

BÄrbel Rohrer

List of Publications by Year in descending order

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110
papers

12,037
citations

126907

33
h-index

49909

87
g-index

114
all docs

114
docs citations

114
times ranked

23407
citing authors

#	ARTICLE	IF	CITATIONS
1	Elastin turnover in ocular diseases: A special focus on age-related macular degeneration. <i>Experimental Eye Research</i> , 2022, 222, 109164.	2.6	5
2	Mitochondrial C3a Receptor Activation in Oxidatively Stressed Epithelial Cells Reduces Mitochondrial Respiration and Metabolism. <i>Frontiers in Immunology</i> , 2021, 12, 628062.	4.8	19
3	Subretinal Rather Than Intravitreal Adeno-Associated Virus-Mediated Delivery of a Complement Alternative Pathway Inhibitor Is Effective in a Mouse Model of RPE Damage. , 2021, 62, 11.		8
4	J or H mtDNA haplogroups in retinal pigment epithelial cells: Effects on cell physiology, cargo in extracellular vesicles, and differential uptake of such vesicles by naïve recipient cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2021, 1865, 129798.	2.4	6
5	Conditional Loss of the Exocyst Component Exoc5 in Retinal Pigment Epithelium (RPE) Results in RPE Dysfunction, Photoreceptor Cell Degeneration, and Decreased Visual Function. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5083.	4.1	2
6	Natural immunoglobulin M-based delivery of a complement alternative pathway inhibitor in mouse models of retinal degeneration. <i>Experimental Eye Research</i> , 2021, 207, 108583.	2.6	4
7	Large-scale phenotypic drug screen identifies neuroprotectants in zebrafish and mouse models of retinitis pigmentosa. <i>ELife</i> , 2021, 10, .	6.0	15
8	Newly Identified Chemicals Preserve Mitochondrial Capacity and Decelerate Loss of Photoreceptor Cells in Murine Retinal Degeneration Models. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2021, 37, 367-378.	1.4	3
9	Peptide-based immunotherapy against oxidized elastin ameliorates pathology in mouse model of smoke-induced ocular injury. <i>Experimental Eye Research</i> , 2021, 212, 108755.	2.6	4
10	Isolation of Mitochondria from Retinal Pigment Epithelial Cell Cultures and an Application of High-Resolution Respirometric Assay (XF96 Seahorse Assay). <i>Methods in Molecular Biology</i> , 2021, 2277, 423-431.	0.9	0
11	SAHA is neuroprotective in in vitro and in situ models of retinitis pigmentosa. <i>Molecular Vision</i> , 2021, 27, 151-160.	1.1	1
12	Mechanisms of extracellular vesicle uptake in stressed retinal pigment epithelial cell monolayers. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020, 1866, 165608.	3.8	27
13	Complement-Mediated Microglial Phagocytosis and Pathological Changes in the Development and Degeneration of the Visual System. <i>Frontiers in Immunology</i> , 2020, 11, 566892.	4.8	19
14	Systemic Inflammation by Collagen-Induced Arthritis Affects the Progression of Age-Related Macular Degeneration Differently in Two Mouse Models of the Disease. , 2020, 61, 11.		10
15	Immunization Against Oxidized Elastin Exacerbates Structural and Functional Damage in Mouse Model of Smoke-Induced Ocular Injury. , 2020, 61, 45.		11
16	Encapsulated Cell Technology for the Delivery of Biologics to the Mouse Eye. <i>Journal of Visualized Experiments</i> , 2020, , .	0.3	6
17	Sex Related Differences in Retinal Pigment Epithelium and Retinal Disease. , 2020, , 185-201.		1
18	The use of Matrigel combined with encapsulated cell technology to deliver a complement inhibitor in a mouse model of choroidal neovascularization. <i>Molecular Vision</i> , 2020, 26, 370-377.	1.1	2

