Richard C Austin

List of Publications by Year
in descending order

106 papers	7,595 citations	53794 45 h-index	53230 85 g-index
108 all docs	108 docs citations	108 times ranked	10350 citing authors

#	Article	IF	Citations
1	Pleckstrin Homology-Like Domain, Family A, Member 1 (PHLDA1): A Multifaceted Cell Survival Factor that Drives Metabolic Disease. Engineering, 2023, 20, 9-18.	6.7	1
2	Caffeine blocks SREBP2-induced hepatic PCSK9 expression to enhance LDLR-mediated cholesterol clearance. Nature Communications, 2022, 13, 770.	12.8	47
3	The Emerging Roles of Intracellular PCSK9 and Their Implications in Endoplasmic Reticulum Stress and Metabolic Diseases. Metabolites, 2022, 12, 215.	2.9	10
4	Inhibitory Antibodies against PCSK9 Reduce Surface CD36 and Mitigate Diet-Induced Renal Lipotoxicity. Kidney360, 2022, 3, 1394-1410.	2.1	10
5	Scratching the Surfaceâ€"An Overview of the Roles of Cell Surface GRP78 in Cancer. Biomedicines, 2022, 10, 1098.	3.2	7
6	The loss-of-function PCSK9Q152H variant increases ER chaperones GRP78 and GRP94 and protects against liver injury. Journal of Clinical Investigation, 2021, 131, .	8.2	29
7	Glucoseâ€regulated protein (<scp>GRP78</scp>) is an important cell surface receptor for viral invasion, cancers, and neurological disorders. IUBMB Life, 2021, 73, 843-854.	3.4	47
8	Asialoglycoprotein receptor 1 is a novel PCSK9-independent ligand of liver LDLR cleaved by furin. Journal of Biological Chemistry, 2021, 297, 101177.	3.4	15
9	Salsalate reduces atherosclerosis through AMPKÎ²1 in mice. Molecular Metabolism, 2021, 53, 101321.	6.5	8
10	Calcium as a reliable marker for the quantitative assessment of endoplasmic reticulum stress in live cells. Journal of Biological Chemistry, 2021, 296, 100779.	3.4	24
11	TDAG51 induces renal interstitial fibrosis through modulation of TGF-Î² receptor 1 in chronic kidney disease. Cell Death and Disease, 2021, 12, 921.	6.3	10
12	Interstitial Cell Remodeling Promotes Aberrant Adipogenesis in Dystrophic Muscles. Cell Reports, 2020, 31, 107597.	6.4	64
13	Gene expression and in situ protein profiling of candidate SARS-CoV-2 receptors in human airway epithelial cells and lung tissue. European Respiratory Journal, 2020, 56, 2001123.	6.7	138
14	TDAG51 (T-Cell Death-Associated Gene 51) Is a Key Modulator of Vascular Calcification and Osteogenic Transdifferentiation of Arterial Smooth Muscle Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, 1664-1679.	2.4	5
15	GDF10 blocks hepatic PPARÎ³ activation to protect against diet-induced liver injury. Molecular Metabolism, 2019, 27, 62-74.	6.5	17
16	The trypan blue cellular debris assay: a novel low-cost method for the rapid quantification of cell death. MethodsX, 2019, 6, 1174-1180.	1.6	15
17	Diet-induced hepatic steatosis abrogates cell-surface LDLR by inducing de novo PCSK9 expression in mice. Journal of Biological Chemistry, 2019, 294, 9037-9047.	3.4	40
18	Cell surface expression of 78-kDa glucose-regulated protein (GRP78) mediates diabetic nephropathy. Journal of Biological Chemistry, 2019, 294, 7755-7768.	3.4	31

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19	4â€Phenylbutyrate protects against atherosclerotic lesion growth by increasing the expression of HSP25 in macrophages and in the circulation of Apoe ^{â^'/â^'} mice. FASEB Journal, 2019, 33, 8406-8422.	0.5	16
20	Pcsk9 knockout exacerbates diet-induced non-alcoholic steatohepatitis, fibrosis and liver injury in mice. JHEP Reports, 2019, 1, 418-429.	4.9	51
