

David A Antonetti

List of Publications by Year in descending order

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108
papers

12,530
citations

50276

46
h-index

48315

88
g-index

112
all docs

112
docs citations

112
times ranked

10622
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure and function of the retina of low-density lipoprotein receptor-related protein 5 (Lrp5)-deficient rats. <i>Experimental Eye Research</i> , 2022, 217, 108977.	2.6	0
2	Current understanding of the molecular and cellular pathology of diabetic retinopathy. <i>Nature Reviews Endocrinology</i> , 2021, 17, 195-206.	9.6	213
3	Vascular Expression of Permeability-Resistant Occludin Mutant Preserves Visual Function in Diabetes. <i>Diabetes</i> , 2021, 70, 1549-1560.	0.6	13
4	Regulation of Adrenergic, Serotonin, and Dopamine Receptors to Inhibit Diabetic Retinopathy: Monotherapies versus Combination Therapies. <i>Molecular Pharmacology</i> , 2021, 100, 470-479.	2.3	6
5	Correlation of Retinal Structure and Visual Function Assessments in Mouse Diabetes Models. , 2021, 62, 20.		18
6	Inflammatory resolution and vascular barrier restoration after retinal ischemia reperfusion injury. <i>Journal of Neuroinflammation</i> , 2021, 18, 186.	7.2	36
7	The neuroscience of diabetic retinopathy. <i>Visual Neuroscience</i> , 2021, 38, E001.	1.0	6
8	Organ-On-A-Chip Technologies for Advanced Blood-Retinal Barrier Models. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2020, 36, 30-41.	1.4	23
9	All-trans-Retinaldehyde Contributes to Retinal Vascular Permeability in Ischemia Reperfusion. , 2020, 61, 8.		5
10	Targeting Neurovascular Interaction in Retinal Disorders. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1503.	4.1	26
11	Norrin restores blood-retinal barrier properties after vascular endothelial growth factor-induced permeability. <i>Journal of Biological Chemistry</i> , 2020, 295, 4647-4660.	3.4	28
12	Synthesis and structure-activity relationships of thieno[2,3-d]pyrimidines as atypical protein kinase C inhibitors to control retinal vascular permeability and cytokine-induced edema. <i>Bioorganic and Medicinal Chemistry</i> , 2020, 28, 115480.	3.0	1
13	Pathophysiology of Diabetic Retinopathy: Contribution and Limitations of Laboratory Research. <i>Ophthalmic Research</i> , 2019, 62, 196-202.	1.9	25
14	Tight Junctions in Cell Proliferation. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5972.	4.1	48
15	Tight junction protein occludin regulates progenitor Self-Renewal and survival in developing cortex. <i>ELife</i> , 2019, 8, .	6.0	27
16	Retinal pH and Acid Regulation During Metabolic Acidosis. <i>Current Eye Research</i> , 2018, 43, 902-912.	1.5	13
17	ELOVL4-Mediated Production of Very Long-Chain Ceramides Stabilizes Tight Junctions and Prevents Diabetes-Induced Retinal Vascular Permeability. <i>Diabetes</i> , 2018, 67, 769-781.	0.6	41
18	The EPAC-Rap1 pathway prevents and reverses cytokine-induced retinal vascular permeability. <i>Journal of Biological Chemistry</i> , 2018, 293, 717-730.	3.4	48

