

# Bo Chang

## List of Publications by Year in descending order

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98  
papers

7,075  
citations

76326

40  
h-index

71685

76  
g-index

102  
all docs

102  
docs citations

102  
times ranked

7334  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deficiency in <i>Lyst</i> function leads to accumulation of secreted proteases and reduced retinal adhesion. <i>PLoS ONE</i> , 2022, 17, e0254469.	2.5	1
2	A missense mutation in <i>Pitx2</i> leads to early-onset glaucoma via NRF2-YAP1 axis. <i>Cell Death and Disease</i> , 2021, 12, 1017.	6.3	4
3	Chronic <i>Dicer1</i> deficiency promotes atrophic and neovascular outer retinal pathologies in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 2579-2587.	7.1	28
4	Mouse Models of Inherited Retinal Degeneration with Photoreceptor Cell Loss. <i>Cells</i> , 2020, 9, 931.	4.1	56
5	Photoreceptor degeneration in a new <i>Cacna1f</i> mutant mouse model. <i>Experimental Eye Research</i> , 2019, 179, 106-114.	2.6	8
6	ADIPOR1 is essential for vision and its RPE expression is lost in the <i>Mfrprd6</i> mouse. <i>Scientific Reports</i> , 2018, 8, 14339.	3.3	32
7	Spontaneous Posterior Segment Vascular Disease Phenotype of a Mouse Model, <i>rvn3</i> , Is Dependent on the <i>Crb1rd8</i> Allele. , 2018, 59, 5127.		11
8	Restoration of vision after de novo genesis of rod photoreceptors in mammalian retinas. <i>Nature</i> , 2018, 560, 484-488.	27.8	234
9	A missense mutation in <i>Grm6</i> reduces but does not eliminate mGluR6 expression or rod depolarizing bipolar cell function. <i>Journal of Neurophysiology</i> , 2017, 118, 845-854.	1.8	13
10	The Degeneration and Apoptosis Patterns of Cone Photoreceptors in <i>rd11</i> Mice. <i>Journal of Ophthalmology</i> , 2017, 2017, 1-13.	1.3	8
11	Retinal Pigment Epithelium Atrophy 1 ( <i>rpea1</i> ): A New Mouse Model With Retinal Detachment Caused by a Disruption of Protein Kinase C, $\beta$ , 2016, 57, 877.		9
12	Anatomical and Gene Expression Changes in the Retinal Pigmented Epithelium Atrophy 1 ( <i>rpea1</i> ) Mouse: A Potential Model of Serous Retinal Detachment. , 2016, 57, 4641.		3
13	A hypomorphic mutation of the gamma-1 adaptin gene ( <i>Ap1g1</i> ) causes inner ear, retina, thyroid, and testes abnormalities in mice. <i>Mammalian Genome</i> , 2016, 27, 200-212.	2.2	28
14	Mouse Models as Tools to Identify Genetic Pathways for Retinal Degeneration, as Exemplified by Leber's Congenital Amaurosis. <i>Methods in Molecular Biology</i> , 2016, 1438, 417-430.	0.9	4
15	Animal Models of Retinitis Pigmentosa (RP). <i>Essentials in Ophthalmology</i> , 2016, , 101-116.	0.1	4
16	Lysosomal Trafficking Regulator (LYST). <i>Advances in Experimental Medicine and Biology</i> , 2016, 854, 745-750.	1.6	11
17	NHE8 Is Essential for RPE Cell Polarity and Photoreceptor Survival. <i>Scientific Reports</i> , 2015, 5, 9358.	3.3	11
18	A Mutation in <i>Syne2</i> Causes Early Retinal Defects in Photoreceptors, Secondary Neurons, and Müller Glia. , 2015, 56, 3776.		19