21	GRP78 (Glucose-Regulated Protein of 78 kDa) Promotes Cardiomyocyte Growth Through Activation of GATA4 (GATA-Binding Protein 4). Hypertension, 2019, 73, 390-398.	2.7	18
22	Endoplasmic Reticulum Chaperone GRP78 Protects Heart From Ischemia/Reperfusion Injury Through Akt Activation. Circulation Research, 2018, 122, 1545-1554.	4.5	113
23	Separate roles of <scp>IL</scp>â€6 and oncostatin M in mouse macrophage polarization in vitro and in vivo. Immunology and Cell Biology, 2018, 96, 257-272.	2.3	26
24	The Pleckstrin homology like domain family member, TDAG51, is temporally regulated during skeletal muscle regeneration. Biochemical and Biophysical Research Communications, 2018, 495, 499-505.	2.1	2
25	Pharmacologic inhibition of S1P attenuates ATF6 expression, causes ER stress and contributes to apoptotic cell death. Toxicology and Applied Pharmacology, 2018, 349, 1-7.	2.8	23
26	Loss-of-function PCSK9 mutants evade the unfolded protein response sensor GRP78 and fail to induce endoplasmic reticulum stress when retained. Journal of Biological Chemistry, 2018, 293, 7329-7343.	3.4	29
27	Rosuvastatin Reduces Aortic Sinus and Coronary Artery Atherosclerosis in SR-B1 (Scavenger Receptor) Tj ETQq1 1 0.784314 rgBT /Ov Lowering. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, 26-39.	2.4	24
28	Thrombotic characteristics of extracellular vesicles derived from prostate cancer cells. Prostate, 2018, 78, 953-961.	2.3	13
29	MAPping the kinase landscape of macrophage activation. Journal of Biological Chemistry, 2018, 293, 9910-9911.	3.4	3
30	Sialidase down-regulation reduces non-HDL cholesterol, inhibits leukocyte transmigration, and attenuates atherosclerosis in ApoE knockout mice. Journal of Biological Chemistry, 2018, 293, 14689-14706.	3.4	42
31	Anti-GRP78 autoantibodies induce endothelial cell activation and accelerate the development of atherosclerotic lesions. JCI Insight, 2018, 3, .	5.0	31
32	PCSK9 REDUCES HEPATIC LIPID CONTENT AND CONFERS PROTECTION AGAINST ER STRESS AND ROS IN HEPG2 CELLS. FASEB Journal, 2018, 32, 539.8.	0.5	0
33	Endoplasmic Reticulum Stress and Ca2+ Depletion Differentially Modulate the Sterol Regulatory Protein PCSK9 to Control Lipid Metabolism. Journal of Biological Chemistry, 2017, 292, 1510-1523.	3.4	31
34	Endoplasmic reticulum protein ERp46 in prostate adenocarcinoma. Oncology Letters, 2017, 13, 3624-3630.	1.8	6
35	Autoantibodies against the cell surfaceâ€"associated chaperone GRP78 stimulate tumor growth via tissue factor. Journal of Biological Chemistry, 2017, 292, 21180-21192.	3.4	17
36	Liver-specific ATP-citrate lyase inhibition by bempedoic acid decreases LDL-C and attenuates atherosclerosis. Nature Communications, 2016, 7, 13457.	12.8	296

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37	Characterization of Proliferating Lesionâ€Resident Cells During All Stages of Atherosclerotic Growth. Journal of the American Heart Association, 2016, 5, .	3.7	28
38	GRP78 and CHOP modulate macrophage apoptosis and the development of bleomycin-induced pulmonary fibrosis. Journal of Pathology, 2016, 239, 411-425.	4.5	96
39	Salicylate improves macrophage cholesterol homeostasis via activation of Ampk. Journal of Lipid Research, 2015, 56, 1025-1033.	4.2	55
40	Underactivation of the adiponectinâ€“adiponectin receptor 1 axis in clear cell renal cell carcinoma: implications for progression. Clinical and Experimental Metastasis, 2014, 31, 169-183.	3.3	13
41	Endoplasmic Reticulum Protein ERp46 in Renal Cell Carcinoma. PLoS ONE, 2014, 9, e90389.	2.5	7
42	Decreased Endogenous Production of Hydrogen Sulfide Accelerates Atherosclerosis. Circulation, 2013, 127, 2523-2534.	1.6	322
