

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	Repopulating retinal microglia restore endogenous organization and function under CX3CL1-CX3CR1 regulation. <i>Science Advances</i> , 2018, 4, eaap8492.	4.7	81
2	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
3	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
4	DNase-active TREX1 frame-shift mutants induce serologic autoimmunity in mice. <i>Journal of Autoimmunity</i> , 2017, 81, 13-23.	3.0	27
5	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
6	Requirement for Microglia for the Maintenance of Synaptic Function and Integrity in the Mature Retina. <i>Journal of Neuroscience</i> , 2016, 36, 2827-2842.	1.7	179
7	Microglial phagocytosis and activation underlying photoreceptor degeneration is regulated by CX3CL1-CX3CR1 signaling in a mouse model of retinitis pigmentosa. <i>Glia</i> , 2016, 64, 1479-1491.	2.5	145
8	Microglial phagocytosis of living photoreceptors contributes to inherited retinal degeneration. <i>EMBO Molecular Medicine</i> , 2015, 7, 1179-1197.	3.3	340
9	A long-term efficacy study of gene replacement therapy for RPGR-associated retinal degeneration. <i>Human Molecular Genetics</i> , 2015, 24, 3956-3970.	1.4	63
10	CEP290 alleles in mice disrupt tissue-specific cilia biogenesis and recapitulate features of syndromic ciliopathies. <i>Human Molecular Genetics</i> , 2015, 24, 3775-3791.	1.4	105
11	Macroglia-Microglia Interactions via TSPO Signaling Regulates Microglial Activation in the Mouse Retina. <i>Journal of Neuroscience</i> , 2014, 34, 3793-3806.	1.7	176
12	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
13	Age-Related Macular Degeneration: Genetics and Biology Coming Together. <i>Annual Review of Genomics and Human Genetics</i> , 2014, 15, 151-171.	2.5	394
14	A2E accumulation influences retinal microglial activation and complement regulation. <i>Neurobiology of Aging</i> , 2013, 34, 943-960.	1.5	87
15	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
16	Perivascular Mural Cells of the Mouse Choroid Demonstrate Morphological Diversity That Is Correlated to Vasoregulatory Function. <i>PLoS ONE</i> , 2013, 8, e53386.	1.1	22
17	Interaction of Complement Factor H and Fibulin3 in Age-Related Macular Degeneration. <i>PLoS ONE</i> , 2013, 8, e68088.	1.1	37
18	Preservation of Cone Photoreceptors after a Rapid yet Transient Degeneration and Remodeling in Cone-Only Mouse Retina. <i>Journal of Neuroscience</i> , 2012, 32, 528-541.	1.7	51

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19	Minocycline Attenuates Photoreceptor Degeneration in a Mouse Model of Subretinal Hemorrhage. American Journal of Pathology, 2011, 179, 1265-1277.	1.9	44
20	Microglial Morphology and Dynamic Behavior Is Regulated by Ionotropic Glutamatergic and GABAergic Neurotransmission. PLoS ONE, 2011, 6, e15973.	1.1	278
21	Age-related alterations in the dynamic behavior of microglia. Aging Cell, 2011, 10, 263-276.	3.0	372
22	Mutations in FYCO1 Cause Autosomal-Recessive Congenital Cataracts. American Journal of Human Genetics, 2011, 88, 827-838.	2.6	132
23	Distinct nuclear localization patterns of DNA methyltransferases in developing and mature mammalian retina. Journal of Comparative Neurology, 2011, 519, 1914-1930.	0.9	47
24	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
25	Probing potassium channel function in vivo by intracellular delivery of antibodies in a rat model of retinal neurodegeneration. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12710-12715.	3.3	28
26	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
27	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
28	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
29	Retinal vascular repair and neovascularization are not dependent on CX3CR1 signaling in a model of ischemic retinopathy. Experimental Eye Research, 2009, 88, 1004-1013.	1.2	30
30	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
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	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
33	Mapping of the Neonatal Fc Receptor in the Rodent Eye. , 2008, 49, 2025.		65
34	Photopic ERG Negative Response from Amacrine Cell Signaling in RCS Rat Retinal Degeneration. , 2008, 49, 442.		59
35	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
36	A Role for Lengsin, a Recruited Enzyme, in Terminal Differentiation in the Vertebrate Lens. Journal of Biological Chemistry, 2008, 283, 6607-6615.	1.6	29

