9	31
82	A diffusible factor from normal retinal cells promotes rod photoreceptor survival in anin vitro model of retinitis pigmentosa. Journal of Neurobiology, 1999, 39, 475-490.	3.6	30
83	Epigenetics in neuronal regeneration. Seminars in Cell and Developmental Biology, 2020, 97, 63-73.	5.0	29
84	<scp>NFkB</scp>â€signaling promotes glial reactivity and suppresses MÃ¼ller gliaâ€mediated neuron regeneration in the mammalian retina. Glia, 2022, 70, 1380-1401.	4.9	28
85	Right timing for retina repair. Nature, 2006, 444, 156-157.	27.8	26
86	Pea3 expression is regulated by FGF signaling in developing retina. Developmental Dynamics, 2006, 235, 327-335.	1.8	25
87	Studying the Generation of Regenerated Retinal Neuron from MÃ¼ller Glia in the Mouse Eye. Methods in Molecular Biology, 2012, 884, 213-227.	0.9	25
88	The past, present, and future of retinal regeneration. Experimental Eye Research, 2014, 123, 105-106.	2.6	24
89	Generation of Neuronal Diversity in the Vertebrate Retina. , 1992, , 433-467.		22
90	Comparative Biology of Vertebrate Retinal Regeneration: Restoration of Vision through Cellular Reprogramming. Cold Spring Harbor Perspectives in Biology, 2022, 14, a040816.	5.5	20

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91	Small molecule Photoregulin3 prevents retinal degeneration in the RhoP23H mouse model of retinitis pigmentosa. ELife, 2017, 6, .	6.0	19
92	Homologies Between Vertebrate and Invertebrate Eyes. Results and Problems in Cell Differentiation, 2002, 37, 219-255.	0.7	18
93	Potential of Small Moleculeâ€"Mediated Reprogramming of Rod Photoreceptors to Treat Retinitis Pigmentosa. , 2016, 57, 6407.		18
94	A Comparative Analysis of Reactive MÃ¼ller Glia Gene Expression After Light Damage and microRNA-Depleted MÃ¼ller Gliaâ€"Focus on microRNAs. Frontiers in Cell and Developmental Biology, 2020, 8, 620459.	3.7	16
95	The GIPC1-Akt1 Pathway Is Required for the Specification of the Eye Field in Mouse Embryonic Stem Cells. Stem Cells, 2015, 33, 2674-2685.	3.2	15
96	Human retinal model systems: Strengths, weaknesses, and future directions. Developmental Biology, 2021, 480, 114-122.	2.0	15
97	Molecular Control of Cell Diversification in the Vertebrate Retina. Results and Problems in Cell Differentiation, 2000, 31, 69-91.	0.7	14
98	The Regulation of Neuronal Production during Retinal Neurogenesis. , 1989, , 43-67.		11
99	Characterization of germinal neuroepithelial cells in normal and regenerating retina. Neuroscience Research Supplement: the Official Journal of the Japan Neuroscience Society, 1989, 10, S151-S161.	0.0	10
100	Regenerative Medicine for the Special Senses: Restoring the Inputs. Journal of Neuroscience, 2012, 32, 14053-14057.	3.6	10
101	Microglial depletion abolishes ischemic preconditioning in white matter. Glia, 2022, 70, 661-674.	4.9	8
102	Regenerative Medicine for Diseases of the Retina. , 2011, , 427-449.		2
103	The Development of the Retina. , 2006, , 3-21.		1
104	Genesis and migration. , 2012, , 49-75.		1
105	The Development of the Retina. , 2013, , 330-341.		1
106	Regeneration: transdifferentiation and stem cells. , 0, , 307-324.		0
107	Relationship between deltaâ€like and proneural bHLH genes during chick retinal development. Developmental Dynamics, 2008, 237, spcone.	1.8	0
108	Acheate-scute like 1 (Ascl1) is required for normal delta-like (Dll) gene expression and notch signaling during retinal development. Developmental Dynamics, 2009, 238, spcone-spcone.	1.8	0

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109	Neural induction. , 2012, , 1-22.		0
110	Polarity and segmentation. , 2012, , 23-48.		0
111	Genesis and Migration. , 2019, , 55-84.		0
112	Diseases and Repair Approaches in Vision. , 2020, , 54-65.		0