

Richard C Austin

List of Publications by Year in descending order

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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	Endoplasmic Reticulum Chaperone Protein GRP78 Protects Cells from Apoptosis Induced by Topoisomerase Inhibitors. <i>Journal of Biological Chemistry</i> , 2003, 278, 20915-20924.	3.4	639
2	Homocysteine-induced endoplasmic reticulum stress causes dysregulation of the cholesterol and triglyceride biosynthetic pathways. <i>Journal of Clinical Investigation</i> , 2001, 107, 1263-1273.	8.2	619
3	Decreased Endogenous Production of Hydrogen Sulfide Accelerates Atherosclerosis. <i>Circulation</i> , 2013, 127, 2523-2534.	1.6	322
4	Liver-specific ATP-citrate lyase inhibition by bempedoic acid decreases LDL-C and attenuates atherosclerosis. <i>Nature Communications</i> , 2016, 7, 13457.	12.8	296
5	Activation of the Unfolded Protein Response Occurs at All Stages of Atherosclerotic Lesion Development in Apolipoprotein E-Deficient Mice. <i>Circulation</i> , 2005, 111, 1814-1821.	1.6	270
6	Placental Transforming Growth Factor- β 2 Is a Downstream Mediator of the Growth Arrest and Apoptotic Response of Tumor Cells to DNA Damage and p53 Overexpression. <i>Journal of Biological Chemistry</i> , 2000, 275, 20127-20135.	3.4	232
7	Valproate protects cells from ER stress-induced lipid accumulation and apoptosis by inhibiting glycogen synthase kinase-3. <i>Journal of Cell Science</i> , 2005, 118, 89-99.	2.0	226
8	TDAG51 Is Induced by Homocysteine, Promotes Detachment-mediated Programmed Cell Death, and Contributes to the Development of Atherosclerosis in Hyperhomocysteinemia. <i>Journal of Biological Chemistry</i> , 2003, 278, 30317-30327.	3.4	203
9	The chemical chaperone 4-phenylbutyrate inhibits adipogenesis by modulating the unfolded protein response. <i>Journal of Lipid Research</i> , 2009, 50, 2486-2501.	4.2	198
10	Interrelationship Between Cardiac Hypertrophy, Heart Failure, and Chronic Kidney Disease. <i>Circulation Research</i> , 2011, 108, 629-642.	4.5	196
11	Association of Multiple Cellular Stress Pathways With Accelerated Atherosclerosis in Hyperhomocysteinemic Apolipoprotein E-Deficient Mice. <i>Circulation</i> , 2004, 110, 207-213.	1.6	193
12	Dietary Supplementation With Methionine and Homocysteine Promotes Early Atherosclerosis but Not Plaque Rupture in ApoE-Deficient Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2001, 21, 1470-1476.	2.4	190
13	Peroxynitrite Causes Endoplasmic Reticulum Stress and Apoptosis in Human Vascular Endothelium. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2005, 25, 2623-2629.	2.4	189
14	Hyperhomocysteinemia and its role in the development of atherosclerosis. <i>Clinical Biochemistry</i> , 2003, 36, 431-441.	1.9	177
15	Endoplasmic reticulum stress causes the activation of sterol regulatory element binding protein-2. <i>International Journal of Biochemistry and Cell Biology</i> , 2007, 39, 1843-1851.	2.8	163
16	Gene expression and <i>in situ</i> protein profiling of candidate SARS-CoV-2 receptors in human airway epithelial cells and lung tissue. <i>European Respiratory Journal</i> , 2020, 56, 2001123.	6.7	138
17	Endoplasmic Reticulum Stress Induces Hyaluronan Deposition and Leukocyte Adhesion. <i>Journal of Biological Chemistry</i> , 2003, 278, 47223-47231.	3.4	132
18	Endoplasmic Reticulum Chaperone GRP78 Protects Heart From Ischemia/Reperfusion Injury Through Akt Activation. <i>Circulation Research</i> , 2018, 122, 1545-1554.	4.5	113

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19	Contributions of hyperhomocysteinemia to atherosclerosis: Causal relationship and potential mechanisms. <i>BioFactors</i> , 2009, 35, 120-129.	5.4	111
