

Robert N Fariss

List of Publications by Year in descending order

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78
papers

6,723
citations

76196

40
h-index

114278

63
g-index

78
all docs

78
docs citations

78
times ranked

8054
citing authors

#	ARTICLE	IF	CITATIONS
1	Age-Related Macular Degeneration: Genetics and Biology Coming Together. Annual Review of Genomics and Human Genetics, 2014, 15, 151-171.	2.5	394
2	Age-related alterations in the dynamic behavior of microglia. Aging Cell, 2011, 10, 263-276.	3.0	372
3	Microglial phagocytosis of living photoreceptors contributes to inherited retinal degeneration. EMBO Molecular Medicine, 2015, 7, 1179-1197.	3.3	340
4	Microglial Morphology and Dynamic Behavior Is Regulated by Ionotropic Glutamatergic and GABAergic Neurotransmission. PLoS ONE, 2011, 6, e15973.	1.1	278
5	Abnormalities in rod photoreceptors, amacrine cells, and horizontal cells in human retinas with retinitis pigmentosa. American Journal of Ophthalmology, 2000, 129, 215-223.	1.7	245
6	VEGF-B is dispensable for blood vessel growth but critical for their survival, and VEGF-B targeting inhibits pathological angiogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6152-6157.	3.3	243
7	Five Members of a Novel Ca ²⁺ -binding Protein (CABP) Subfamily with Similarity to Calmodulin. Journal of Biological Chemistry, 2000, 275, 1247-1260.	1.6	231
8	New views on RPE65 deficiency: the rod system is the source of vision in a mouse model of Leber congenital amaurosis. Nature Genetics, 2001, 29, 70-74.	9.4	222
9	Disruption of microfilament organization and deregulation of disk membrane morphogenesis by cytochalasin D in rod and cone photoreceptors. Journal of Comparative Neurology, 1988, 272, 161-176.	0.9	199
10	Requirement for Microglia for the Maintenance of Synaptic Function and Integrity in the Mature Retina. Journal of Neuroscience, 2016, 36, 2827-2842.	1.7	179
11	Microglia in the Mouse Retina Alter the Structure and Function of Retinal Pigmented Epithelial Cells: A Potential Cellular Interaction Relevant to AMD. PLoS ONE, 2009, 4, e7945.	1.1	178
12	Macrogliia-Microglia Interactions via TSPO Signaling Regulates Microglial Activation in the Mouse Retina. Journal of Neuroscience, 2014, 34, 3793-3806.	1.7	176
13	Ex Vivo Dynamic Imaging of Retinal Microglia Using Time-Lapse Confocal Microscopy. Investigative Ophthalmology and Visual Science, 2008, 49, 4169-4176.	3.3	170
14	High expression levels in cones of RGS9, the predominant GTPase accelerating protein of rods. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 5351-5356.	3.3	159
15	Microglial phagocytosis and activation underlying photoreceptor degeneration is regulated by CX3CL1-CX3CR1 signaling in a mouse model of retinitis pigmentosa. Glia, 2016, 64, 1479-1491.	2.5	145
16	Expression of Mutated Mouse Myocilin Induces Open-Angle Glaucoma in Transgenic Mice. Journal of Neuroscience, 2006, 26, 11903-11914.	1.7	144
17	Mutations in FYCO1 Cause Autosomal-Recessive Congenital Cataracts. American Journal of Human Genetics, 2011, 88, 827-838.	2.6	132
18	Pigment epithelium-derived factor in the monkey retinal pigment epithelium and interphotoreceptor matrix: apical secretion and distribution. Experimental Eye Research, 2004, 78, 223-234.	1.2	121

