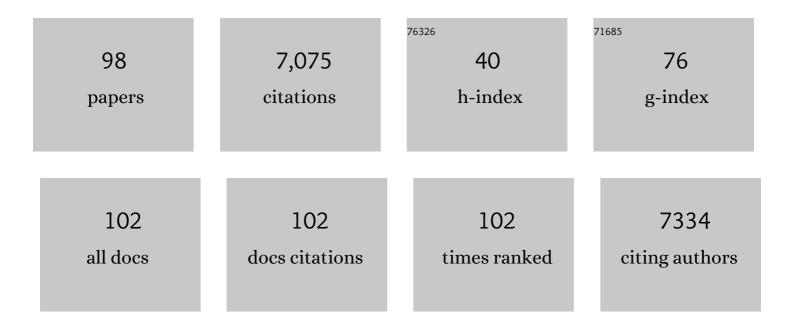
Bo Chang

List of Publications by Year in descending order

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BO CHANC

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Mutations in genes encoding melanosomal proteins cause pigmentary glaucoma in DBA/2J mice. Nature Genetics, 2002, 30, 81-85. | 21.4 | 427 |
| 2 | 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. Human Molecular Genetics, 2006, 15, 1847-1857. | 2.9 | 353 |
| 3 | CRB1 is essential for external limiting membrane integrity and photoreceptor morphogenesis in the mammalian retina. Human Molecular Genetics, 2003, 12, 2179-2189. | 2.9 | 329 |
| 4 | Interacting loci cause severe iris atrophy and glaucoma in DBA/2J mice. Nature Genetics, 1999, 21, 405-409. | 21.4 | 280 |
| 5 | Restoration of vision after de novo genesis of rod photoreceptors in mammalian retinas. Nature, 2018, 560, 484-488. | 27.8 | 234 |
| 6 | Biology and therapy of inherited retinal degenerative disease: insights from mouse models. DMM Disease Models and Mechanisms, 2015, 8, 109-129. | 2.4 | 207 |
| 7 | Restoration of cone vision in a mouse model of achromatopsia. Nature Medicine, 2007, 13, 685-687. | 30.7 | 200 |
| 8 | 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 |
| 9 | 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 |
| 10 | A homologous genetic basis of the murine <i>cpfl1</i> mutant and human achromatopsia linked to mutations in the <i>PDE6C</i> gene. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19581-19586. | 7.1 | 178 |
| 11 | Retinal degeneration 12 (rd12): a new, spontaneously arising mouse model for human Leber congenital amaurosis (LCA). Molecular Vision, 2005, 11, 152-62. | 1.1 | 159 |
| 12 | Centrosomal-ciliary geneCEP290/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 |
| 13 | Cone Photoreceptor Function Loss-3, a Novel Mouse Model of Achromatopsia Due to a Mutation inGnat2. , 2006, 47, 5017. | | 143 |
| 14 | Mouse models of USH1C and DFNB18: phenotypic and molecular analyses of two new spontaneous mutations of the Ush1c gene. Human Molecular Genetics, 2003, 12, 3075-3086. | 2.9 | 138 |
| 15 | MOUSE MODEL OF SUBRETINAL NEOVASCULARIZATION WITH CHOROIDAL ANASTOMOSIS. Retina, 2003, 23, 518-522. | 1.7 | 138 |
| 16 | Long-term Retinal Function and Structure Rescue Using Capsid Mutant AAV8 Vector in the rd10 Mouse, a Model of Recessive Retinitis Pigmentosa. Molecular Therapy, 2011, 19, 234-242. | 8.2 | 135 |
| 17 | AAV-Mediated Gene Therapy for Retinal Degeneration in the <i>rd10</i> Mouse Containing a Recessive PDEβ Mutation. , 2008, 49, 4278. | | 133 |
| 18 | Haploinsufficient Bmp4 ocular phenotypes include anterior segment dysgenesis with elevated intraocular pressure. BMC Genetics, 2001, 2, 18. | 2.7 | 132 |