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19	Exome sequencing reveals pathogenic mutations in 91 strains of mice with Mendelian disorders. <i>Genome Research</i> , 2015, 25, 948-957.	5.5	54
20	Biology and therapy of inherited retinal degenerative disease: insights from mouse models. <i>DMM Disease Models and Mechanisms</i> , 2015, 8, 109-129.	2.4	207
21	Adiponectin receptor 1 conserves docosahexaenoic acid and promotes photoreceptor cell survival. <i>Nature Communications</i> , 2015, 6, 6228.	12.8	93
22	The Frequency-Response Electroretinogram Distinguishes Cone and Abnormal Rod Function in rd12 Mice. <i>PLoS ONE</i> , 2015, 10, e0117570.	2.5	14
23	Survey of the nob5 mutation in C3H substrains. <i>Molecular Vision</i> , 2015, 21, 1101-5.	1.1	7
24	Characterization of a Spontaneous Retinal Neovascular Mouse Model. <i>PLoS ONE</i> , 2014, 9, e106507.	2.5	32
25	AAV-Mediated Lysophosphatidylcholine Acyltransferase 1 (Lpcat1) Gene Replacement Therapy Rescues Retinal Degeneration in rd11 Mice. , 2014, 55, 1724.		21
26	Spontaneous CNV in a Novel Mutant Mouse Is Associated With Early VEGF-Driven Angiogenesis and Late-Stage Focal Edema, Neural Cell Loss, and Dysfunction. , 2014, 55, 3709.		43
27	Hearing Impairment in Hypothyroid Dwarf Mice Caused by Mutations of the Thyroid Peroxidase Gene. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2014, 15, 45-55.	1.8	13
28	OTX2 loss causes rod differentiation defect in CRX-associated congenital blindness. <i>Journal of Clinical Investigation</i> , 2014, 124, 631-643.	8.2	59
29	Cone Phosphodiesterase-6 Restores Rod Function and Confers Distinct Physiological Properties in the Rod Phosphodiesterase-6-Deficient rd10 Mouse. <i>Journal of Neuroscience</i> , 2013, 33, 11745-11753.	3.6	22
30	Loss-of-Function Mutations in TBC1D20 Cause Cataracts and Male Infertility in blind sterile Mice and Warburg Micro Syndrome in Humans. <i>American Journal of Human Genetics</i> , 2013, 93, 1001-1014.	6.2	119
31	Survey of Common Eye Diseases in Laboratory Mouse Strains. , 2013, 54, 4974.		92
32	Rd9 Is a Naturally Occurring Mouse Model of a Common Form of Retinitis Pigmentosa Caused by Mutations in RPGR-ORF15. <i>PLoS ONE</i> , 2012, 7, e35865.	2.5	69
33	Cataracts and Microphthalmia Caused by a Gja8 Mutation in Extracellular Loop 2. <i>PLoS ONE</i> , 2012, 7, e52894.	2.5	23
34	Mouse Models for Studies of Retinal Degeneration and Diseases. <i>Methods in Molecular Biology</i> , 2012, 935, 27-39.	0.9	41
35	AAV-Mediated Cone Rescue in a Naturally Occurring Mouse Model of CNGA3-Achromatopsia. <i>PLoS ONE</i> , 2012, 7, e35250.	2.5	105
36	Long-term Retinal Function and Structure Rescue Using Capsid Mutant AAV8 Vector in the rd10 Mouse, a Model of Recessive Retinitis Pigmentosa. <i>Molecular Therapy</i> , 2011, 19, 234-242.	8.2	135

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37	Mouse Model Resources for Vision Research. <i>Journal of Ophthalmology</i> , 2011, 2011, 1-12.	1.3	67
38	Gene Therapy Rescues Cone Structure and Function in the 3-Month-Old <i>rd12</i> Mouse: A Model for Midcourse RPE65 Leber Congenital Amaurosis. , 2011, 52, 7.		58
39	A spontaneous mutation in <i>Srebf2</i> leads to cataracts and persistent skin wounds in the lens opacity 13 ( <i>lop13</i> ) mouse. <i>Mammalian Genome</i> , 2011, 22, 661-673.	2.2	12
40	Rod Phosphodiesterase-6 (PDE6) Catalytic Subunits Restore Cone Function in a Mouse Model Lacking Cone PDE6 Catalytic Subunit. <i>Journal of Biological Chemistry</i> , 2011, 286, 33252-33259.	3.4	21
41	Functional analysis of the <i>Hsf4(lop11)</i> allele responsible for cataracts in <i>lop11</i> mice. <i>Molecular Vision</i> , 2011, 17, 3062-71.	1.1	5
42	Genetic Dependence of Central Corneal Thickness among Inbred Strains of Mice. , 2010, 51, 160.		47
43	Loss of lysophosphatidylcholine acyltransferase 1 leads to photoreceptor degeneration in <i>rd11</i> mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 15523-15528.	7.1	55
44	The Mouse Model of Down Syndrome <i>Ts65Dn</i> Presents Visual Deficits as Assessed by Pattern Visual Evoked Potentials. , 2010, 51, 3300.		25
45	Achromatopsia as a Potential Candidate for Gene Therapy. <i>Advances in Experimental Medicine and Biology</i> , 2010, 664, 639-646.	1.6	38
46	A homologous genetic basis of the murine <i>cpfl1</i> mutant and human achromatopsia linked to mutations in the <i>PDE6C</i> gene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 19581-19586.	7.1	178
47	Functional interchangeability of rod and cone transducin $\hat{\pm}$ -subunits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 17681-17686.	7.1	39
48	The podosomal-adaptor protein SH3PXD2B is essential for normal postnatal development. <i>Mammalian Genome</i> , 2009, 20, 462-475.	2.2	42
49	Gene therapy following subretinal AAV5 vector delivery is not affected by a previous intravitreal AAV5 vector administration in the partner eye. <i>Molecular Vision</i> , 2009, 15, 267-75.	1.1	40
50	Allelic variance between <i>Grm6<sup>nob3</sup></i> and <i>Grm6<sup>nob4</sup></i> results in differences in retinal ganglion cell visual responses. <i>Journal of Physiology</i> , 2008, 586, 4409-4424.	2.9	63
51	Iris phenotypes and pigment dispersion caused by genes influencing pigmentation. <i>Pigment Cell and Melanoma Research</i> , 2008, 21, 565-578.	3.3	39
52	Age-related retinal degeneration ( <i>arrd2</i> ) in a novel mouse model due to a nonsense mutation in the <i>Mdm1</i> gene. <i>Human Molecular Genetics</i> , 2008, 17, 3929-3941.	2.9	38
53	Progressive Morphological and Functional Defects in Retinas from $\hat{\pm}1$ Integrin-Null Mice. , 2008, 49, 4647.		14
54	A model for familial exudative vitreoretinopathy caused by <i>LPR5</i> mutations. <i>Human Molecular Genetics</i> , 2008, 17, 1605-1612.	2.9	93