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19	Effective tumor treatment targeting a melanoma/melanocyte-associated antigen triggers severe ocular autoimmunity. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 8061-8066.	3.3	114
20	Survival effect of PDGF-CC rescues neurons from apoptosis in both brain and retina by regulating GSK3 β phosphorylation. Journal of Experimental Medicine, 2010, 207, 867-880.	4.2	110
21	CEP290 alleles in mice disrupt tissue-specific cilia biogenesis and recapitulate features of syndromic ciliopathies. Human Molecular Genetics, 2015, 24, 3775-3791.	1.4	105
22	Rod and cone visual cycle consequences of a null mutation in the 11-cis-retinol dehydrogenase gene in man. Visual Neuroscience, 2000, 17, 667-678.	0.5	99
23	A Retinal Neuronal Developmental Wave of Retinoschisin Expression Begins in Ganglion Cells during Layer Formation. , 2004, 45, 3302.		93
24	RPE Cells Internalize Low-Density Lipoprotein (LDL) and Oxidized LDL (oxLDL) in Large Quantities In Vitro and In Vivo. , 2004, 45, 2822.		90
25	A2E accumulation influences retinal microglial activation and complement regulation. Neurobiology of Aging, 2013, 34, 943-960.	1.5	87
26	Repopulating retinal microglia restore endogenous organization and function under CX3CL1-CX3CR1 regulation. Science Advances, 2018, 4, eaap8492.	4.7	81
27	Localization of guanylate cyclase-activating protein 2 in mammalian retinas. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 4727-4732.	3.3	76
28	Pdlim2, a Novel PDZ-LIM Domain Protein, Interacts with β -Actinins and Filamin A. , 2004, 45, 3955.		72
29	PDGF-CC blockade inhibits pathological angiogenesis by acting on multiple cellular and molecular targets. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12216-12221.	3.3	69
30	Mapping of the Neonatal Fc Receptor in the Rodent Eye. , 2008, 49, 2025.		65
31	β A3/A1-crystallin in astroglial cells regulates retinal vascular remodeling during development. Molecular and Cellular Neurosciences, 2008, 37, 85-95.	1.0	64
32	A long-term efficacy study of gene replacement therapy for RPGR-associated retinal degeneration. Human Molecular Genetics, 2015, 24, 3956-3970.	1.4	63
33	Immunological protein expression profile in Ccl2/Cx3cr1 deficient mice with lesions similar to age-related macular degeneration. Experimental Eye Research, 2008, 86, 675-683.	1.2	59
34	Photopic ERG Negative Response from Amacrine Cell Signaling in RCS Rat Retinal Degeneration. , 2008, 49, 442.		59
35	A Novel Imaging Technique for Experimental Choroidal Neovascularization. , 2006, 47, 5163.		58
36	Disc shedding and autophagy in the cone-dominant ground squirrel retina. Experimental Eye Research, 1986, 43, 193-205.	1.2	55

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37	The matricellular protein SPARC is expressed in human trabecular meshwork. <i>Experimental Eye Research</i> , 2003, 77, 601-607.	1.2	54
38	Rare and common variants in extracellular matrix gene Fibrillin 2 (FBN2) are associated with macular degeneration. <i>Human Molecular Genetics</i> , 2014, 23, 5827-5837.	1.4	52
39	A unique pattern of up- and down-regulation of chemokine receptor CXCR3 on inflammation-inducing Th1 cells. <i>European Journal of Immunology</i> , 2004, 34, 2885-2894.	1.6	51
40	Preservation of Cone Photoreceptors after a Rapid yet Transient Degeneration and Remodeling in Cone-Only Nrl ^{-/-} Mouse Retina. <i>Journal of Neuroscience</i> , 2012, 32, 528-541.	1.7	51
41	Distinct nuclear localization patterns of DNA methyltransferases in developing and mature mammalian retina. <i>Journal of Comparative Neurology</i> , 2011, 519, 1914-1930.	0.9	47
42	Guanylate-cyclase-inhibitory protein is a frog retinal Ca ²⁺ -binding protein related to mammalian guanylate-cyclase-activating proteins. <i>FEBS Journal</i> , 1998, 252, 591-599.	0.2	46
43	Haploinsufficiency Is Not the Key Mechanism of Pathogenesis in a Heterozygous Elov14 Knockout Mouse Model of STGD3 Disease. , 2006, 47, 3603.		45
44	Minocycline Attenuates Photoreceptor Degeneration in a Mouse Model of Subretinal Hemorrhage. <i>American Journal of Pathology</i> , 2011, 179, 1265-1277.	1.9	44
45	Phosphorylation of photolyzed rhodopsin is calcium-insensitive in retina permeabilized by A-toxin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 15014-15019.	3.3	43
46	Transscleral-RPE Permeability of PEDF and Ovalbumin Proteins: Implications for Subconjunctival Protein Delivery. , 2005, 46, 4383.		43
47	Cdk5 regulates activation and localization of Src during corneal epithelial wound closure. <i>Journal of Cell Science</i> , 2004, 117, 4089-4098.	1.2	41
48	Development and Plasticity of Outer Retinal Circuitry Following Genetic Removal of Horizontal Cells. <i>Journal of Neuroscience</i> , 2013, 33, 17847-17862.	1.7	41
49	Dnmt1, Dnmt3a and Dnmt3b cooperate in photoreceptor and outer plexiform layer development in the mammalian retina. <i>Experimental Eye Research</i> , 2017, 159, 132-146.	1.2	39
50	Interaction of Complement Factor H and Fibulin3 in Age-Related Macular Degeneration. <i>PLoS ONE</i> , 2013, 8, e68088.	1.1	37
51	Intravitreal Methotrexate Resistance in a Patient with Primary Intraocular Lymphoma. <i>Ocular Immunology and Inflammation</i> , 2008, 16, 29-33.	1.0	35
52	Expression of β -Carotene 15,15- Δ^2 Monooxygenase in Retina and RPE-Choroid. , 2003, 44, 44.		34
53	Differentiation of human retinal pigment epithelial cells into neuronal phenotype by N-(4-hydroxyphenyl)retinamide. <i>Journal of Neurochemistry</i> , 2003, 84, 972-981.	2.1	32
54	Lens Major Intrinsic Protein (MIP)/Aquaporin O Expression in Rat Lens Epithelia Explants Requires Fibroblast Growth Factor-induced ERK and JNK Signaling. <i>Journal of Biological Chemistry</i> , 2004, 279, 31813-31822.	1.6	32