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|----|--|------|-----------|
| 19 | Digenic inheritance of deafness caused by mutations in genes encoding cadherin 23 and protocadherin 15 in mice and humans. Human Molecular Genetics, 2005, 14, 103-111. | 2.9 | 122 |
| 20 | Loss-of-Function Mutations in TBC1D20 Cause Cataracts and Male Infertility in blind sterile Mice and Warburg Micro Syndrome in Humans. American Journal of Human Genetics, 2013, 93, 1001-1014. | 6.2 | 119 |
| 21 | Mfrp, a gene encoding a frizzled related protein, is mutated in the mouse retinal degeneration 6. Human Molecular Genetics, 2002, 11, 1879-1886. | 2.9 | 118 |
| 22 | Fierce: a new mouse deletion of Nr2e1; violent behaviour and ocular abnormalities are background-dependent. Behavioural Brain Research, 2002, 132, 145-158. | 2.2 | 118 |
| 23 | 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 |
| 24 | New Mouse Primary Retinal Degeneration (rd-3). Genomics, 1993, 16, 45-49. | 2.9 | 111 |
| 25 | AAV-Mediated Cone Rescue in a Naturally Occurring Mouse Model of CNGA3-Achromatopsia. PLoS ONE, 2012, 7, e35250. | 2.5 | 105 |
| 26 | Expression of VLDLR in the Retina and Evolution of Subretinal Neovascularization in the Knockout Mouse Model's Retinal Angiomatous Proliferation. , 2008, 49, 407. | | 101 |
| 27 | Mouse models of age-related macular degeneration. Experimental Eye Research, 2006, 82, 741-752. | 2.6 | 97 |
| 28 | A model for familial exudative vitreoretinopathy caused by LPR5 mutations. Human Molecular Genetics, 2008, 17, 1605-1612. | 2.9 | 93 |
| 29 | Adiponectin receptor 1 conserves docosahexaenoic acid and promotes photoreceptor cell survival. Nature Communications, 2015, 6, 6228. | 12.8 | 93 |
| 30 | Survey of Common Eye Diseases in Laboratory Mouse Strains. , 2013, 54, 4974. | | 92 |
| 31 | Genetic modification of glaucoma associated phenotypes between AKXD-28/Ty and DBA/2J mice. BMC Genetics, 2001, 2, 1. | 2.7 | 81 |
| 32 | Tool from ancient pharmacopoeia prevents vision loss. Molecular Vision, 2006, 12, 1706-14. | 1.1 | 79 |
| 33 | Study of Rod- and Cone-Driven Oscillatory Potentials in Mice. , 2006, 47, 2732. | | 77 |
| 34 | Rd9 Is a Naturally Occurring Mouse Model of a Common Form of Retinitis Pigmentosa Caused by Mutations in RPGR-ORF15. PLoS ONE, 2012, 7, e35865. | 2.5 | 69 |
| 35 | Characterization of the MouseProx1Gene. Biochemical and Biophysical Research Communications, 1998, 248, 684-689. | 2.1 | 68 |
| 36 | A Gja8 (Cx50) point mutation causes an alteration of alpha3 connexin (Cx46) in semi-dominant cataracts of Lop10 mice. Human Molecular Genetics, 2002, 11, 507-513. | 2.9 | 68 |

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| 37 | Mouse Model Resources for Vision Research. Journal of Ophthalmology, 2011, 2011, 1-12. | 1.3 | 67 |
| 38 | Allelic variance between GRM6 mutants, <i>Grm6^{nob3}</i> and <i>Grm6^{nob4}</i> results in differences in retinal ganglion cell visual responses. Journal of Physiology, 2008, 586, 4409-4424. | 2.9 | 63 |
| 39 | A Missense Mutation in the Mouse Col2a1 Gene Causes Spondyloepiphyseal Dysplasia Congenita, Hearing Loss, and Retinoschisis. Journal of Bone and Mineral Research, 2003, 18, 1612-1621. | 2.8 | 61 |
| 40 | OTX2 loss causes rod differentiation defect in CRX-associated congenital blindness. Journal of Clinical Investigation, 2014, 124, 631-643. | 8.2 | 59 |
| 41 | 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 |
| 42 | Lop12, a Mutation in Mouse Crygd Causing Lens Opacity Similar to Human Coppock Cataract. Genomics, 2000, 63, 314-320. | 2.9 | 57 |
| 43 | Mouse Models of Inherited Retinal Degeneration with Photoreceptor Cell Loss. Cells, 2020, 9, 931. | 4.1 | 56 |
| 44 | Loss of lysophosphatidylcholine acyltransferase 1 leads to photoreceptor degeneration in <i>rd11</i> mice. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 15523-15528. | 7.1 | 55 |
| 45 | Exome sequencing reveals pathogenic mutations in 91 strains of mice with Mendelian disorders. Genome Research, 2015, 25, 948-957. | 5.5 | 54 |
| 46 | Characterization of the MouseMyoc/TigrGene. Biochemical and Biophysical Research Communications, 1998, 245, 887-893. | 2.1 | 51 |
| 47 | Genetic Dependence of Central Corneal Thickness among Inbred Strains of Mice. , 2010, 51, 160. | | 47 |
| 48 | Spontaneous CNV in a Novel Mutant Mouse Is Associated With Early VEGF-A–Driven Angiogenesis and Late-Stage Focal Edema, Neural Cell Loss, and Dysfunction. , 2014, 55, 3709. | | 43 |
| 49 | The podosomal-adaptor protein SH3PXD2B is essential for normal postnatal development. Mammalian Genome, 2009, 20, 462-475. | 2.2 | 42 |
| 50 | Mouse Models for Studies of Retinal Degeneration and Diseases. Methods in Molecular Biology, 2012, 935, 27-39. | 0.9 | 41 |
| 51 | Gene therapy following subretinal AAV5 vector delivery is not affected by a previous intravitreal AAV5 vector administration in the partner eye. Molecular Vision, 2009, 15, 267-75. | 1.1 | 40 |
| 52 | Arginine 54 and Tyrosine 118 Residues of αA-Crystallin Are Crucial for Lens Formation and Transparency. , 2006, 47, 3004. | | 39 |
| 53 | Iris phenotypes and pigment dispersion caused by genes influencing pigmentation. Pigment Cell and Melanoma Research, 2008, 21, 565-578. | 3.3 | 39 |
| 54 | Functional interchangeability of rod and cone transducin α-subunits. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 17681-17686. | 7.1 | 39 |