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55	AAV-Mediated Gene Therapy for Retinal Degeneration in the <i>rd10</i> Mouse Containing a Recessive PDE $\beta$ Mutation. , 2008, 49, 4278.		133
56	Expression of VLDLR in the Retina and Evolution of Subretinal Neovascularization in the Knockout Mouse Model's Retinal Angiomatic Proliferation. , 2008, 49, 407.		101
57	Dense Nuclear Cataract Caused by the $\beta$ -Crystallin S11R Point Mutation. , 2008, 49, 304.		18
58	Centrosomal-ciliary gene CEP290/NPHP6 mutations result in blindness with unexpected sparing of photoreceptors and visual brain: implications for therapy of Leber congenital amaurosis. Human Mutation, 2007, 28, 1074-1083.	2.5	148
59	Restoration of cone vision in a mouse model of achromatopsia. Nature Medicine, 2007, 13, 685-687.	30.7	200
60	Mouse Models of RP. , 2007, , 149-161.		5
61	Ultraviolet Light-Induced and Green Light-Induced Transient Pupillary Light Reflex in Mice. Current Eye Research, 2006, 31, 925-933.	1.5	13
62	Premature Truncation of a Novel Protein, RD3, Exhibiting Subnuclear Localization Is Associated with Retinal Degeneration. American Journal of Human Genetics, 2006, 79, 1059-1070.	6.2	112
63	Gene Therapy Restores Vision-Dependent Behavior as Well as Retinal Structure and Function in a Mouse Model of RPE65 Leber Congenital Amaurosis. Molecular Therapy, 2006, 13, 565-572.	8.2	185
64	Mouse models of age-related macular degeneration. Experimental Eye Research, 2006, 82, 741-752.	2.6	97
65	Early transposable element insertion in intron 9 of the Hsf4 gene results in autosomal recessive cataracts in <i>lop11</i> and <i>ldis1</i> mice. Genomics, 2006, 88, 44-51.	2.9	23
66	Arginine 54 and Tyrosine 118 Residues of $\alpha$ -Crystallin Are Crucial for Lens Formation and Transparency. , 2006, 47, 3004.		39
67	Disruption of the Gene Encoding the $\beta$ 1-Subunit of Transducin in the <i>Rd4/+</i> Mouse. , 2006, 47, 1293.		19
68	Study of Rod- and Cone-Driven Oscillatory Potentials in Mice. , 2006, 47, 2732.		77
69	Deficiency of SHP-1 Protein-Tyrosine Phosphatase in <i>Viable Mice</i> Results in Retinal Degeneration. , 2006, 47, 1201.		23
70	Knock-in of $\beta$ 3 connexin prevents severe cataracts caused by an $\beta$ 8 point mutation. Journal of Cell Science, 2006, 119, 2138-2144.	2.0	34
71	Cone Photoreceptor Function Loss-3, a Novel Mouse Model of Achromatopsia Due to a Mutation in <i>Gnat2</i> . , 2006, 47, 5017.		143
72	The <i>nob2</i> mouse, a null mutation in <i>Cacna1f</i> : Anatomical and functional abnormalities in the outer retina and their consequences on ganglion cell visual responses. Visual Neuroscience, 2006, 23, 11-24.	1.0	194

