Alistair Barber

List of Publications by Year
in descending order

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36	6,835	236925	454955
papers	citations	25 h-index	30 g-index

36	36	36	5381
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Neural apoptosis in the retina during experimental and human diabetes. Early onset and effect of insulin.. Journal of Clinical Investigation, 1998, 102, 783-791.	8.2	1,090
2	Diabetic Retinopathy. Diabetes, 2006, 55, 2401-2411.	0.6	673
3	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
4	Vascular permeability in experimental diabetes is associated with reduced endothelial occludin content: vascular endothelial growth factor decreases occludin in retinal endothelial cells. Penn State Retina Research Group.. Diabetes, 1998, 47, 1953-1959.	0.6	547
5	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
6	The Ins2^{Akita}Mouse as a Model of Early Retinal Complications in Diabetes. , 2005, 46, 2210.		442
7	Glial reactivity and impaired glutamate metabolism in short-term experimental diabetic retinopathy. Penn State Retina Research Group.. Diabetes, 1998, 47, 815-820.	0.6	437
8	Retinal ganglion cells in diabetes. Journal of Physiology, 2008, 586, 4401-4408.	2.9	341
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	Mapping the Blood Vessels with Paracellular Permeability in the Retinas of Diabetic Rats. , 2003, 44, 5410.		98
16	Diabetes downregulates presynaptic proteins and reduces basal synapsin I phosphorylation in rat retina. European Journal of Neuroscience, 2008, 28, 1-11.	2.6	87
17	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
18	Visual Dysfunction Associated with Diabetic Retinopathy. Current Diabetes Reports, 2010, 10, 380-384.	4.2	76

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19	Neurodegeneration in diabetic retinopathy: Potential for novel therapies. Vision Research, 2017, 139, 82-92.	1.4	73
20	Energy sources for glutamate neurotransmission in the retina: absence of the aspartate/glutamate carrier produces reliance on glycolysis in glia. Journal of Neurochemistry, 2007, 101, 120-131.	3.9	65
21	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
22	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
23	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
24	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
25	Elevated Glucose Changes the Expression of Ionotropic Glutamate Receptor Subunits and Impairs Calcium Homeostasis in Retinal Neural Cells. , 2006, 47, 4130.		52
26	(â˜)Deprenyl Reduces Delayed Neuronal Death of Hippocampal Pyramidal Cells. Neuroscience and Biobehavioral Reviews, 1997, 21, 181-186.	6.1	44
27	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
28	Histamine receptors in mammalian retinas. Journal of Comparative Neurology, 2006, 495, 658-667.	1.6	33
29	A multistep validation process of biomarkers for preclinical drug development. Pharmacogenomics Journal, 2010, 10, 385-395.	2.0	27
30	TRPC3 Activation by Erythropoietin Is Modulated by TRPC6. Journal of Biological Chemistry, 2009, 284, 4567-4581.	3.4	25
31	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
32	Short-Term Administration of Astaxanthin Attenuates Retinal Changes in Diet-Induced Diabetic Psammomys obesus. Current Eye Research, 2018, 43, 1177-1189.	1.5	18
33	Chronic effects of monoamine oxidase-B inhibitors on the behaviour of aged mice. Life Sciences, 1993, 53, 739-747.	4.3	16
34	Glycoprotein Synthesis Is Necessary for Memory of Sickness-Induced Learning in Chicks. European Journal of Neuroscience, 1989, 1, 673-677.	2.6	15
35	Synthesis and structureâ€“activity relationships of 2-amino-3-carboxy-4-phenylthiophenes as novel atypical protein kinase C inhibitors. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 3034-3038.	2.2	13
36	JOBDI special editionâ€”introduction. Journal of Ocular Biology, Diseases, and Informatics, 2011, 4, 1-2.	0.2	0