20	Vimentin Exposed on Activated Platelets and Platelet Microparticles Localizes Vitronectin and Plasminogen Activator Inhibitor Complexes on Their Surface. <i>Journal of Biological Chemistry</i> , 2002, 277, 7529-7539.	3.4	108
21	Regulation of the Tumor Suppressor PTEN through Exosomes: A Diagnostic Potential for Prostate Cancer. <i>PLoS ONE</i> , 2013, 8, e70047.	2.5	106
22	Integrated Stress Response Modulates Cellular Redox State via Induction of Cystathionine β -Lyase. <i>Journal of Biological Chemistry</i> , 2012, 287, 7603-7614.	3.4	100
23	Mouse models of cystathionine β -synthase deficiency reveal significant threshold effects of hyperhomocysteinemia. <i>FASEB Journal</i> , 2009, 23, 883-893.	0.5	96
24	GRP78 and CHOP modulate macrophage apoptosis and the development of bleomycin-induced pulmonary fibrosis. <i>Journal of Pathology</i> , 2016, 239, 411-425.	4.5	96
25	The Unfolded Protein Response in Health and Disease. <i>Antioxidants and Redox Signaling</i> , 2009, 11, 2279-2287.	5.4	87
26	The methylenetetrahydrofolate reductase C677T mutation induces cell-specific changes in genomic DNA methylation and uracil misincorporation: A possible molecular basis for the site-specific cancer risk modification. <i>International Journal of Cancer</i> , 2009, 124, 1999-2005.	5.1	80
27	Endoplasmic reticulum stress and lipid dysregulation. <i>Expert Reviews in Molecular Medicine</i> , 2011, 13, e4.	3.9	79
28	Dexamethasone-induced suppression of apoptosis in human neutrophils requires continuous stimulation of new protein synthesis. <i>Journal of Leukocyte Biology</i> , 1997, 61, 224-230.	3.3	78
29	Homocysteine-dependent Alterations in Mitochondrial Gene Expression, Function and Structure. <i>Journal of Biological Chemistry</i> , 1998, 273, 30808-30817.	3.4	69
30	Effects of vitamin supplementation and hyperhomocysteinemia on atherosclerosis in apoE-deficient mice. <i>Atherosclerosis</i> , 2003, 168, 255-262.	0.8	69
31	Glucosamine-Induced Endoplasmic Reticulum Stress Promotes ApoB100 Degradation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2005, 25, 571-577.	2.4	69
32	A Novel Approach to Tumor Suppression with Microencapsulated Recombinant Cells. <i>Human Gene Therapy</i> , 2002, 13, 1157-1166.	2.7	67
33	Interstitial Cell Remodeling Promotes Aberrant Adipogenesis in Dystrophic Muscles. <i>Cell Reports</i> , 2020, 31, 107597.	6.4	64
34	ER stress contributes to renal proximal tubule injury by increasing SREBP-2-mediated lipid accumulation and apoptotic cell death. <i>American Journal of Physiology - Renal Physiology</i> , 2012, 303, F266-F278.	2.7	59
35	Overexpression of the 78-kDa Glucose-regulated Protein/Immunoglobulin-binding Protein (GRP78/BiP) Inhibits Tissue Factor Procoagulant Activity. <i>Journal of Biological Chemistry</i> , 2003, 278, 17438-17447.	3.4	55
36	Immunohistochemical detection of N-homocysteinylated proteins in humans and mice. <i>Biomedicine and Pharmacotherapy</i> , 2008, 62, 473-479.	5.6	55

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37	Salicylate improves macrophage cholesterol homeostasis via activation of Ampk. <i>Journal of Lipid Research</i> , 2015, 56, 1025-1033.	4.2	55
38	Expression and synthesis of alternatively spliced variants of Dp71 in adult human brain. <i>Neuromuscular Disorders</i> , 2000, 10, 187-193.	0.6	52
39	TDAG51 mediates epithelial-to-mesenchymal transition in human proximal tubular epithelium. <i>American Journal of Physiology - Renal Physiology</i> , 2012, 303, F467-F481.	2.7	52
40	Cystathionine Protects against Endoplasmic Reticulum Stress-induced Lipid Accumulation, Tissue Injury, and Apoptotic Cell Death. <i>Journal of Biological Chemistry</i> , 2012, 287, 31994-32005.	3.4	51