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73	In-frame deletion in a novel centrosomal/ciliary protein CEP290/NPHP6 perturbs its interaction with RPGR and results in early-onset retinal degeneration in the rd16 mouse. <i>Human Molecular Genetics</i> , 2006, 15, 1847-1857.	2.9	353
74	Characterization of Mouse Mutants with Abnormal RPE Cells. , 2006, 572, 95-100.		2
75	Scotopic and Photopic Visual Thresholds and Spatial and Temporal Discrimination Evaluated by Behavior of Mice in a Water Maze. <i>Photochemistry and Photobiology</i> , 2006, 82, 1489.	2.5	34
76	Tool from ancient pharmacopoeia prevents vision loss. <i>Molecular Vision</i> , 2006, 12, 1706-14.	1.1	79
77	Digenic inheritance of deafness caused by mutations in genes encoding cadherin 23 and protocadherin 15 in mice and humans. <i>Human Molecular Genetics</i> , 2005, 14, 103-111.	2.9	122
78	Retinal degeneration 12 (rd12): a new, spontaneously arising mouse model for human Leber congenital amaurosis (LCA). <i>Molecular Vision</i> , 2005, 11, 152-62.	1.1	159
79	A Missense Mutation in the Mouse Col2a1 Gene Causes Spondyloepiphyseal Dysplasia Congenita, Hearing Loss, and Retinoschisis. <i>Journal of Bone and Mineral Research</i> , 2003, 18, 1612-1621.	2.8	61
80	CRB1 is essential for external limiting membrane integrity and photoreceptor morphogenesis in the mammalian retina. <i>Human Molecular Genetics</i> , 2003, 12, 2179-2189.	2.9	329
81	Mouse models of USH1C and DFNB18: phenotypic and molecular analyses of two new spontaneous mutations of the Ush1c gene. <i>Human Molecular Genetics</i> , 2003, 12, 3075-3086.	2.9	138
82	MOUSE MODEL OF SUBRETINAL NEOVASCULARIZATION WITH CHOROIDAL ANASTOMOSIS. <i>Retina</i> , 2003, 23, 518-522.	1.7	138
83	Mfrp, a gene encoding a frizzled related protein, is mutated in the mouse retinal degeneration 6. <i>Human Molecular Genetics</i> , 2002, 11, 1879-1886.	2.9	118
84	A Cja8 (Cx50) point mutation causes an alteration of alpha3 connexin (Cx46) in semi-dominant cataracts of Lop10 mice. <i>Human Molecular Genetics</i> , 2002, 11, 507-513.	2.9	68
85	Fierce: a new mouse deletion of Nr2e1; violent behaviour and ocular abnormalities are background-dependent. <i>Behavioural Brain Research</i> , 2002, 132, 145-158.	2.2	118
86	Mutations in genes encoding melanosomal proteins cause pigmentary glaucoma in DBA/2J mice. <i>Nature Genetics</i> , 2002, 30, 81-85.	21.4	427
87	Genetic modification of glaucoma associated phenotypes between AKXD-28/Ty and DBA/2J mice. <i>BMC Genetics</i> , 2001, 2, 1.	2.7	81
88	Haploinsufficient Bmp4 ocular phenotypes include anterior segment dysgenesis with elevated intraocular pressure. <i>BMC Genetics</i> , 2001, 2, 18.	2.7	132
89	Retina. <i>Research Methods for Mutant Mice Series</i> , 2001, , .	0.1	0
90	Lop12, a Mutation in Mouse Crygd Causing Lens Opacity Similar to Human Coppock Cataract. <i>Genomics</i> , 2000, 63, 314-320.	2.9	57

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91	Interacting loci cause severe iris atrophy and glaucoma in DBA/2J mice. <i>Nature Genetics</i> , 1999, 21, 405-409.	21.4	280
92	Identification and cloning of a truncated isoform of the cardiac sodium-calcium exchanger in the BALB/c mouse heart. <i>Biochemical Genetics</i> , 1998, 36, 119-135.	1.7	7
93	Characterization of the MouseMyoc/TigrGene. <i>Biochemical and Biophysical Research Communications</i> , 1998, 245, 887-893.	2.1	51
94	Characterization of the MouseProx1Gene. <i>Biochemical and Biophysical Research Communications</i> , 1998, 248, 684-689.	2.1	68
95	A New Dominant Retinal Degeneration (Rd4) Associated with a Chromosomal Inversion in the Mouse. <i>Genomics</i> , 1997, 42, 393-396.	2.9	37
96	Chromosomal Localization of a New Mouse Lens Opacity Gene (lop18). <i>Genomics</i> , 1996, 36, 171-173.	2.9	28
97	New Retinal Degenerations in the Mouse. , 1995, , 77-85.		4
98	New Mouse Primary Retinal Degeneration (rd-3). <i>Genomics</i> , 1993, 16, 45-49.	2.9	111