43	Loss of TDAG51 Results in Mature-Onset Obesity, Hepatic Steatosis, and Insulin Resistance by Regulating Lipogenesis. Diabetes, 2013, 62, 158-169.	0.6	34
44	Deficiency of TDAG51 Protects Against Atherosclerosis by Modulating Apoptosis, Cholesterol Efflux, and Peroxiredoxinâ€1 Expression. Journal of the American Heart Association, 2013, 2, e000134.	3.7	27
45	Regulation of the Tumor Suppressor PTEN through Exosomes: A Diagnostic Potential for Prostate Cancer. PLoS ONE, 2013, 8, e70047.	2.5	106
46	Endoplasmic Reticulum Stress and the Unfolded Protein Response in Lipid Metabolism and Obesity. , 2012, , 231-256.		1
47	ER stress contributes to renal proximal tubule injury by increasing SREBP-2-mediated lipid accumulation and apoptotic cell death. American Journal of Physiology - Renal Physiology, 2012, 303, F266-F278.	2.7	59
48	Cystathionine Protects against Endoplasmic Reticulum Stress-induced Lipid Accumulation, Tissue Injury, and Apoptotic Cell Death. Journal of Biological Chemistry, 2012, 287, 31994-32005.	3.4	51
49	TDAG51 mediates epithelial-to-mesenchymal transition in human proximal tubular epithelium. American Journal of Physiology - Renal Physiology, 2012, 303, F467-F481.	2.7	52
50	Integrated Stress Response Modulates Cellular Redox State via Induction of Cystathionine Î³-Lyase. Journal of Biological Chemistry, 2012, 287, 7603-7614.	3.4	100
51	TDAG51 overexpression mediates proximal tubule epithelial cell apoptosis through its accumulation in the nucleus. FASEB Journal, 2012, 26, 798.7.	0.5	0
52	Endoplasmic reticulum stress and lipid dysregulation. Expert Reviews in Molecular Medicine, 2011, 13, e4.	3.9	79
53	Immunohistochemical Detection of the Unfolded Protein Response in Atherosclerotic Plaques. Methods in Enzymology, 2011, 489, 23-46.	1.0	17
54	Induction of the unfolded protein response after monocyte to macrophage differentiation augments cell survival in early atherosclerotic lesions. FASEB Journal, 2011, 25, 576-589.	0.5	42

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55	Interrelationship Between Cardiac Hypertrophy, Heart Failure, and Chronic Kidney Disease. Circulation Research, 2011, 108, 629-642.	4.5	196
56	Hydrogen sulfide in the pathogenesis of atherosclerosis and its therapeutic potential. Expert Review of Clinical Pharmacology, 2011, 4, 97-108.	3.1	50
57	ER Stressâ€induced SREBPâ€2 Activation Contributes to Lipid Accumulation in Tubular Nephrotoxicity. FASEB Journal, 2011, 25, 1002.8.	0.5	0
58	The small molecule chemical chaperone 4â€Phenylbutyrate inhibits epithelialâ€toâ€mesenchymal transition in human renal proximal tubular epithelial cells. FASEB Journal, 2011, 25, .	0.5	0
59	Development of a continuous assay for the measurement of tissue factor procoagulant activity on intact cells. Laboratory Investigation, 2010, 90, 953-962.	3.7	10
60	Binding of Anti-GRP78 Autoantibodies to Cell Surface GRP78 Increases Tissue Factor Procoagulant Activity via the Release of Calcium from Endoplasmic Reticulum Stores. Journal of Biological Chemistry, 2010, 285, 28912-28923.	3.4	39
61	Mouse models of cystathionine Î²â€synthase deficiency reveal significant threshold effects of hyperhomocysteinemia. FASEB Journal, 2009, 23, 883-893.	0.5	96
62	The methylenetetrahydrofolate reductase C677T mutation induces cellâ€specific changes in genomic DNA methylation and uracil misincorporation: A possible molecular basis for the siteâ€specific cancer risk modification. International Journal of Cancer, 2009, 124, 1999-2005.	5.1	80