41	Pcsk9 knockout exacerbates diet-induced non-alcoholic steatohepatitis, fibrosis and liver injury in mice. <i>JHEP Reports</i> , 2019, 1, 418-429.	4.9	51
42	Macrophage Function and Its Impact on Atherosclerotic Lesion Composition, Progression, and Stability. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2008, 28, 1413-1415.	2.4	50
43	Hydrogen sulfide in the pathogenesis of atherosclerosis and its therapeutic potential. <i>Expert Review of Clinical Pharmacology</i> , 2011, 4, 97-108.	3.1	50
44	Comparison of Heparin- and Dermatan Sulfate-mediated Catalysis of Thrombin Inactivation by Heparin Cofactor II. <i>Journal of Biological Chemistry</i> , 1999, 274, 27597-27604.	3.4	49
45	Glucose-regulated protein (GRP78) is an important cell surface receptor for viral invasion, cancers, and neurological disorders. <i>IUBMB Life</i> , 2021, 73, 843-854.	3.4	47
46	Caffeine blocks SREBP2-induced hepatic PCSK9 expression to enhance LDLR-mediated cholesterol clearance. <i>Nature Communications</i> , 2022, 13, 770.	12.8	47
47	Role of Endoplasmic Reticulum Calcium Disequilibria in the Mechanism of Homocysteine-Induced ER Stress. <i>Antioxidants and Redox Signaling</i> , 2007, 9, 1863-1874.	5.4	45
48	Hyperhomocysteinemia induced by methionine supplementation does not independently cause atherosclerosis in C57BL/6J mice. <i>FASEB Journal</i> , 2008, 22, 2569-2578.	0.5	44
49	Prothrombotic Effects of Hyperhomocysteinemia and Hypercholesterolemia in ApoE-Deficient Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007, 27, 233-240.	2.4	43
50	ER Stress and Lipogenesis: A Slippery Slope toward Hepatic Steatosis. <i>Developmental Cell</i> , 2008, 15, 795-796.	7.0	43
51	Activation of mesangial cell MAPK in response to homocysteine. <i>Kidney International</i> , 2004, 66, 733-745.	5.2	42
52	Induction of the unfolded protein response after monocyte to macrophage differentiation augments cell survival in early atherosclerotic lesions. <i>FASEB Journal</i> , 2011, 25, 576-589.	0.5	42
53	Sialidase down-regulation reduces non-HDL cholesterol, inhibits leukocyte transmigration, and attenuates atherosclerosis in ApoE knockout mice. <i>Journal of Biological Chemistry</i> , 2018, 293, 14689-14706.	3.4	42
54	Diet-induced hepatic steatosis abrogates cell-surface LDLR by inducing de novo PCSK9 expression in mice. <i>Journal of Biological Chemistry</i> , 2019, 294, 9037-9047.	3.4	40

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55	Binding of Anti-GRP78 Autoantibodies to Cell Surface GRP78 Increases Tissue Factor Procoagulant Activity via the Release of Calcium from Endoplasmic Reticulum Stores. <i>Journal of Biological Chemistry</i> , 2010, 285, 28912-28923.	3.4	39
56	Loss of TDAG51 Results in Mature-Onset Obesity, Hepatic Steatosis, and Insulin Resistance by Regulating Lipogenesis. <i>Diabetes</i> , 2013, 62, 158-169.	0.6	34
57	Dystrophin isoforms Dp71 and Dp427 have distinct roles in myogenic cells. , 1999, 22, 16-27.		32
58	Endoplasmic Reticulum Stress and Ca ²⁺ Depletion Differentially Modulate the Sterol Regulatory Protein PCSK9 to Control Lipid Metabolism. <i>Journal of Biological Chemistry</i> , 2017, 292, 1510-1523.	3.4	31
59	Cell surface expression of 78-kDa glucose-regulated protein (GRP78) mediates diabetic nephropathy. <i>Journal of Biological Chemistry</i> , 2019, 294, 7755-7768.	3.4	31
60	Anti-GRP78 autoantibodies induce endothelial cell activation and accelerate the development of atherosclerotic lesions. <i>JCI Insight</i> , 2018, 3, .	5.0	31
61	Increased Endoplasmic Reticulum Stress in Atherosclerotic Plaques Associated With Acute Coronary Syndrome. <i>Circulation</i> , 2007, 116, 1214-1216.	1.6	30