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19	Increased Nonexudative Age-Related Macular Degeneration Diagnosis Among Medicare Beneficiaries With Rheumatoid Arthritis. , 2019, 60, 3520.		13
20	An improved method for isolation of mitochondria from cell lines that enables reconstitution of calcium-dependent processes. Analytical Biochemistry, 2019, 577, 52-58.	2.4	7
21	Inhibition of the alternative complement pathway accelerates repair processes in the murine model of choroidal neovascularization. Molecular Immunology, 2019, 108, 8-12.	2.2	17
22	Association of age-related macular degeneration with complement activation products, smoking, and single nucleotide polymorphisms in South Carolinians of European and African descent. Molecular Vision, 2019, 25, 79-92.	1.1	14
23	Anaphylatoxin Signaling in Retinal Pigment and Choroidal Endothelial Cells: Characteristics and Relevance to Age-Related Macular Degeneration. Advances in Experimental Medicine and Biology, 2018, 1074, 45-51.	1.6	8
24	Extracellular vesicle-mediated long-range communication in stressed retinal pigment epithelial cell monolayers. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2018, 1864, 2610-2622.	3.8	61
25	Delivery of CR2-fH Using AAV Vector Therapy as Treatment Strategy in the Mouse Model of Choroidal Neovascularization. Molecular Therapy - Methods and Clinical Development, 2018, 9, 1-11.	4.1	29
26	Recombinant Manganese Peroxidase Reduces A2E Burden in Age-Related and Stargardt's Macular Degeneration Models. Rejuvenation Research, 2018, 21, 560-571.	1.8	13
27	Encapsulated Cell Technology-Based Delivery of a Complement Inhibitor Reduces Choroidal Neovascularization in a Mouse Model. Translational Vision Science and Technology, 2018, 7, 3.	2.2	11
28	Targeting the tight junction protein, zonula occludens-1, with the connexin43 mimetic peptide, $\hat{\pm}$ CT1, reduces VEGF-dependent RPE pathophysiology. Journal of Molecular Medicine, 2017, 95, 535-552.	3.9	46
29	Bystander effects elicited by single-cell photo-oxidative blue-light stimulation in retinal pigment epithelium cell networks. Cell Death Discovery, 2017, 3, 16071.	4.7	26
30	New Insights on Complement Inhibitor CD59 in Mouse Laser-Induced Choroidal Neovascularization: Mislocalization After Injury and Targeted Delivery for Protein Replacement. Journal of Ocular Pharmacology and Therapeutics, 2017, 33, 400-411.	1.4	7
31	Alginate Microcapsule Technology and Impacts on Cell Therapy Development. Microscopy and Microanalysis, 2017, 23, 1214-1215.	0.4	0
32	The exocyst is required for photoreceptor ciliogenesis and retinal development. Journal of Biological Chemistry, 2017, 292, 14814-14826.	3.4	40
33	The Retinol Binding Protein Receptor 2 (Rbpr2) is required for Photoreceptor Outer Segment Morphogenesis and Visual Function in Zebrafish. Scientific Reports, 2017, 7, 16207.	3.3	27
34	Mechanisms of bystander effects in retinal pigment epithelium cell networks. Cell Death and Disease, 2017, 8, e3061-e3061.	6.3	4
35	Anaphylatoxins Activate Ca ²⁺ , Akt/PI3-Kinase, and FOXO1/FoxP3 in the Retinal Pigment Epithelium. Frontiers in Immunology, 2017, 8, 703.	4.8	25
36	Th17 cells are refractory to senescence and retain robust antitumor activity after long-term ex vivo expansion. JCI Insight, 2017, 2, e90772.	5.0	54