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19	Inhibition of Atypical Protein Kinase C Reduces Inflammation-Induced Retinal Vascular Permeability. <i>American Journal of Pathology</i> , 2018, 188, 2392-2405.	3.8	18
20	Brain endothelial cell junctions after cerebral hemorrhage: Changes, mechanisms and therapeutic targets. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 1255-1275.	4.3	123
21	The role of small GTPases and EPAC-Rap signaling in the regulation of the blood-brain and blood-retinal barriers. <i>Tissue Barriers</i> , 2017, 5, e1339768.	3.2	22
22	Cell autonomous sonic hedgehog signaling contributes to maintenance of retinal endothelial tight junctions. <i>Experimental Eye Research</i> , 2017, 164, 82-89.	2.6	4
23	The inner blood-retinal barrier: Cellular basis and development. <i>Vision Research</i> , 2017, 139, 123-137.	1.4	192
24	Protective Effect of a GLP-1 Analog on Ischemia-Reperfusion Induced Blood-Retinal Barrier Breakdown and Inflammation. , 2016, 57, 2584.		41
25	Moving Past Anti-VEGF: Novel Therapies for Treating Diabetic Retinopathy. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1498.	4.1	82
26	Occludin S471 Phosphorylation Contributes to Epithelial Monolayer Maturation. <i>Molecular and Cellular Biology</i> , 2016, 36, 2051-2066.	2.3	19
27	Occludin S490 Phosphorylation Regulates Vascular Endothelial Growth Factor-Induced Retinal Neovascularization. <i>American Journal of Pathology</i> , 2016, 186, 2486-2499.	3.8	37
28	Small Blood Vessels: Big Health Problems? Scientific Recommendations of the National Institutes of Health Workshop. <i>Journal of the American Heart Association</i> , 2016, 5, .	3.7	67
29	Algorithm for the Measure of Vitreous Hyperreflective Foci in Optical Coherence Tomographic Scans of Patients With Diabetic Macular Edema. <i>JAMA Ophthalmology</i> , 2016, 134, 15.	2.5	26
30	Adrenergic and serotonin receptors affect retinal superoxide generation in diabetic mice: relationship to capillary degeneration and permeability. <i>FASEB Journal</i> , 2015, 29, 2194-2204.	0.5	45
31	Retinylamine Benefits Early Diabetic Retinopathy in Mice. <i>Journal of Biological Chemistry</i> , 2015, 290, 21568-21579.	3.4	44
32	Ischemia-Reperfusion Injury Induces Occludin Phosphorylation/Ubiquitination and Retinal Vascular Permeability in a VEGFR-2-Dependent Manner. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 522-531.	4.3	78
33	Mechanism of metabolic stroke and spontaneous cerebral hemorrhage in glutaric aciduria type I. <i>Acta Neuropathologica Communications</i> , 2014, 2, 13.	5.2	28
34	Ocular Anti-VEGF Therapy for Diabetic Retinopathy: The Role of VEGF in the Pathogenesis of Diabetic Retinopathy. <i>Diabetes Care</i> , 2014, 37, 893-899.	8.6	198
35	Minocycline prevents retinal inflammation and vascular permeability following ischemia-reperfusion injury. <i>Journal of Neuroinflammation</i> , 2013, 10, 149.	7.2	104
36	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.	2.2	13

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37	Using the Past to Inform the Future: Anti-VEGF Therapy as a Road Map to Develop Novel Therapies for Diabetic Retinopathy. <i>Diabetes</i> , 2013, 62, 1808-1815.	0.6	48
38	Glucocorticoid Induction of Occludin Expression and Endothelial Barrier Requires Transcription Factor p54 NONO. , 2013, 54, 4007.		34
39	Polychromatic Angiography for the Assessment of VEGF-Induced BRB Dysfunction in the Rabbit Retina. , 2013, 54, 5550.		3
40	A Role for Systemic Inflammation in Diabetic Retinopathy. , 2013, 54, 2384.		15
41	High Glucose Attenuates Shear-Induced Changes in Endothelial Hydraulic Conductivity by Degrading the Glycocalyx. <i>PLoS ONE</i> , 2013, 8, e78954.	2.5	49
42	Novel atypical PKC inhibitors prevent vascular endothelial growth factor-induced bloodâ€“retinal barrier dysfunction. <i>Biochemical Journal</i> , 2012, 446, 455-467.	3.7	60
43	Occludin Is a Direct Target of Thyroid Transcription Factor-1 (TTF-1/NKX2â€“1). <i>Journal of Biological Chemistry</i> , 2012, 287, 28790-28801.	3.4	43
44	Protein Kinase CÎ² Phosphorylates Occludin Regulating Tight Junction Trafficking in Vascular Endothelial Growth Factorâ€“Induced Permeability In Vivo. <i>Diabetes</i> , 2012, 61, 1573-1583.	0.6	133
45	The occludin and ZO-1 complex, defined by small angle X-ray scattering and NMR, has implications for modulating tight junction permeability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 10855-10860.	7.1	46
46	Diabetic Retinopathy. <i>New England Journal of Medicine</i> , 2012, 366, 1227-1239.	27.0	1,363
47	Molecular Regulation of Endothelial Cell Tight Junctions and the Blood-Retinal Barrier. , 2012, , 123-141.		0
48	Occludin Localizes to Centrosomes and Modifies Mitotic Entry*. <i>Journal of Biological Chemistry</i> , 2011, 286, 30847-30858.	3.4	33
49	The Blood-Retinal Barrier: Structure and Functional Significance. <i>Methods in Molecular Biology</i> , 2011, 686, 133-148.	0.9	131
50	Placenta Growth Factor-1 Exerts Time-Dependent Stabilization of Adherens Junctions Following VEGF-Induced Vascular Permeability. <i>PLoS ONE</i> , 2011, 6, e18076.	2.5	35
51	Alterations to the Bloodâ€“Retinal Barrier in Diabetes: Cytokines and Reactive Oxygen Species. <i>Antioxidants and Redox Signaling</i> , 2011, 15, 1271-1284.	5.4	114
52	A Three-Pore Model Describes Transport Properties of Bovine Retinal Endothelial Cells in Normal and Elevated Glucose. , 2011, 52, 1171.		12
53	Effects of Ischemic Preconditioning and Bevacizumab on Apoptosis and Vascular Permeability Following Retinal Ischemiaâ€“Reperfusion Injury. , 2010, 51, 5920.		70
54	Ablation of 4E-BP1/2 Prevents Hyperglycemia-Mediated Induction of VEGF Expression in the Rodent Retina and in Müller Cells in Culture. <i>Diabetes</i> , 2010, 59, 2107-2116.	0.6	41