62	Localization of the Thrombin-binding Domain on Prothrombin Fragment 2. <i>Journal of Biological Chemistry</i> , 1998, 273, 8932-8939.	3.4	29
63	Loss-of-function PCSK9 mutants evade the unfolded protein response sensor GRP78 and fail to induce endoplasmic reticulum stress when retained. <i>Journal of Biological Chemistry</i> , 2018, 293, 7329-7343.	3.4	29
64	The loss-of-function PCSK9Q152H variant increases ER chaperones GRP78 and GRP94 and protects against liver injury. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	29
65	Characterization of Proliferating Lesion-Resident Cells During All Stages of Atherosclerotic Growth. <i>Journal of the American Heart Association</i> , 2016, 5, .	3.7	28
66	Novel Function of PERK as a Mediator of Force-induced Apoptosis. <i>Journal of Biological Chemistry</i> , 2008, 283, 23462-23472.	3.4	27
67	Deficiency of TDAG51 Protects Against Atherosclerosis by Modulating Apoptosis, Cholesterol Efflux, and Peroxiredoxin-1 Expression. <i>Journal of the American Heart Association</i> , 2013, 2, e000134.	3.7	27
68	Identification of Dp71 Isoforms in the Platelet Membrane Cytoskeleton. <i>Journal of Biological Chemistry</i> , 2002, 277, 47106-47113.	3.4	26
69	Separate roles of IL-6 and oncostatin M in mouse macrophage polarization <i>in vitro</i> and <i>in vivo</i> . <i>Immunology and Cell Biology</i> , 2018, 96, 257-272.	2.3	26
70	Rosuvastatin Reduces Aortic Sinus and Coronary Artery Atherosclerosis in SR-B1 (Scavenger Receptor) Tj ETQq0 0 0 rgBT /Overlock 10 T Lowering. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, 26-39.	2.4	24
71	Calcium as a reliable marker for the quantitative assessment of endoplasmic reticulum stress in live cells. <i>Journal of Biological Chemistry</i> , 2021, 296, 100779.	3.4	24
72	Pharmacologic inhibition of S1P attenuates ATF6 expression, causes ER stress and contributes to apoptotic cell death. <i>Toxicology and Applied Pharmacology</i> , 2018, 349, 1-7.	2.8	23

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73	The Molecular Pathology of Inherited Human Antithrombin III Deficiency. <i>Transfusion Medicine Reviews</i> , 1989, 3, 264-281.	2.0	22
74	GRP78 (Glucose-Regulated Protein of 78 kDa) Promotes Cardiomyocyte Growth Through Activation of GATA4 (GATA-Binding Protein 4). <i>Hypertension</i> , 2019, 73, 390-398.	2.7	18
75	Immunohistochemical Detection of the Unfolded Protein Response in Atherosclerotic Plaques. <i>Methods in Enzymology</i> , 2011, 489, 23-46.	1.0	17
76	Autoantibodies against the cell surface-associated chaperone GRP78 stimulate tumor growth via tissue factor. <i>Journal of Biological Chemistry</i> , 2017, 292, 21180-21192.	3.4	17
77	GDF10 blocks hepatic PPAR γ activation to protect against diet-induced liver injury. <i>Molecular Metabolism</i> , 2019, 27, 62-74.	6.5	17
78	Homocysteinylation of Metallothionein Impairs Intracellular Redox Homeostasis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007, 27, 8-11.	2.4	16
79	4-Phenylbutyrate protects against atherosclerotic lesion growth by increasing the expression of HSP25 in macrophages and in the circulation of ApoE $^{-/-}$ mice. <i>FASEB Journal</i> , 2019, 33, 8406-8422.	0.5	16
80	The trypan blue cellular debris assay: a novel low-cost method for the rapid quantification of cell death. <i>MethodsX</i> , 2019, 6, 1174-1180.	1.6	15
81	Asialoglycoprotein receptor 1 is a novel PCSK9-independent ligand of liver LDLR cleaved by furin. <i>Journal of Biological Chemistry</i> , 2021, 297, 101177.	3.4	15
82	Underactivation of the adiponectin-adiponectin receptor 1 axis in clear cell renal cell carcinoma: implications for progression. <i>Clinical and Experimental Metastasis</i> , 2014, 31, 169-183.	3.3	13