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37	Calpain inhibition as a possible new therapeutic target in multiple sclerosis. <i>AIMS Molecular Science</i> , 2017, 4, 446-462.	0.5	3
38	A Targeted Inhibitor of the Alternative Complement Pathway Accelerates Recovery From Smoke-Induced Ocular Injury. , 2016, 57, 1728.		24
39	Calpain inhibition reduces structural and functional impairment of retinal ganglion cells in experimental optic neuritis. <i>Journal of Neurochemistry</i> , 2016, 139, 270-284.	3.9	15
40	Connecting the innate and adaptive immune responses in mouse choroidal neovascularization via the anaphylatoxin C5a and $\hat{I}3\hat{T}$ -cells. <i>Scientific Reports</i> , 2016, 6, 23794.	3.3	62
41	New therapeutic and diagnostic opportunities for injured tissue-specific targeting of complement inhibitors and imaging modalities. <i>Seminars in Immunology</i> , 2016, 28, 260-267.	5.6	20
42	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
43	Interrelation Between Oxidative Stress and Complement Activation in Models of Age-Related Macular Degeneration. <i>Advances in Experimental Medicine and Biology</i> , 2016, 854, 87-93.	1.6	49
44	Reduced Metabolic Capacity in Aged Primary Retinal Pigment Epithelium (RPE) is Correlated with Increased Susceptibility to Oxidative Stress. <i>Advances in Experimental Medicine and Biology</i> , 2016, 854, 793-798.	1.6	50
45	Small Molecules that Protect Mitochondrial Function from Metabolic Stress Decelerate Loss of Photoreceptor Cells in Murine Retinal Degeneration Models. <i>Advances in Experimental Medicine and Biology</i> , 2016, 854, 449-454.	1.6	4
46	Retinal Pre-Conditioning by CD59a Knockout Protects against Light-Induced Photoreceptor Degeneration. <i>PLoS ONE</i> , 2016, 11, e0166348.	2.5	4
47	Local Production of the Alternative Pathway Component Factor B Is Sufficient to Promote Laser-Induced Choroidal Neovascularization. , 2015, 56, 1850.		33
48	Activation of endogenously expressed ion channels by active complement in the retinal pigment epithelium. <i>Pflugers Archiv European Journal of Physiology</i> , 2015, 467, 2179-2191.	2.8	14
49	Quantitative analysis of mitochondrial morphology and membrane potential in living cells using high-content imaging, machine learning, and morphological binning. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 348-360.	4.1	120
50	The Complement Regulatory Protein CD59: Insights into Attenuation of Choroidal Neovascularization. <i>Advances in Experimental Medicine and Biology</i> , 2014, 801, 435-440.	1.6	1
51	A Mechanistic Review of Cigarette Smoke and Age-Related Macular Degeneration. <i>Advances in Experimental Medicine and Biology</i> , 2014, 801, 301-307.	1.6	55
52	A comparative analysis of C57BL/6J and 6N substrains; chemokine/cytokine expression and susceptibility to laser-induced choroidal neovascularization. <i>Experimental Eye Research</i> , 2014, 129, 18-23.	2.6	18
53	Smoke Exposure Causes Endoplasmic Reticulum Stress and Lipid Accumulation in Retinal Pigment Epithelium through Oxidative Stress and Complement Activation. <i>Journal of Biological Chemistry</i> , 2014, 289, 14534-14546.	3.4	126
54	Prolonged Src Kinase Activation, a Mechanism to Turn Transient, Sublytic Complement Activation into a Sustained Pathological Condition in Retinal Pigment Epithelium Cells. <i>Advances in Experimental Medicine and Biology</i> , 2014, 801, 221-227.	1.6	5

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55	Early alterations in mitochondrial reserve capacity; a means to predict subsequent photoreceptor cell death. <i>Journal of Bioenergetics and Biomembranes</i> , 2013, 45, 101-109.	2.3	38
56	Noninvasive Detection of Complement Activation Through Radiologic Imaging. <i>Advances in Experimental Medicine and Biology</i> , 2013, 735, 271-282.	1.6	8
57	The Role of the Immune Response in Age-Related Macular Degeneration. <i>International Journal of Inflammation</i> , 2013, 2013, 1-10.	1.5	82
58	Oxidative Stress Sensitizes Retinal Pigmented Epithelial (RPE) Cells to Complement-mediated Injury in a Natural Antibody-, Lectin Pathway-, and Phospholipid Epitope-dependent Manner. <i>Journal of Biological Chemistry</i> , 2013, 288, 12753-12765.	3.4	55
59	CR2-Mediated Targeting of Complement Inhibitors: Bench-to-Bedside Using a Novel Strategy for Site-Specific Complement Modulation. <i>Advances in Experimental Medicine and Biology</i> , 2013, 735, 137-154.	1.6	49
60	Detection of complement activation using monoclonal antibodies against C3d. <i>Journal of Clinical Investigation</i> , 2013, 123, 2218-2230.	8.2	78
61	Alternative Complement Pathway Deficiency Ameliorates Chronic Smoke-Induced Functional and Morphological Ocular Injury. <i>PLoS ONE</i> , 2013, 8, e67894.	2.5	49
62	Explant cultures of Rpe65 ^{-/-} mouse retina: a model to investigate cone opsin trafficking. <i>Molecular Vision</i> , 2013, 19, 1149-57.	1.1	3
63	Matrix Metalloproteinase Activity Creates Pro-Angiogenic Environment in Primary Human Retinal Pigment Epithelial Cells Exposed to Complement. , 2012, 53, 1953.		50
64	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	9.1	3,122
65	Systemic Human CR2-Targeted Complement Alternative Pathway Inhibitor Ameliorates Mouse Laser-Induced Choroidal Neovascularization. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2012, 28, 402-409.	1.4	41
66	Revealing functionally coherent subsets using a spectral clustering and an information integration approach. <i>BMC Systems Biology</i> , 2012, 6, S7.	3.0	2
67	Sublytic Membrane-Attack-Complex Activation and VEGF Secretion in Retinal Pigment Epithelial Cells. <i>Advances in Experimental Medicine and Biology</i> , 2012, 723, 23-30.	1.6	13
68	Complement Pathways and Oxidative Stress in Models of Age-Related Macular Degeneration. , 2012, , 47-63.		2
69	Sublytic Membrane-Attack-Complex (MAC) Activation Alters Regulated Rather than Constitutive Vascular Endothelial Growth Factor (VEGF) Secretion in Retinal Pigment Epithelium Monolayers. <i>Journal of Biological Chemistry</i> , 2011, 286, 23717-23724.	3.4	62
70	Differential Effects of Rapamycin on Rods and Cones During Light-Induced Stress in Albino Mice. , 2011, 52, 2967.		43
71	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
72	The alternative pathway is required, but not alone sufficient, for retinal pathology in mouse laser-induced choroidal neovascularization. <i>Molecular Immunology</i> , 2011, 48, e1-e8.	2.2	57