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37	Intravitreal Methotrexate Resistance in a Patient with Primary Intraocular Lymphoma. <i>Ocular Immunology and Inflammation</i> , 2008, 16, 29-33.	1.0	35
38	Ex Vivo Dynamic Imaging of Retinal Microglia Using Time-Lapse Confocal Microscopy. <i>Investigative Ophthalmology and Visual Science</i> , 2008, 49, 4169-4176.	3.3	170
39	An Intramembrane Glutamic Acid Governs Peripherin/rds Function for Photoreceptor Disk Morphogenesis. , 2007, 48, 2975.		27
40	Cell density-dependent nuclear/cytoplasmic localization of NORPEG (RAI14) protein. <i>Biochemical and Biophysical Research Communications</i> , 2006, 345, 1333-1341.	1.0	16
41	Haploinsufficiency Is Not the Key Mechanism of Pathogenesis in a Heterozygous Elov14 Knockout Mouse Model of STGD3 Disease. , 2006, 47, 3603.		45
42	Expression of G1TR 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
43	Expression of Mutated Mouse Myocilin Induces Open-Angle Glaucoma in Transgenic Mice. <i>Journal of Neuroscience</i> , 2006, 26, 11903-11914.	1.7	144
44	A Novel Imaging Technique for Experimental Choroidal Neovascularization. , 2006, 47, 5163.		58
45	Mutated Mouse and Human Myocilins Have Similar Properties and Do Not Block General Secretory Pathway. , 2006, 47, 206.		25
46	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
47	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
48	A Specific Interaction between Muskelein and the Cyclin-dependent Kinase 5 Activator p39 Promotes Peripheral Localization of Muskelein. <i>Journal of Biological Chemistry</i> , 2005, 280, 21376-21383.	1.6	32
49	Transscleral-RPE Permeability of PEDF and Ovalbumin Proteins: Implications for Subconjunctival Protein Delivery. , 2005, 46, 4383.		43
50	A Retinal Neuronal Developmental Wave of Retinoschisin Expression Begins in Ganglion Cells during Layer Formation. , 2004, 45, 3302.		93
51	RPE Cells Internalize Low-Density Lipoprotein (LDL) and Oxidized LDL (oxLDL) in Large Quantities In Vitro and In Vivo. , 2004, 45, 2822.		90
52	Pdlim2, a Novel PDZ-LIM Domain Protein, Interacts with β -Actin and Filamin A. , 2004, 45, 3955.		72
53	Central Immunotolerance in Transgenic Mice Expressing a Foreign Antigen under Control of the Rhodopsin Promoter. , 2004, 45, 857.		25
54	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

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55	\hat{I}^3 E-crystallin Recruitment to the Plasma Membrane by Specific Interaction between Lens MIP/Aquaporin-0 and \hat{I}^3 E-crystallin. , 2004, 45, 863.		29
56	Lens Major Intrinsic Protein (MIP)/Aquaporin 0 Expression in Rat Lens Epithelia Explants Requires Fibroblast Growth Factor-induced ERK and JNK Signaling. Journal of Biological Chemistry, 2004, 279, 31813-31822.	1.6	32
57	Selective Cytoplasmic Translocation of HuR and Site-specific Binding to the Interleukin-2 mRNA Are Not Sufficient for CD28-mediated Stabilization of the mRNA. Journal of Biological Chemistry, 2004, 279, 33359-33367.	1.6	29
58	Constitutive and Cytokine-Induced GPCR Ligand Expression on Human Retinal Pigment Epithelium and Photoreceptors. , 2004, 45, 3170.		31
59	A unique pattern of up- and down-regulation of chemokine receptor CXCR3 on inflammation-inducing Th1 cells. European Journal of Immunology, 2004, 34, 2885-2894.	1.6	51
60	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
61	Differentiation of human retinal pigment epithelial cells into neuronal phenotype by N-(4-hydroxyphenyl)retinamide. Journal of Neurochemistry, 2003, 84, 972-981.	2.1	32
62	Serum Albumin in Mammalian Cornea: Implications for Clinical Application. , 2003, 44, 3339.		24
63	The matricellular protein SPARC is expressed in human trabecular meshwork. Experimental Eye Research, 2003, 77, 601-607.	1.2	54
64	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
65	Expression of \hat{I}^2 -Carotene 15,15- \hat{I}^2 Monooxygenase in Retina and RPE-Choroid. , 2003, 44, 44.		34
66	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
67	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
68	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
69	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
70	Guanylate-cyclase-inhibitory protein is a frog retinal Ca ²⁺ -binding protein related to mammalian guanylate-cyclase-activating proteins. FEBS Journal, 1998, 252, 591-599.	0.2	46
71	Phosphorylation of photolyzed rhodopsin is calcium-insensitive in retina permeabilized by \hat{A} -toxin. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 15014-15019.	3.3	43
72	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

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73	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
74	Retinoid cycling proteins redistribute in light-/dark-adapted octopus retinas. Journal of Comparative Neurology, 1995, 358, 605-614.	0.9	18
75	Comparison of photoreceptor-specific matrix domains in the cat and monkey retinas. Experimental Eye Research, 1990, 51, 473-485.	1.2	26
76	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
77	Tunicamycin-induced degeneration in cone photoreceptors. Visual Neuroscience, 1988, 1, 153-158.	0.5	14
78	Disc shedding and autophagy in the cone-dominant ground squirrel retina. Experimental Eye Research, 1986, 43, 193-205.	1.2	55