Thomas Langmann

List of Publications by Year
in descending order

82 papers	5,826 citations	101543 36 h-index	82547 72 g-index
87 all docs	87 docs citations	87 times ranked	8739 citing authors

#	Article	IF	Citations
1	A large genome-wide association study of age-related macular degeneration highlights contributions of rare and common variants. Nature Genetics, 2016, 48, 134-143.	21.4	1,167
2	Microglia activation in retinal degeneration. Journal of Leukocyte Biology, 2007, 81, 1345-1351.	3.3	436
3	Retinal microglia: Just bystander or target for therapy?. Progress in Retinal and Eye Research, 2015, 45, 30-57.	15.5	433
4	Glioma-Associated Microglia/Macrophages Display an Expression Profile Different from M1 and M2 Polarization and Highly Express Gpnmb and Spp1. PLoS ONE, 2015, 10, e0116644.	2.5	317
5	Microglia in Retinal Degeneration. Frontiers in Immunology, 2019, 10, 1975.	4.8	224
6	CRX ChIP-seq reveals the <i>cis</i>-regulatory architecture of mouse photoreceptors. Genome Research, 2010, 20, 1512-1525.	5.5	183
7	Microglia in the healthy and degenerating retina: Insights from novel mouse models. Immunobiology, 2010, 215, 685-691.	1.9	179
8	Translocator protein (18ÂkDa) (TSPO) is expressed in reactive retinal microglia and modulates microglial inflammation and phagocytosis. Journal of Neuroinflammation, 2014, 11, 3.	7.2	177
9	Luteolin triggers global changes in the microglial transcriptome leading to a unique anti-inflammatory and neuroprotective phenotype. Journal of Neuroinflammation, 2010, 7, 3.	7.2	139
10	Microglia and Inflammatory Responses in Diabetic Retinopathy. Frontiers in Immunology, 2020, 11, 564077.	4.8	129
11	VEGFR1 signaling in retinal angiogenesis and microinflammation. Progress in Retinal and Eye Research, 2021, 84, 100954.	15.5	123
12	Minocycline counter-regulates pro-inflammatory microglia responses in the retina and protects from degeneration. Journal of Neuroinflammation, 2015, 12, 209.	7.2	120
13	Curcumin is a potent modulator of microglial gene expression and migration. Journal of Neuroinflammation, 2011, 8, 125.	7.2	107
14	Modulation of three key innate immune pathways for the most common retinal degenerative diseases. EMBO Molecular Medicine, 2018, 10, .	6.9	102
15	Targeting translocator protein (18ÂkDa) (TSPO) dampens pro-inflammatory microglia reactivity in the retina and protects from degeneration. Journal of Neuroinflammation, 2015, 12, 201.	7.2	93
16	Age-related macular degeneration associated polymorphism rs10490924 in ARMS2 results in deficiency of a complement activator. Journal of Neuroinflammation, 2017, 14, 4.	7.2	80
17	Nonsense Mutations in FAM161A Cause RP28-Associated Recessive Retinitis Pigmentosa. American Journal of Human Genetics, 2010, 87, 376-381.	6.2	76
18	Docosahexaenoic acid attenuates microglial activation and delays early retinal degeneration. Journal of Neurochemistry, 2009, 110, 1863-1875.	3.9	75