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55	A multistep validation process of biomarkers for preclinical drug development. <i>Pharmacogenomics Journal</i> , 2010, 10, 385-395.	2.0	27
56	TNF- α Signals Through PKC ζ /NF- κ B to Alter the Tight Junction Complex and Increase Retinal Endothelial Cell Permeability. <i>Diabetes</i> , 2010, 59, 2872-2882.	0.6	343
57	Occludin Phosphorylation and Ubiquitination Regulate Tight Junction Trafficking and Vascular Endothelial Growth Factor-induced Permeability. <i>Journal of Biological Chemistry</i> , 2009, 284, 21036-21046.	3.4	301
58	Efficacy of interleukin-13 receptor α -targeted liposomal doxorubicin in the intracranial brain tumor model. <i>Molecular Cancer Therapeutics</i> , 2009, 8, 648-654.	4.1	110
59	Eye vessels saved by rescuing their pericyte partners. <i>Nature Medicine</i> , 2009, 15, 1248-1249.	30.7	15
60	Identification and Analysis of Occludin Phosphosites: A Combined Mass Spectrometry and Bioinformatics Approach. <i>Journal of Proteome Research</i> , 2009, 8, 808-817.	3.7	66
61	Phosphorylation Site Mapping of Endogenous Proteins: A Combined MS and Bioinformatics Approach. <i>Journal of Proteome Research</i> , 2009, 8, 798-807.	3.7	10
62	Phosphorylation of the Tight Junction Protein Occludin on Ser490 Regulates Barrier Function and Contributes to Growth Control. <i>FASEB Journal</i> , 2009, 23, 996.2.	0.5	0
63	Novel potential mechanisms for diabetic macular edema: Leveraging new investigational approaches. <i>Current Diabetes Reports</i> , 2008, 8, 263-269.	4.2	37
64	Whole genome assessment of the retinal response to diabetes reveals a progressive neurovascular inflammatory response. <i>BMC Medical Genomics</i> , 2008, 1, 26.	1.5	98
65	Glucocorticoids induce transactivation of tight junction genes occludin and claudin-5 in retinal endothelial cells via a novel cis-element. <i>Experimental Eye Research</i> , 2008, 86, 867-878.	2.6	81
66	Occludin Independently Regulates Permeability under Hydrostatic Pressure and Cell Division in Retinal Pigment Epithelial Cells. , 2008, 49, 2568.		33
67	Vascular Permeability in Diabetic Retinopathy. , 2008, , 333-352.		4
68	A prize catch for diabetic retinopathy. <i>Nature Medicine</i> , 2007, 13, 131-132.	30.7	22
69	Vascular permeability in ocular disease and the role of tight junctions. <i>Angiogenesis</i> , 2007, 10, 103-117.	7.2	166
70	Blood Retinal Barrier. , 2007, , 139-166.		4
71	Ruboxistaurin for Diabetic Retinopathy. <i>Ophthalmology</i> , 2006, 113, 2135-2136.	5.2	10
72	VEGF Activation of Protein Kinase C Stimulates Occludin Phosphorylation and Contributes to Endothelial Permeability. , 2006, 47, 5106.		215