63	Contributions of hyperhomocysteinemia to atherosclerosis: Causal relationship and potential mechanisms. BioFactors, 2009, 35, 120-129.	5.4	111
64	The chemical chaperone 4-phenylbutyrate inhibits adipogenesis by modulating the unfolded protein response. Journal of Lipid Research, 2009, 50, 2486-2501.	4.2	198
65	The Unfolded Protein Response in Health and Disease. Antioxidants and Redox Signaling, 2009, 11, 2279-2287.	5.4	87
66	Intracellular localization of TDAG51 modulates its effect on cell death. FASEB Journal, 2009, 23, 618.3.	0.5	0
67	Immunohistochemical detection of N-homocysteinylated proteins in humans and mice. Biomedicine and Pharmacotherapy, 2008, 62, 473-479.	5.6	55
68	ER Stress and Lipogenesis: A Slippery Slope toward Hepatic Steatosis. Developmental Cell, 2008, 15, 795-796.	7.0	43
69	Macrophage Function and Its Impact on Atherosclerotic Lesion Composition, Progression, and Stability. Arteriosclerosis, Thrombosis, and Vascular Biology, 2008, 28, 1413-1415.	2.4	50
70	Hyperhomocysteinemia induced by methionine supplementation does not independently cause atherosclerosis in C57BL/6J mice. FASEB Journal, 2008, 22, 2569-2578.	0.5	44
71	Novel Function of PERK as a Mediator of Force-induced Apoptosis. Journal of Biological Chemistry, 2008, 283, 23462-23472.	3.4	27
72	Homocysteinylation of Metallothionein Impairs Intracellular Redox Homeostasis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2007, 27, 8-11.	2.4	16

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73	Increased Endoplasmic Reticulum Stress in Atherosclerotic Plaques Associated With Acute Coronary Syndrome. Circulation, 2007, 116, 1214-1216.	1.6	30
74	Prothrombotic Effects of Hyperhomocysteinemia and Hypercholesterolemia in ApoE-Deficient Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2007, 27, 233-240.	2.4	43
75	Endoplasmic reticulum stress causes the activation of sterol regulatory element binding protein-2. International Journal of Biochemistry and Cell Biology, 2007, 39, 1843-1851.	2.8	163
76	Role of Endoplasmic Reticulum Calcium Disequilibria in the Mechanism of Homocysteine-Induced ER Stress. Antioxidants and Redox Signaling, 2007, 9, 1863-1874.	5.4	45
77	Proteasomal Regulation of Cardiac Hypertrophy. Circulation, 2006, 114, 1796-1798.	1.6	9
78	Deficiency in TDAG51 Decreases Atherosclerotic Lesion Development in ApoE-Deficient Mice.. Blood, 2006, 108, 3940-3940.	1.4	0
79	TDAG51 Deficiency Promotes Migration and Proliferation of Mouse Embryonic Fibroblasts.. Blood, 2006, 108, 3941-3941.	1.4	0
80	Glucosamine-Induced Endoplasmic Reticulum Stress Promotes ApoB100 Degradation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2005, 25, 571-577.	2.4	69
81	Getting a GRP on Tissue Factor Activation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2005, 25, 1529-1531.	2.4	8
82	Valproate protects cells from ER stress-induced lipid accumulation and apoptosis by inhibiting glycogen synthase kinase-3. Journal of Cell Science, 2005, 118, 89-99.	2.0	226
83	Peroxynitrite Causes Endoplasmic Reticulum Stress and Apoptosis in Human Vascular Endothelium. Arteriosclerosis, Thrombosis, and Vascular Biology, 2005, 25, 2623-2629.	2.4	189
84	Activation of the Unfolded Protein Response Occurs at All Stages of Atherosclerotic Lesion Development in Apolipoprotein Eâ€“Deficient Mice. Circulation, 2005, 111, 1814-1821.	1.6	270
85	Association of Multiple Cellular Stress Pathways With Accelerated Atherosclerosis in Hyperhomocysteinemic Apolipoprotein E-Deficient Mice. Circulation, 2004, 110, 207-213.	1.6	193