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19	Interferonâ€beta signaling in retinal mononuclear phagocytes attenuates pathological neovascularization. EMBO Molecular Medicine, 2016, 8, 670-678.	6.9	68
20	Local complement activation in aqueous humor in patients with age-related macular degeneration. Eye, 2017, 31, 810-813.	2.1	68
21	Loss of IL-10 Promotes Differentiation of Microglia to a M1 Phenotype. Frontiers in Cellular Neuroscience, 2019, 13, 430.	3.7	67
22	The Novel Activated Microglia/Macrophage WAP Domain Protein, AMWAP, Acts as a Counter-Regulator of Proinflammatory Response. Journal of Immunology, 2010, 185, 3379-3390.	0.8	64
23	Polysialic acid blocks mononuclear phagocyte reactivity, inhibits complement activation, and protects from vascular damage in the retina. EMBO Molecular Medicine, 2017, 9, 154-166.	6.9	63
24	Progressive Retinal Degeneration and Glial Activation in the CLN6nclf Mouse Model of Neuronal Ceroid Lipofuscinosis: A Beneficial Effect of DHA and Curcumin Supplementation. PLoS ONE, 2013, 8, e75963.	2.5	60
25	Disruption of the retinitis pigmentosa 28 gene Fam161a in mice affects photoreceptor ciliary structure and leads to progressive retinal degeneration. Human Molecular Genetics, 2014, 23, 5197-5210.	2.9	59
26	Neuroprotective Effects of FGF2 and Minocycline in Two Animal Models of Inherited Retinal Degeneration. , 2018, 59, 4392.		58
27	Regulated efflux of photoreceptor outer segment-derived cholesterol by human RPE cells. Experimental Eye Research, 2017, 165, 65-77.	2.6	57
28	Genome-Wide Expression Profiling of the Retinoschisin-Deficient Retina in Early Postnatal Mouse Development. , 2007, 48, 891.		53
29	Comprehensive analysis of mouse retinal mononuclear phagocytes. Nature Protocols, 2017, 12, 1136-1150.	12.0	53
30	Immune cells perturb axons and impair neuronal survival in a mouse model of infantile neuronal ceroid lipofuscinosis. Brain, 2013, 136, 1083-1101.	7.6	51
31	The TSPO-NOX1 axis controls phagocyte-triggered pathological angiogenesis in the eye. Nature Communications, 2020, 11, 2709.	12.8	51
32	The retinitis pigmentosa 28 protein FAM161A is a novel ciliary protein involved in intermolecular protein interaction and microtubule association. Human Molecular Genetics, 2012, 21, 4573-4586.	2.9	50
33	Activated microglia/macrophage whey acidic protein (AMWAP) inhibits NFÎºB signaling and induces a neuroprotective phenotype in microglia. Journal of Neuroinflammation, 2015, 12, 77.	7.2	47
34	Mapping the genomic landscape of inherited retinal disease genes prioritizes genes prone to coding and noncoding copy-number variations. Genetics in Medicine, 2018, 20, 202-213.	2.4	47
35	Blockade of microglial adenosine A2A receptor impacts inflammatory mechanisms, reduces ARPE-19 cell dysfunction and prevents photoreceptor loss in vitro. Scientific Reports, 2018, 8, 2272.	3.3	44
36	Activated microglia trigger inflammasome activation and lysosomal destabilization in human RPE cells. Biochemical and Biophysical Research Communications, 2017, 484, 681-686.	2.1	40