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55	A Specific Interaction between Muskelin and the Cyclin-dependent Kinase 5 Activator p39 Promotes Peripheral Localization of Muskelin. <i>Journal of Biological Chemistry</i> , 2005, 280, 21376-21383.	1.6	32
56	Expression of GITR ligand abrogates immunosuppressive function of ocular tissue and differentially modulates inflammatory cytokines and chemokines. <i>European Journal of Immunology</i> , 2006, 36, 2128-2138.	1.6	32
57	Constitutive and Cytokine-Induced GITR Ligand Expression on Human Retinal Pigment Epithelium and Photoreceptors. , 2004, 45, 3170.		31
58	Platelet-derived Growth Factor D, Tissue-specific Expression in the Eye, and a Key Role in Control of Lens Epithelial Cell Proliferation. <i>Journal of Biological Chemistry</i> , 2005, 280, 8494-8502.	1.6	31
59	Microglia in the primate macula: specializations in microglial distribution and morphology with retinal position and with aging. <i>Brain Structure and Function</i> , 2017, 222, 2759-2771.	1.2	31
60	Retinal vascular repair and neovascularization are not dependent on CX3CR1 signaling in a model of ischemic retinopathy. <i>Experimental Eye Research</i> , 2009, 88, 1004-1013.	1.2	30
61	\hat{I}^3E -crystallin Recruitment to the Plasma Membrane by Specific Interaction between Lens MIP/Aquaporin-0 and \hat{I}^3E -crystallin. , 2004, 45, 863.		29
62	Selective Cytoplasmic Translocation of HuR and Site-specific Binding to the Interleukin-2 mRNA Are Not Sufficient for CD28-mediated Stabilization of the mRNA. <i>Journal of Biological Chemistry</i> , 2004, 279, 33359-33367.	1.6	29
63	A Role for Lengsin, a Recruited Enzyme, in Terminal Differentiation in the Vertebrate Lens. <i>Journal of Biological Chemistry</i> , 2008, 283, 6607-6615.	1.6	29
64	Probing potassium channel function in vivo by intracellular delivery of antibodies in a rat model of retinal neurodegeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 12710-12715.	3.3	28
65	An Intramembrane Glutamic Acid Governs Peripherin/rds Function for Photoreceptor Disk Morphogenesis. , 2007, 48, 2975.		27
66	DNase-active TREX1 frame-shift mutants induce serologic autoimmunity in mice. <i>Journal of Autoimmunity</i> , 2017, 81, 13-23.	3.0	27
67	Comparison of photoreceptor-specific matrix domains in the cat and monkey retinas. <i>Experimental Eye Research</i> , 1990, 51, 473-485.	1.2	26
68	Central Immunotolerance in Transgenic Mice Expressing a Foreign Antigen under Control of the Rhodopsin Promoter. , 2004, 45, 857.		25
69	Mutated Mouse and Human Myocilins Have Similar Properties and Do Not Block General Secretory Pathway. , 2006, 47, 206.		25
70	Serum Albumin in Mammalian Cornea: Implications for Clinical Application. , 2003, 44, 3339.		24
71	REEP6 mediates trafficking of a subset of Clathrin-coated vesicles and is critical for rod photoreceptor function and survival. <i>Human Molecular Genetics</i> , 2017, 26, 2218-2230.	1.4	23
72	Morphological characterization of the retinal degeneration in three strains of mice carrying the <i>rd-3</i> mutation. <i>Visual Neuroscience</i> , 2005, 22, 721-734.	0.5	22

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73	Perivascular Mural Cells of the Mouse Choroid Demonstrate Morphological Diversity That Is Correlated to Vasoregulatory Function. PLoS ONE, 2013, 8, e53386.	1.1	22
74	Synergy of Epidermal Growth Factor and 12(S)-Hydroxyeicosatetraenoate on Protein Kinase C Activation in Lens Epithelial Cells. Journal of Biological Chemistry, 2003, 278, 5388-5398.	1.6	20
75	Retinoid cycling proteins redistribute in light-/dark-adapted octopus retinas. Journal of Comparative Neurology, 1995, 358, 605-614.	0.9	18
76	Differentiation of Malignant B-Lymphoma Cells from Normal and Activated T-Cell Populations by Their Intrinsic Autofluorescence. Cancer Research, 2009, 69, 4911-4917.	0.4	18
77	Cell density-dependent nuclear/cytoplasmic localization of NORPEG (RAI14) protein. Biochemical and Biophysical Research Communications, 2006, 345, 1333-1341.	1.0	16
78	Tunicamycin-induced degeneration in cone photoreceptors. Visual Neuroscience, 1988, 1, 153-158.	0.5	14