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| 55 | Age-related retinal degeneration (arrd2) in a novel mouse model due to a nonsense mutation in the Mdm1 gene. Human Molecular Genetics, 2008, 17, 3929-3941. | 2.9 | 38 |
| 56 | Achromatopsia as a Potential Candidate for Gene Therapy. Advances in Experimental Medicine and Biology, 2010, 664, 639-646. | 1.6 | 38 |
| 57 | A New Dominant Retinal Degeneration (Rd4) Associated with a Chromosomal Inversion in the Mouse. Genomics, 1997, 42, 393-396. | 2.9 | 37 |
| 58 | Knock-in of α3 connexin prevents severe cataracts caused by an α8 point mutation. Journal of Cell Science, 2006, 119, 2138-2144. | 2.0 | 34 |
| 59 | Scotopic and Photopic Visual Thresholds and Spatial and Temporal Discrimination Evaluated by Behavior of Mice in a Water Mazeâ€. Photochemistry and Photobiology, 2006, 82, 1489. | 2.5 | 34 |
| 60 | Characterization of a Spontaneous Retinal Neovascular Mouse Model. PLoS ONE, 2014, 9, e106507. | 2.5 | 32 |
| 61 | ADIPOR1 is essential for vision and its RPE expression is lost in the Mfrprd6 mouse. Scientific Reports, 2018, 8, 14339. | 3.3 | 32 |
| 62 | Chromosomal Localization of a New Mouse Lens Opacity Gene (lop18). Genomics, 1996, 36, 171-173. | 2.9 | 28 |
| 63 | A hypomorphic mutation of the gamma-1 adaptin gene (Ap1g1) causes inner ear, retina, thyroid, and testes abnormalities in mice. Mammalian Genome, 2016, 27, 200-212. | 2.2 | 28 |
| 64 | Chronic Dicer1 deficiency promotes atrophic and neovascular outer retinal pathologies in mice. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 2579-2587. | 7.1 | 28 |
| 65 | The Mouse Model of Down Syndrome Ts65Dn Presents Visual Deficits as Assessed by Pattern Visual Evoked Potentials. , 2010, 51, 3300. | | 25 |
| 66 | Early transposable element insertion in intron 9 of the Hsf4 gene results in autosomal recessive cataracts in lop11 and ldis1 mice. Genomics, 2006, 88, 44-51. | 2.9 | 23 |
| 67 | Deficiency of SHP-1 Protein-Tyrosine Phosphatase in "Viable Motheaten―Mice Results in Retinal Degeneration. , 2006, 47, 1201. | | 23 |
| 68 | Cataracts and Microphthalmia Caused by a Gja8 Mutation in Extracellular Loop 2. PLoS ONE, 2012, 7, e52894. | 2.5 | 23 |
| 69 | Cone Phosphodiesterase-6Â' Restores Rod Function and Confers Distinct Physiological Properties in the Rod Phosphodiesterase-6Â-Deficient rd10 Mouse. Journal of Neuroscience, 2013, 33, 11745-11753. | 3.6 | 22 |
| 70 | Rod Phosphodiesterase-6 (PDE6) Catalytic Subunits Restore Cone Function in a Mouse Model Lacking Cone PDE6 Catalytic Subunit. Journal of Biological Chemistry, 2011, 286, 33252-33259. | 3.4 | 21 |
| 71 | AAV-Mediated Lysophosphatidylcholine Acyltransferase 1 (Lpcat1) Gene Replacement Therapy Rescues Retinal Degeneration inrd11Mice. , 2014, 55, 1724. | | 21 |
| 72 | Disruption of the Gene Encoding the β1-Subunit of Transducin in theRd4/+ Mouse. , 2006, 47, 1293. | | 19 |