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37	Isolated and Syndromic Retinal Dystrophy Caused by Biallelic Mutations in RCBTB1 , a Gene Implicated in Ubiquitination. American Journal of Human Genetics, 2016, 99, 470-480.	6.2	39
38	Chondroitin sulfate disaccharide stimulates microglia to adopt a novel regulatory phenotype. Journal of Leukocyte Biology, 2008, 84, 736-740.	3.3	38
39	Early-onset autosomal recessive cerebellar ataxia associated with retinal dystrophy: new human hotfoot phenotype caused by homozygous GRID2 deletion. Genetics in Medicine, 2015, 17, 291-299.	2.4	37
40	Co-inhibition of PGF and VEGF blocks their expression in mononuclear phagocytes and limits neovascularization and leakage in the murine retina. Journal of Neuroinflammation, 2019, 16, 26.	7.2	36
41	Microglia Activation and Immunomodulatory Therapies for Retinal Degenerations. Frontiers in Cellular Neuroscience, 2018, 12, 176.	3.7	35
42	The role of lymphocytes and phagocytes in age-related macular degeneration (AMD). Cellular and Molecular Life Sciences, 2020, 77, 781-788.	5.4	34
43	Effect of hyaluronic acid-binding to lipoplexes on intravitreal drug delivery for retinal gene therapy. European Journal of Pharmaceutical Sciences, 2017, 103, 27-35.	4.0	31
44	Microglia in the Aging Retina. Advances in Experimental Medicine and Biology, 2014, 801, 207-212.	1.6	27
45	Association of Hyperreflective Foci Present in Early Forms of Age-Related Macular Degeneration With Known Age-Related Macular Degeneration Risk Polymorphisms. , 2016, 57, 4315.		23
46	A mega-analysis of expression quantitative trait loci in retinal tissue. PLoS Genetics, 2020, 16, e1008934.	3.5	22
47	Sterile Alpha Motif Containing 7 (Samd7) Is a Novel Crx-Regulated Transcriptional Repressor in the Retina. PLoS ONE, 2013, 8, e60633.	2.5	21
48	Indole-3-carbinol regulates microglia homeostasis and protects the retina from degeneration. Journal of Neuroinflammation, 2020, 17, 327.	7.2	21
49	Norrin mediates angiogenic properties via the induction of insulin-like growth factor-1. Experimental Eye Research, 2016, 145, 317-326.	2.6	18
50	Resveratrol induces dynamic changes to the microglia transcriptome, inhibiting inflammatory pathways and protecting against microglia-mediated photoreceptor apoptosis. Biochemical and Biophysical Research Communications, 2018, 501, 239-245.	2.1	18
51	Immunomodulation with minocycline rescues retinal degeneration in juvenile Neuronal Ceroid Lipofuscinosis (jNCL) mice highly susceptible to light damage. DMM Disease Models and Mechanisms, 2018, 11, .	2.4	18
52	Inflammation in Viral Vector-Mediated Ocular Gene Therapy: A Review and Report From a Workshop Hosted by the Foundation Fighting Blindness, 9/2020. Translational Vision Science and Technology, 2021, 10, 3.	2.2	18
53	Autosomal recessive retinitis pigmentosa with homozygous rhodopsin mutation E150K and non-coding cis-regulatory variants in CRX-binding regions of SAMD7. Scientific Reports, 2016, 6, 21307.	3.3	16
54	CRX controls retinal expression of the X-linked juvenile retinoschisis (RS1) gene. Nucleic Acids Research, 2008, 36, 6523-6534.	14.5	13

