

Alistair Barber

List of Publications by Year in descending order

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36
papers

6,835
citations

236612

25
h-index

454577

30
g-index

36
all docs

36
docs citations

36
times ranked

5381
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.	3.9	1,090
2	Diabetic Retinopathy. Diabetes, 2006, 55, 2401-2411.	0.3	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.	1.6	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.	0.3	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.	2.5	535
6	The Ins2AkitaMouse 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.	0.3	437
8	Retinal ganglion cells in diabetes. Journal of Physiology, 2008, 586, 4401-4408.	1.3	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.	1.6	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.	0.8	202
12	Excessive Hexosamines Block the Neuroprotective Effect of Insulin and Induce Apoptosis in Retinal Neurons. Journal of Biological Chemistry, 2001, 276, 43748-43755.	1.6	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.	2.9	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.	1.2	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.	1.3	81
18	Visual Dysfunction Associated with Diabetic Retinopathy. Current Diabetes Reports, 2010, 10, 380-384.	1.7	76

#	ARTICLE	IF	CITATIONS
19	Neurodegeneration in diabetic retinopathy: Potential for novel therapies. <i>Vision Research</i> , 2017, 139, 82-92.	0.7	73
20	Energy sources for glutamate neurotransmission in the retina: absence of the aspartate/glutamate carrier produces reliance on glycolysis in glia. <i>Journal of Neurochemistry</i> , 2007, 101, 120-131.	2.1	65
21	Nrf2 as molecular target for polyphenols: A novel therapeutic strategy in diabetic retinopathy. <i>Critical Reviews in Clinical Laboratory Sciences</i> , 2016, 53, 293-312.	2.7	65
22	Platelet-derived growth factor mediates tight junction redistribution and increases permeability in MDCK cells. <i>Journal of Cellular Physiology</i> , 2002, 193, 349-364.	2.0	63
23	Review Paper: New Insights into the Pathophysiology of Diabetic Retinopathy: Potential Cell-Specific Therapeutic Targets. <i>Diabetes Technology and Therapeutics</i> , 2000, 2, 601-608.	2.4	62
24	Differential Roles of Hyperglycemia and Hypoinsulinemia in Diabetes Induced Retinal Cell Death: Evidence for Retinal Insulin Resistance. <i>PLoS ONE</i> , 2011, 6, e26498.	1.1	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	(α)Deprenyl Reduces Delayed Neuronal Death of Hippocampal Pyramidal Cells. <i>Neuroscience and Biobehavioral Reviews</i> , 1997, 21, 181-186.	2.9	44
27	The stress response protein REDD1 promotes diabetes-induced oxidative stress in the retina by Keap1-independent Nrf2 degradation. <i>Journal of Biological Chemistry</i> , 2020, 295, 7350-7361.	1.6	44
28	Histamine receptors in mammalian retinas. <i>Journal of Comparative Neurology</i> , 2006, 495, 658-667.	0.9	33
29	A multistep validation process of biomarkers for preclinical drug development. <i>Pharmacogenomics Journal</i> , 2010, 10, 385-395.	0.9	27
30	TRPC3 Activation by Erythropoietin Is Modulated by TRPC6. <i>Journal of Biological Chemistry</i> , 2009, 284, 4567-4581.	1.6	25
31	Amnesia induced by 2-Deoxygalactose in the day-old chick: lateralization of effects in two different one-trial learning tasks. <i>Behavioral and Neural Biology</i> , 1991, 56, 77-88.	2.3	21
32	Short-Term Administration of Astaxanthin Attenuates Retinal Changes in Diet-Induced Diabetic <i>Psammomys obesus</i> . <i>Current Eye Research</i> , 2018, 43, 1177-1189.	0.7	18
33	Chronic effects of monoamine oxidase-B inhibitors on the behaviour of aged mice. <i>Life Sciences</i> , 1993, 53, 739-747.	2.0	16
34	Glycoprotein Synthesis Is Necessary for Memory of Sickness-Induced Learning in Chicks. <i>European Journal of Neuroscience</i> , 1989, 1, 673-677.	1.2	15
35	Synthesis and structure-activity relationships of 2-amino-3-carboxy-4-phenylthiophenes as novel atypical protein kinase C inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 3034-3038.	1.0	13
36	JOBDI special edition- introduction. <i>Journal of Ocular Biology, Diseases, and Informatics</i> , 2011, 4, 1-2.	0.2	0