Alistair J Barber

List of Publications by Year
in descending order

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48	6,516	218677	395702
papers	citations	26 h-index	33 g-index

48	48	48	5349
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Diabetic Retinopathy. Diabetes, 2006, 55, 2401-2411.	0.6	673
2	Vascular Endothelial Growth Factor Induces Rapid Phosphorylation of Tight Junction Proteins Occludin and Zonula Occluden 1. Journal of Biological Chemistry, 1999, 274, 23463-23467.	3.4	575
3	A new view of diabetic retinopathy: a neurodegenerative disease of the eye. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2003, 27, 283-290.	4.8	535
4	Diabetic Retinopathy. Survey of Ophthalmology, 2002, 47, S253-S262.	4.0	499
5	The Ins2^{Akita}Mouse as a Model of Early Retinal Complications in Diabetes. , 2005, 46, 2210.		442
6	The Significance of Vascular and Neural Apoptosis to the Pathology of Diabetic Retinopathy. , 2011, 52, 1156.		361
7	Retinal ganglion cells in diabetes. Journal of Physiology, 2008, 586, 4401-4408.	2.9	341
8	Retinal neurodegeneration: early pathology in diabetes. Clinical and Experimental Ophthalmology, 2000, 28, 3-8.	2.6	313
9	Insulin Rescues Retinal Neurons from Apoptosis by a Phosphatidylinositol 3-Kinase/Akt-mediated Mechanism That Reduces the Activation of Caspase-3. Journal of Biological Chemistry, 2001, 276, 32814-32821.	3.4	279
10	Loss of Cholinergic and Dopaminergic Amacrine Cells in Streptozotocin-Diabetic Rat and Ins2Akita-Diabetic Mouse Retinas. , 2006, 47, 3143.		212
11	Molecular Mechanisms of Vascular Permeability in Diabetic Retinopathy. Seminars in Ophthalmology, 1999, 14, 240-248.	1.6	202
12	Excessive Hexosamines Block the Neuroprotective Effect of Insulin and Induce Apoptosis in Retinal Neurons. Journal of Biological Chemistry, 2001, 276, 43748-43755.	3.4	162
13	Dendrite Remodeling and Other Abnormalities in the Retinal Ganglion Cells of Ins2^{Akita}Diabetic Mice. , 2008, 49, 2635.		151
14	NRF2 plays a protective role in diabetic retinopathy in mice. Diabetologia, 2014, 57, 204-213.	6.3	149
15	Characterization of insulin signaling in rat retina in vivo and ex vivo. American Journal of Physiology - Endocrinology and Metabolism, 2003, 285, E763-E774.	3.5	101
16	Mapping the Blood Vessels with Paracellular Permeability in the Retinas of Diabetic Rats. , 2003, 44, 5410.		98
17	Whole genome assessment of the retinal response to diabetes reveals a progressive neurovascular inflammatory response. BMC Medical Genomics, 2008, 1, 26.	1.5	98
18	Proteomic Analysis of Early Diabetic Retinopathy Reveals Mediators of Neurodegenerative Brain Diseases. , 2018, 59, 2264.		91