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73	Assessing the functional coherence of gene sets with metrics based on the Gene Ontology graph. <i>Bioinformatics</i> , 2010, 26, i79-i87.	4.1	22
74	Deletion of GRK1 Causes Retina Degeneration through a Transducin-Independent Mechanism. <i>Journal of Neuroscience</i> , 2010, 30, 2496-2503.	3.6	22
75	A Targeted Inhibitor of the Complement Alternative Pathway Reduces RPE Injury and Angiogenesis in Models of Age-Related Macular Degeneration. <i>Advances in Experimental Medicine and Biology</i> , 2010, 703, 137-149.	1.6	27
76	A Nonparametric Approach to Detect Nonlinear Correlation in Gene Expression. <i>Journal of Computational and Graphical Statistics</i> , 2010, 19, 552-568.	1.7	19
77	Candidate genes for chromosomes 6 and 10 quantitative trait loci for age-related retinal degeneration in mice. <i>Molecular Vision</i> , 2010, 16, 1004-18.	1.1	2
78	Photoreceptor structure and function is maintained in organotypic cultures of mouse retinas. <i>Molecular Vision</i> , 2010, 16, 1178-85.	1.1	14
79	Cone Outer Segment Morphology and Cone Function in the Rpe65 ^{-/-} /Nrl ^{-/-} Mouse Retina Are Amenable to Retinoid Replacement. , 2009, 50, 4858.		26
80	Oxidative Stress Renders Retinal Pigment Epithelial Cells Susceptible to Complement-mediated Injury. <i>Journal of Biological Chemistry</i> , 2009, 284, 16939-16947.	3.4	157
81	A Targeted Inhibitor of the Alternative Complement Pathway Reduces Angiogenesis in a Mouse Model of Age-Related Macular Degeneration. , 2009, 50, 3056.		147
82	Trafficking of Membrane-Associated Proteins to Cone Photoreceptor Outer Segments Requires the Chromophore 11-cis-Retinal. <i>Journal of Neuroscience</i> , 2008, 28, 4008-4014.	3.6	97
83	Rpe65 ^{-/-} and Lrat ^{-/-} Mice: Comparable Models of Leber Congenital Amaurosis. , 2008, 49, 2384.		86
84	Identification of candidate genes for human retinal degeneration loci using differentially expressed genes from mouse photoreceptor dystrophy models. <i>Molecular Vision</i> , 2008, 14, 1639-49.	1.1	14
85	Apoptosis and Autophagy in Photoreceptors Exposed to Oxidative Stress. <i>Autophagy</i> , 2007, 3, 433-441.	9.1	156
86	Autophagy is One of the Multiple Mechanisms Active in Photoreceptor Degeneration. <i>Autophagy</i> , 2007, 3, 65-66.	9.1	35
87	Eliminating Complement Factor D Reduces Photoreceptor Susceptibility to Light-Induced Damage. , 2007, 48, 5282.		84
88	Classical complement activation and acquired immune response pathways are not essential for retinal degeneration in the rd1 mouse. <i>Experimental Eye Research</i> , 2007, 84, 82-91.	2.6	21
89	Sustained Elevation of Intracellular cGMP Causes Oxidative Stress Triggering Calpain-Mediated Apoptosis in Photoreceptor Degeneration. <i>Current Eye Research</i> , 2007, 32, 259-269.	1.5	60
90	Paradoxical Role of BDNF: BDNF ^{-/-} Retinas Are Protected against Light Damage-Mediated Stress. , 2007, 48, 2877.		25