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73	Pharmacologic Manipulation of Sphingosine Kinase in Retinal Endothelial Cells: Implications for Angiogenic Ocular Diseases. , 2006, 47, 5022.		65
74	A diet-induced mouse model for glutaric aciduria type I. Brain, 2006, 129, 899-910.	7.6	106
75	New insights for glutaric aciduria type I. Brain, 2006, 129, e55-e55.	7.6	6
76	Diabetes Reduces Basal Retinal Insulin Receptor Signaling: Reversal With Systemic and Local Insulin. Diabetes, 2006, 55, 1148-1156.	0.6	164
77	Diabetic Retinopathy. Diabetes, 2006, 55, 2401-2411.	0.6	673
78	Shear Stress Regulates HUVEC Hydraulic Conductivity by Occludin Phosphorylation. Annals of Biomedical Engineering, 2005, 33, 1536-1545.	2.5	32
79	The Ins2 ^{AKITA} Mouse as a Model of Early Retinal Complications in Diabetes. , 2005, 46, 2210.		442
80	Glucocorticoid Regulation of Endothelial Cell Tight Junction Gene Expression: Novel Treatments for Diabetic Retinopathy. Current Eye Research, 2005, 30, 949-957.	1.5	102
81	Evaluation of the role of P-glycoprotein in the uptake of paroxetine, clozapine, phenytoin and carbamazepine by bovine retinal endothelial cells. Neuropharmacology, 2005, 49, 610-617.	4.1	86
82	Insulin Promotes Rat Retinal Neuronal Cell Survival in a p70S6K-dependent Manner. Journal of Biological Chemistry, 2004, 279, 9167-9175.	3.4	74
83	VEGF increases paracellular transport without altering the solvent-drag reflection coefficient. Microvascular Research, 2004, 68, 295-302.	2.5	17
84	Regulation of tight junctions and loss of barrier function in pathophysiology. International Journal of Biochemistry and Cell Biology, 2004, 36, 1206-1237.	2.8	467
85	A transmural pressure gradient induces mechanical and biological adaptive responses in endothelial cells. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 286, H731-H741.	3.2	48
86	Isolation and Characterization of Retinal Endothelial Cells. , 2003, 89, 365-374.		25
87	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
88	Mapping the Blood Vessels with Paracellular Permeability in the Retinas of Diabetic Rats. , 2003, 44, 5410.		98
89	Diabetic Retinopathy. Survey of Ophthalmology, 2002, 47, S253-S262.	4.0	499
90	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

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91	Hydrocortisone decreases retinal endothelial cell water and solute flux coincident with increased content and decreased phosphorylation of occludin. <i>Journal of Neurochemistry</i> , 2002, 80, 667-677.	3.9	257
92	New Insights into the Molecular Mechanisms of Vascular Permeability in Diabetes. , 2002, , 23-33.		0
93	Shear stress regulates occludin content and phosphorylation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001, 281, H105-H113.	3.2	106
94	Excessive Hexosamines Block the Neuroprotective Effect of Insulin and Induce Apoptosis in Retinal Neurons. <i>Journal of Biological Chemistry</i> , 2001, 276, 43748-43755.	3.4	162
95	Insulin Rescues Retinal Neurons from Apoptosis by a Phosphatidylinositol 3-Kinase/Akt-mediated Mechanism That Reduces the Activation of Caspase-3. <i>Journal of Biological Chemistry</i> , 2001, 276, 32814-32821.	3.4	279
96	Retinal neurodegeneration: early pathology in diabetes. <i>Clinical and Experimental Ophthalmology</i> , 2000, 28, 3-8.	2.6	313
97	Diabetes Reduces Glutamate Oxidation and Glutamine Synthesis in the Retina. <i>Experimental Eye Research</i> , 2000, 70, 723-730.	2.6	163
98	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.	4.4	62
99	The molecular structure and function of the inner blood-retinal barrier. , 2000, , 25-33.		0
100	Leucine, Glutamine, and Tyrosine Reciprocally Modulate the Translation Initiation Factors eIF4F and eIF2B in Perfused Rat Liver. <i>Journal of Biological Chemistry</i> , 1999, 274, 36168-36175.	3.4	29
101	Vascular Endothelial Growth Factor Induces Rapid Phosphorylation of Tight Junction Proteins Occludin and Zonula Occludin 1. <i>Journal of Biological Chemistry</i> , 1999, 274, 23463-23467.	3.4	575
102	Molecular Mechanisms of Vascular Permeability in Diabetic Retinopathy. <i>Seminars in Ophthalmology</i> , 1999, 14, 240-248.	1.6	202
103	The molecular structure and function of the inner blood-retinal barrier. Penn State Retina Research Group. <i>Documenta Ophthalmologica</i> , 1999, 97, 229-237.	2.2	64
104	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.. <i>Diabetes</i> , 1998, 47, 1953-1959.	0.6	547
105	Neural apoptosis in the retina during experimental and human diabetes. Early onset and effect of insulin.. <i>Journal of Clinical Investigation</i> , 1998, 102, 783-791.	8.2	1,090
106	Insulin Receptor Substrate Proteins Create a Link between the Tyrosine Phosphorylation Cascade and the Ca ²⁺ -ATPases in Muscle and Heart. <i>Journal of Biological Chemistry</i> , 1997, 272, 23696-23702.	3.4	70
107	Rad, a Novel Ras-related GTPase, Interacts with Skeletal Muscle β -Tropomyosin. <i>Journal of Biological Chemistry</i> , 1996, 271, 768-773.	3.4	48
108	P-124: Novel interactions of IRS-1 in human skeletal muscle. <i>Experimental and Clinical Endocrinology and Diabetes</i> , 1996, 104, 145-146.	1.2	3