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| 73 | A Mutation in <i>Syne2</i> Causes Early Retinal Defects in Photoreceptors, Secondary Neurons, and M¼ller Glia. , 2015, 56, 3776. | | 19 |
| 74 | Dense Nuclear Cataract Caused by the \hat{I}^3 B-Crystallin S11R Point Mutation. , 2008, 49, 304. | | 18 |
| 75 | Progressive Morphological and Functional Defects in Retinas from $\hat{I}\pm 1$ Integrin-Null Mice. , 2008, 49, 4647. | | 14 |
| 76 | The Frequency-Response Electroretinogram Distinguishes Cone and Abnormal Rod Function in rd12 Mice. PLoS ONE, 2015, 10, e0117570. | 2.5 | 14 |
| 77 | Ultraviolet Light–Induced and Green Light–Induced Transient Pupillary Light Reflex in Mice. Current Eye Research, 2006, 31, 925-933. | 1.5 | 13 |
| 78 | Hearing Impairment in Hypothyroid Dwarf Mice Caused by Mutations of the Thyroid Peroxidase Gene. JARO - Journal of the Association for Research in Otolaryngology, 2014, 15, 45-55. | 1.8 | 13 |
| 79 | A missense mutation in <i>Grm6</i> reduces but does not eliminate mGluR6 expression or rod depolarizing bipolar cell function. Journal of Neurophysiology, 2017, 118, 845-854. | 1.8 | 13 |
| 80 | A spontaneous mutation in Srebf2 leads to cataracts and persistent skin wounds in the lens opacity 13 (lop13) mouse. Mammalian Genome, 2011, 22, 661-673. | 2.2 | 12 |
| 81 | NHE8 Is Essential for RPE Cell Polarity and Photoreceptor Survival. Scientific Reports, 2015, 5, 9358. | 3.3 | 11 |
| 82 | Lysosomal Trafficking Regulator (LYST). Advances in Experimental Medicine and Biology, 2016, 854, 745-750. | 1.6 | 11 |
| 83 | Spontaneous Posterior Segment Vascular Disease Phenotype of a Mouse Model,rnv3, Is Dependent on theCrb1rd8Allele. , 2018, 59, 5127. | | 11 |
| 84 | Retinal Pigment Epithelium Atrophy 1 (rpea1): A New Mouse Model With Retinal Detachment Caused by a Disruption of Protein Kinase C, Î,. , 2016, 57, 877. | | 9 |
| 85 | The Degeneration and Apoptosis Patterns of Cone Photoreceptors in <i> rd11</i> Mice. Journal of Ophthalmology, 2017, 2017, 1-13. | 1.3 | 8 |
| 86 | Photoreceptor degeneration in a new Cacna1f mutant mouse model. Experimental Eye Research, 2019, 179, 106-114. | 2.6 | 8 |
| 87 | Identification and cloning of a truncated isoform of the cardiac sodium-calcium exchanger in the BALB/c mouse heart. Biochemical Genetics, 1998, 36, 119-135. | 1.7 | 7 |
| 88 | Survey of the nob5 mutation in C3H substrains. Molecular Vision, 2015, 21, 1101-5. | 1.1 | 7 |
| 89 | Mouse Models of RP. , 2007, , 149-161. | | 5 |
| 90 | Functional analysis of the Hsf4(lop11) allele responsible for cataracts in lop11 mice. Molecular Vision, 2011, 17, 3062-71. | 1.1 | 5 |

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| 91 | Mouse Models as Tools to Identify Genetic Pathways for Retinal Degeneration, as Exemplified by Leber's Congenital Amaurosis. Methods in Molecular Biology, 2016, 1438, 417-430. | 0.9 | 4 |
| 92 | Animal Models of Retinitis Pigmentosa (RP). Essentials in Ophthalmology, 2016, , 101-116. | 0.1 | 4 |
| 93 | New Retinal Degenerations in the Mouse. , 1995, , 77-85. | | 4 |
| 94 | A missense mutation in Pitx2 leads to early-onset glaucoma via NRF2-YAP1 axis. Cell Death and Disease, 2021, 12, 1017. | 6.3 | 4 |
| 95 | Anatomical and Gene Expression Changes in the Retinal Pigmented Epithelium Atrophy 1 (rpea1) Mouse: A Potential Model of Serous Retinal Detachment. , 2016, 57, 4641. | | 3 |
| 96 | Characterization of Mouse Mutants with Abnormal RPE Cells. , 2006, 572, 95-100. | | 2 |
| 97 | Deficiency in Lyst function leads to accumulation of secreted proteases and reduced retinal adhesion. PLoS ONE, 2022, 17, e0254469. | 2.5 | 1 |
| 98 | Retina. Research Methods for Mutant Mice Series, 2001, , . | 0.1 | 0 |