86	Activation of mesangial cell MAPK in responseto homocysteine. Kidney International, 2004, 66, 733-745.	5.2	42
87	Hyperhomocysteinemia and its role in the development of atherosclerosis. Clinical Biochemistry, 2003, 36, 431-441.	1.9	177
88	Effects of vitamin supplementation and hyperhomocysteinemia on atherosclerosis in apoE-deficient mice. Atherosclerosis, 2003, 168, 255-262.	0.8	69
89	Endoplasmic Reticulum Chaperone Protein GRP78 Protects Cells from Apoptosis Induced by Topoisomerase Inhibitors. Journal of Biological Chemistry, 2003, 278, 20915-20924.	3.4	639
90	Endoplasmic Reticulum Stress Induces Hyaluronan Deposition and Leukocyte Adhesion. Journal of Biological Chemistry, 2003, 278, 47223-47231.	3.4	132

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91	TDAG51 Is Induced by Homocysteine, Promotes Detachment-mediated Programmed Cell Death, and Contributes to the Development of Atherosclerosis in Hyperhomocysteinemia. Journal of Biological Chemistry, 2003, 278, 30317-30327.	3.4	203
92	Overexpression of the 78-kDa Glucose-regulated Protein/Immunoglobulin-binding Protein (GRP78/BiP) Inhibits Tissue Factor Procoagulant Activity. Journal of Biological Chemistry, 2003, 278, 17438-17447.	3.4	55
93	A Novel Approach to Tumor Suppression with Microencapsulated Recombinant Cells. Human Gene Therapy, 2002, 13, 1157-1166.	2.7	67
94	Vimentin Exposed on Activated Platelets and Platelet Microparticles Localizes Vitronectin and Plasminogen Activator Inhibitor Complexes on Their Surface. Journal of Biological Chemistry, 2002, 277, 7529-7539.	3.4	108
95	Identification of Dp71 Isoforms in the Platelet Membrane Cytoskeleton. Journal of Biological Chemistry, 2002, 277, 47106-47113.	3.4	26
96	Homocysteine-induced endoplasmic reticulum stress causes dysregulation of the cholesterol and triglyceride biosynthetic pathways. Journal of Clinical Investigation, 2001, 107, 1263-1273.	8.2	619
97	Dietary Supplementation With Methionine and Homocysteine Promotes Early Atherosclerosis but Not Plaque Rupture in ApoE-Deficient Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2001, 21, 1470-1476.	2.4	190
98	Placental Transforming Growth Factor-Î² Is a Downstream Mediator of the Growth Arrest and Apoptotic Response of Tumor Cells to DNA Damage and p53 Overexpression. Journal of Biological Chemistry, 2000, 275, 20127-20135.	3.4	232
99	Expression and synthesis of alternatively spliced variants of Dp71 in adult human brain. Neuromuscular Disorders, 2000, 10, 187-193.	0.6	52
100	Comparison of Heparin- and Dermatan Sulfate-mediated Catalysis of Thrombin Inactivation by Heparin Cofactor II. Journal of Biological Chemistry, 1999, 274, 27597-27604.	3.4	49
101	Dystrophin isoforms Dp71 and Dp427 have distinct roles in myogenic cells. , 1999, 22, 16-27.		32
102	Localization of the Thrombin-binding Domain on Prothrombin Fragment 2. Journal of Biological Chemistry, 1998, 273, 8932-8939.	3.4	29
103	Homocysteine-dependent Alterations in Mitochondrial Gene Expression, Function and Structure. Journal of Biological Chemistry, 1998, 273, 30808-30817.	3.4	69
104	Dexamethasone-induced suppression of apoptosis in human neutrophils requires continuous stimulation of new protein synthesis. Journal of Leukocyte Biology, 1997, 61, 224-230.	3.3	78
105	Site-directed mutagenesis of alanine-382 of human antithrombin III. FEBS Letters, 1991, 280, 254-258.	2.8	9
106	The Molecular Pathology of Inherited Human Antithrombin III Deficiency. Transfusion Medicine Reviews, 1989, 3, 264-281.	2.0	22