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55	Induction of Early Growth Response-1 Mediates Microglia Activation In Vitro But is Dispensable In Vivo. NeuroMolecular Medicine, 2009, 11, 87-96.	3.4	13
56	Acid sphingomyelinase (aSMase) deficiency leads to abnormal microglia behavior and disturbed retinal function. Biochemical and Biophysical Research Communications, 2015, 464, 434-440.	2.1	13
57	Transcriptional regulation of Translocator protein (18â€‰kDa) (TSPO) in microglia requires Pu.1, Ap1 and Sp factors. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2018, 1861, 1119-1133.	1.9	13
58	Systemic knockout of Tspo in mice does not affect retinal morphology, function and susceptibility to degeneration. Experimental Eye Research, 2019, 188, 107816.	2.6	12
59	Antiâ€•VEGF â€A/ ANG 2 combotherapy limits pathological angiogenesis in the eye: a replication study. EMBO Molecular Medicine, 2019, 11, .	6.9	12
60	Microglial Activation and Transcriptomic Changes in the Blue Light-Exposed Mouse Retina. Advances in Experimental Medicine and Biology, 2012, 723, 619-632.	1.6	11
61	Crocin, a plant-derived carotenoid, modulates microglial reactivity. Biochemistry and Biophysics Reports, 2017, 12, 245-250.	1.3	11
62	The Phenotype of Monocytes in Anterior Uveitis Depends on the HLA-B27 Status. Frontiers in Immunology, 2018, 9, 1773.	4.8	10
63	Major Predictive Factors for Progression of Early to Late Age-Related Macular Degeneration. Ophthalmologica, 2020, 243, 444-452.	1.9	10
64	Phenotype of Innate Immune Cells in Uveitis Associated with Axial Spondyloarthritis- and Juvenile Idiopathic Arthritis-associated Uveitis. Ocular Immunology and Inflammation, 2020, , 1-10.	1.8	10
65	Translocator protein (18ÂkDa) (TSPO) ligands activate Nrf2 signaling and attenuate inflammatory responses and oxidative stress in human retinal pigment epithelial cells. Biochemical and Biophysical Research Communications, 2020, 528, 261-268.	2.1	8
66	A Circulating MicroRNA Profile in a Laser-Induced Mouse Model of Choroidal Neovascularization. International Journal of Molecular Sciences, 2020, 21, 2689.	4.1	8
67	Gut flora connects obesity with pathological angiogenesis in the eye. EMBO Molecular Medicine, 2016, 8, 1361-1363.	6.9	6
68	Retinal expression and localization of Mef2c support its important role in photoreceptor gene expression. Biochemical and Biophysical Research Communications, 2017, 483, 346-351.	2.1	4
69	Cystoid edema, neovascularization and inflammatory processes in the murine Norrin-deficient retina. Scientific Reports, 2018, 8, 5970.	3.3	4
70	Testing for Known Retinal Degeneration Mutants in Mouse Strains. Methods in Molecular Biology, 2019, 1834, 45-58.	0.9	4
71	The AhR ligand 2, 2â€²-aminophenyl indole (2AI) regulates microglia homeostasis and reduces pro-inflammatory signaling. Biochemical and Biophysical Research Communications, 2021, 579, 15-21.	2.1	4
72	PDGF Receptor Alpha Signaling Is Key for MÃ¼ller Cell Homeostasis Functions. International Journal of Molecular Sciences, 2021, 22, 1174.	4.1	4

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73	Retinal expression of the X-linked juvenile retinoschisis (RS1) gene is controlled by an upstream CpG island and two opposing CRX-bound regions. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2011, 1809, 245-254.	1.9	3
74	Microglia Analysis in Retinal Degeneration Mouse Models. Methods in Molecular Biology, 2018, 1753, 159-166.	0.9	3
75	Further Characterization of the Predominant Inner Retinal Degeneration of Aging Cln3 Î”ex7/8 Knock-In Mice. Advances in Experimental Medicine and Biology, 2018, 1074, 403-411.	1.6	3
76	Phenotypic Differences in Primary Murine Microglia Treated with NOD1, NOD2, and NOD1/2 Agonists. Journal of Molecular Neuroscience, 2020, 70, 600-609.	2.3	3
77	AMD-Associated HTRA1 Variants Do Not Influence TGF-Î² Signaling in Microglia. Advances in Experimental Medicine and Biology, 2019, 1185, 3-7.	1.6	3
78	Class A Scavenger Receptors Shed Light on Immune Cell Recruitment and CNV. , 2013, 54, 5971.		1
79	IFN-Î² signaling dampens microglia reactivity but does not prevent from light-induced retinal degeneration. Biochemistry and Biophysics Reports, 2020, 24, 100866.	1.3	1
80	Modulation of microglia scanning functions by Aflibercept. Klinische Monatsblatter Fur Augenheilkunde, 2017, 234, .	0.5	0
81	ERG Alteration Due toÂthe rd8 Mutation of theÂCrb1 Gene in Cln3 +/+ rd8â^'/rd8- Mice. Advances in Experimental Medicine and Biology, 2019, 1185, 395-400.	1.6	0
82	Cytokine signaling as key regulator of pathological angiogenesis in the eye. EBioMedicine, 2021, 73, 103662.	6.1	0