#	Article	IF	Citations
19	Histamine reduces ZO-1 tight-junction protein expression in cultured retinal microvascular endothelial cells. Biochemical Journal, 1996, 320, 717-721.	3.7	87
20	Diabetes downregulates presynaptic proteins and reduces basal synapsin I phosphorylation in rat retina. European Journal of Neuroscience, 2008, 28, 1-11.	2.6	87
21	An Integrated Approach to Diabetic Retinopathy Research. JAMA Ophthalmology, 2011, 129, 230.	2.4	83
22	Role of specific aminotransferases in de novo glutamate synthesis and redox shuttling in the retina. Journal of Neuroscience Research, 2001, 66, 914-922.	2.9	81
23	Visual Dysfunction Associated with Diabetic Retinopathy. Current Diabetes Reports, 2010, 10, 380-384.	4.2	76
24	Neurodegeneration in diabetic retinopathy: Potential for novel therapies. Vision Research, 2017, 139, 82-92.	1.4	73
25	Effects of Ischemic Preconditioning and Bevacizumab on Apoptosis and Vascular Permeability Following Retinal Ischemiaâ€“Reperfusion Injury. , 2010, 51, 5920.		70
26	Nrf2 as molecular target for polyphenols: A novel therapeutic strategy in diabetic retinopathy. Critical Reviews in Clinical Laboratory Sciences, 2016, 53, 293-312.	6.1	65
27	The molecular structure and function of the inner blood-retinal barrier. Penn State Retina Research Group. Documenta Ophthalmologica, 1999, 97, 229-237.	2.2	64
28	Platelet-derived growth factor mediates tight junction redistribution and increases permeability in MDCK cells. Journal of Cellular Physiology, 2002, 193, 349-364.	4.1	63
29	Review Paper: New Insights into the Pathophysiology of Diabetic Retinopathy: Potential Cell-Specific Therapeutic Targets. Diabetes Technology and Therapeutics, 2000, 2, 601-608.	4.4	62
30	Differential Roles of Hyperglycemia and Hypoinsulinemia in Diabetes Induced Retinal Cell Death: Evidence for Retinal Insulin Resistance. PLoS ONE, 2011, 6, e26498.	2.5	62
31	Elevated Glucose Changes the Expression of Ionotropic Glutamate Receptor Subunits and Impairs Calcium Homeostasis in Retinal Neural Cells. , 2006, 47, 4130.		52
32	Diabetic retinopathy: recent advances towards understanding neurodegeneration and vision loss. Science China Life Sciences, 2015, 58, 541-549.	4.9	51
33	The stress response protein REDD1 promotes diabetes-induced oxidative stress in the retina by Keap1-independent Nrf2 degradation. Journal of Biological Chemistry, 2020, 295, 7350-7361.	3.4	44
34	Deletion of the Akt/mTORC1 Repressor REDD1 Prevents Visual Dysfunction in a Rodent Model of Type 1 Diabetes. Diabetes, 2018, 67, 110-119.	0.6	36
35	REDD1 Activates a ROS-Generating Feedback Loop in the Retina of Diabetic Mice. , 2019, 60, 2369.		30
36	Amnesia induced by 2-Deoxygalactose in the day-old chick: lateralization of effects in two different one-trial learning tasks. Behavioral and Neural Biology, 1991, 56, 77-88.	2.2	21

#	Article	IF	Citations
37	Neurodegeneration, Neuroprotection and Regeneration in the Zebrafish Retina. Cells, 2021, 10, 633.	4.1	21
38	Post-Translational Processing of Synaptophysin in the Rat Retina Is Disrupted by Diabetes. PLoS ONE, 2012, 7, e44711.	2.5	21
39	The Translational Repressor 4E-BP1 Contributes to Diabetes-Induced Visual Dysfunction. , 2016, 57, 1327.		20
40	Short-Term Administration of Astaxanthin Attenuates Retinal Changes in Diet-Induced Diabetic Psammomys obesus. Current Eye Research, 2018, 43, 1177-1189.	1.5	18
41	Regulation of Fibroblast Growth Factor 2 Expression in Oxygen-Induced Retinopathy. Investigative Ophthalmology and Visual Science, 2015, 56, 207-215.	3.3	17
42	Glycoprotein Synthesis Is Necessary for Memory of Sickness-Induced Learning in Chicks. European Journal of Neuroscience, 1989, 1, 673-677.	2.6	15
43	MÃ¼ller Glial Expression of REDD1 Is Required for Retinal Neurodegeneration and Visual Dysfunction in Diabetic Mice. Diabetes, 2022, 71, 1051-1062.	0.6	12
44	The Neuronal Influence on Retinal Vascular Pathology. , 2007, , 108-120.		1
45	Neurodegeneration in Diabetic Retinopathy. , 2012, , 189-209.		1
46	Neuroglial Dysfunction in Diabetic Retinopathy. , 2008, , 283-301.		1
47	In response to letter from Dr. G.B. Arden, Applied Vision Research Center, City University, London. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2004, 28, 745-746.	4.8	0
48	The molecular structure and function of the inner blood-retinal barrier. , 2000, , 25-33.		0