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91	Multiple, parallel cellular suicide mechanisms participate in photoreceptor cell death. <i>Experimental Eye Research</i> , 2006, 83, 380-389.	2.6	154
92	9-cis Retinal Increased in Retina of RPE65 Knockout Mice with Decrease in Coat Pigmentation. <i>Photochemistry and Photobiology</i> , 2006, 82, 1461-1467.	2.5	6
93	Long-term ERG analysis in the partially light-damaged mouse retina reveals regressive and compensatory changes. <i>Visual Neuroscience</i> , 2006, 23, 91-97.	1.0	24
94	Rod and Cone Pigment Regeneration in RPE65 ^{-/-} Mice. , 2006, 572, 101-107.		5
95	9-cis Retinal Increased in Retina of RPE65 Knockout Mice with Decrease in Coat Pigmentation. <i>Photochemistry and Photobiology</i> , 2006, 82, 1461.	2.5	9
96	Downregulation of Cone-Specific Gene Expression and Degeneration of Cone Photoreceptors in the Rpe65 ^{-/-} Mouse at Early Ages. , 2005, 46, 1473.		193
97	Cone Opsin Mislocalization in Rpe65 ^{-/-} Mice: A Defect That Can Be Corrected by 11-cis Retinal. , 2005, 46, 3876.		128
98	Calcium-induced Calpain Mediates Apoptosis via Caspase-3 in a Mouse Photoreceptor Cell Line. <i>Journal of Biological Chemistry</i> , 2004, 279, 35564-35572.	3.4	138
99	Multidestructive Pathways Triggered in Photoreceptor Cell Death of the RD Mouse as Determined through Gene Expression Profiling. <i>Journal of Biological Chemistry</i> , 2004, 279, 41903-41910.	3.4	70
100	Functionally intact glutamate-mediated signaling in bipolar cells of the TRKB knockout mouse retina. <i>Visual Neuroscience</i> , 2004, 21, 703-713.	1.0	18
101	Isorhodopsin rather than rhodopsin mediates rod function in RPE65 knock-out mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 13662-13667.	7.1	123
102	Structure-function analysis of rods and cones in juvenile, adult, and aged C57BL/6 and Balb/c mice. <i>Visual Neuroscience</i> , 2003, 20, 211-220.	1.0	141
103	Correlation of Regenerable Opsin with Rod ERG Signal in Rpe65 ^{-/-} Mice during Development and Aging. , 2003, 44, 310.		62
104	Does Constitutive Phosphorylation Protect Against Photoreceptor Degeneration in Rpe65 ^{-/-} Mice?. <i>Advances in Experimental Medicine and Biology</i> , 2003, 533, 221-227.	1.6	3
105	Retarded outer segment development in TrkB knockout mouse retina organ culture. <i>Molecular Vision</i> , 2003, 9, 18-23.	1.1	18
106	11-cis-Retinal Reduces Constitutive Opsin Phosphorylation and Improves Quantum Catch in Retinoid-deficient Mouse Rod Photoreceptors. <i>Journal of Biological Chemistry</i> , 2002, 277, 40491-40498.	3.4	75
107	Neurotrophin Receptor TrkB Activation Is Not Required for the Postnatal Survival of Retinal Ganglion Cells in Vivo. <i>Experimental Neurology</i> , 2001, 172, 81-91.	4.1	49
108	Gene dosage effect of the TrkB receptor on rod physiology and biochemistry in juvenile mouse retina. <i>Molecular Vision</i> , 2001, 7, 288-96.	1.1	12

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109	Role of Neurotrophin Receptor TrkB in the Maturation of Rod Photoreceptors and Establishment of Synaptic Transmission to the Inner Retina. <i>Journal of Neuroscience</i> , 1999, 19, 8919-8930.	3.6	131
110	Dabigatran and Wet AMD, Results From Retinal Pigment Epithelial Cell Monolayers, the Mouse Model of Choroidal Neovascularization, and Patients From the Medicare Data Base. <i>Frontiers in Immunology</i> , 0, 13, .	4.8	2