83	Thrombotic characteristics of extracellular vesicles derived from prostate cancer cells. <i>Prostate</i> , 2018, 78, 953-961.	2.3	13
84	Development of a continuous assay for the measurement of tissue factor procoagulant activity on intact cells. <i>Laboratory Investigation</i> , 2010, 90, 953-962.	3.7	10
85	TDAG51 induces renal interstitial fibrosis through modulation of TGF- β 2 receptor 1 in chronic kidney disease. <i>Cell Death and Disease</i> , 2021, 12, 921.	6.3	10
86	The Emerging Roles of Intracellular PCSK9 and Their Implications in Endoplasmic Reticulum Stress and Metabolic Diseases. <i>Metabolites</i> , 2022, 12, 215.	2.9	10
87	Inhibitory Antibodies against PCSK9 Reduce Surface CD36 and Mitigate Diet-Induced Renal Lipotoxicity. <i>Kidney360</i> , 2022, 3, 1394-1410.	2.1	10
88	Site-directed mutagenesis of alanine-382 of human antithrombin III. <i>FEBS Letters</i> , 1991, 280, 254-258.	2.8	9
89	Proteasomal Regulation of Cardiac Hypertrophy. <i>Circulation</i> , 2006, 114, 1796-1798.	1.6	9
90	Getting a GRP on Tissue Factor Activation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2005, 25, 1529-1531.	2.4	8

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91	Salsalate reduces atherosclerosis through AMPK ²¹ in mice. <i>Molecular Metabolism</i> , 2021, 53, 101321.	6.5	8
92	Endoplasmic Reticulum Protein ERp46 in Renal Cell Carcinoma. <i>PLoS ONE</i> , 2014, 9, e90389.	2.5	7
93	Scratching the Surface—An Overview of the Roles of Cell Surface GRP78 in Cancer. <i>Biomedicines</i> , 2022, 10, 1098.	3.2	7
94	Endoplasmic reticulum protein ERp46 in prostate adenocarcinoma. <i>Oncology Letters</i> , 2017, 13, 3624-3630.	1.8	6
95	TDAG51 (T-Cell Death-Associated Gene 51) Is a Key Modulator of Vascular Calcification and Osteogenic Transdifferentiation of Arterial Smooth Muscle Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020, 40, 1664-1679.	2.4	5
96	MAPPING the kinase landscape of macrophage activation. <i>Journal of Biological Chemistry</i> , 2018, 293, 9910-9911.	3.4	3
97	The Pleckstrin homology like domain family member, TDAG51, is temporally regulated during skeletal muscle regeneration. <i>Biochemical and Biophysical Research Communications</i> , 2018, 495, 499-505.	2.1	2
98	Endoplasmic Reticulum Stress and the Unfolded Protein Response in Lipid Metabolism and Obesity. , 2012, , 231-256.		1
99	Pleckstrin Homology-Like Domain, Family A, Member 1 (PHLDA1): A Multifaceted Cell Survival Factor that Drives Metabolic Disease. <i>Engineering</i> , 2023, 20, 9-18.	6.7	1
100	Deficiency in TDAG51 Decreases Atherosclerotic Lesion Development in ApoE-Deficient Mice.. <i>Blood</i> , 2006, 108, 3940-3940.	1.4	0
101	TDAG51 Deficiency Promotes Migration and Proliferation of Mouse Embryonic Fibroblasts.. <i>Blood</i> , 2006, 108, 3941-3941.	1.4	0
102	Intracellular localization of TDAG51 modulates its effect on cell death. <i>FASEB Journal</i> , 2009, 23, 618.3.	0.5	0
103	ER Stress-Induced SREBP ² Activation Contributes to Lipid Accumulation in Tubular Nephrotoxicity. <i>FASEB Journal</i> , 2011, 25, 1002.8.	0.5	0
104	The small molecule chemical chaperone 4-phenylbutyrate inhibits epithelial-to-mesenchymal transition in human renal proximal tubular epithelial cells. <i>FASEB Journal</i> , 2011, 25, .	0.5	0
105	TDAG51 overexpression mediates proximal tubule epithelial cell apoptosis through its accumulation in the nucleus. <i>FASEB Journal</i> , 2012, 26, 798.7.	0.5	0
106	PCSK9 REDUCES HEPATIC LIPID CONTENT AND CONFERS PROTECTION AGAINST ER STRESS AND ROS IN HEPG2 CELLS. <i>FASEB Journal</i> , 2018, 32, 539.8.	0.5	0