Beverly A Rothermel

List of Publications by Year
in descending order

94 papers	11,449 citations	31976 53 h-index	43889 91 g-index
95 all docs	95 docs citations	95 times ranked	16178 citing authors

#	Article	IF	Citations
1	The integrated stress response in ischemic diseases. Cell Death and Differentiation, 2022, 29, 750-757.	11.2	23
2	ATF4 Protects the Heart From Failure by Antagonizing Oxidative Stress. Circulation Research, 2022, 131, 91-105.	4.5	26
3	Targeting calcineurin induces cardiomyocyte proliferation in adult mice. , 2022, 1, 679-688.		2
4	Cooperative Binding of ETS2 and NFAT Links Erk1/2 and Calcineurin Signaling in the Pathogenesis of Cardiac Hypertrophy. Circulation, 2021, 144, 34-51.	1.6	30
5	Central Calcineurin Plays a Role in Skeletal Muscle Reflex Overactivity Induced by High Dietary Phosphate Intake in Rats. FASEB Journal, 2021, 35, .	0.5	0
6	Endoplasmic reticulumâ˘'mitochondria coupling increases during doxycycline-induced mitochondrial stress in HeLa cells. Cell Death and Disease, 2021, 12, 657.	6.3	16
7	Calcineurin in the heart: New horizons for an old friend. Cellular Signalling, 2021, 87, 110134.	3.6	16
8	Is Mitochondrial Dysfunction a Common Root of Noncommunicable Chronic Diseases?. Endocrine Reviews, 2020, 41, .	20.1	76
9	Angiotensin-(1â€"9) prevents cardiomyocyte hypertrophy by controlling mitochondrial dynamics via miR-129-3p/PKIA pathway. Cell Death and Differentiation, 2020, 27, 2586-2604.	11.2	29
10	A calcineurinâ€"Hoxb13 axis regulates growth mode of mammalian cardiomyocytes. Nature, 2020, 582, 271-276.	27.8	77
11	FoxO1â€"Dio2 signaling axis governs cardiomyocyte thyroid hormone metabolism and hypertrophic growth. Nature Communications, 2020, 11, 2551.	12.8	26
12	Caveolin-1 impairs PKA-DRP1-mediated remodelling of ERâ€"mitochondria communication during the early phase of ER stress. Cell Death and Differentiation, 2019, 26, 1195-1212.	11.2	46
13	Down Syndrome Critical Region 1 Gene, <i>Rcan1</i> , Helps Maintain a More Fused Mitochondrial Network. Circulation Research, 2018, 122, e20-e33.	4.5	47
14	Regulator of Calcineurin 1 helps coordinate wholeâ€body metabolism and thermogenesis. EMBO Reports, 2018, 19, .	4.5	30
15	Beclin-1-Dependent Autophagy Protects the Heart During Sepsis. Circulation, 2018, 138, 2247-2262.	1.6	255
16	Protection of the myocardium against ischemia/reperfusion injury by angiotensin-(1â€"9) through an AT2R and Akt-dependent mechanism. Pharmacological Research, 2018, 135, 112-121.	7.1	28
17	Mitochondria in Structural and Functional Cardiac Remodeling. Advances in Experimental Medicine and Biology, 2017, 982, 277-306.	1.6	51
18	Calcineurin signaling in the heart: The importance of time and place. Journal of Molecular and Cellular Cardiology, 2017, 103, 121-136.	1.9	81

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19	Mitochondrial dynamics, mitophagy and cardiovascular disease. Journal of Physiology, 2016, 594, 509-525.	2.9	441
20	Endolysosomal twoâ€pore channels regulate autophagy in cardiomyocytes. Journal of Physiology, 2016, 594, 3061-3077.	2.9	70
21	mTORC1 inhibitor rapamycin and ER stressor tunicamycin induce differential patterns of ER-mitochondria coupling. Scientific Reports, 2016, 6, 36394.	3.3	32
22	Inhibition of class I histone deacetylases blunts cardiac hypertrophy through TSC2-dependent mTOR repression. Science Signaling, 2016, 9, ra34.	3.6	69
23	Pharmacological Priming of Adipose-Derived Stem Cells Promotes Myocardial Repair. Journal of Investigative Medicine, 2016, 64, 50-62.	1.6	9
24	Autophagy in cardiovascular biology. Journal of Clinical Investigation, 2015, 125, 55-64.	8.2	294
25	Defective insulin signaling and mitochondrial dynamics in diabetic cardiomyopathy. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 1113-1118.	4.1	50
26	ER-to-mitochondria miscommunication and metabolic diseases. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2015, 1852, 2096-2105.	3.8	90
27	Polycystin-1 Is a Cardiomyocyte Mechanosensor That Governs L-Type Ca ²⁺ Channel Protein Stability. Circulation, 2015, 131, 2131-2142.	1.6	71
28	RCAN1 overexpression promotes age-dependent mitochondrial dysregulation related to neurodegeneration in Alzheimerâ€™s disease. Acta Neuropathologica, 2015, 130, 829-843.	7.7	61
29	Cytoglobin modulates myogenic progenitor cell viability and muscle regeneration. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E129-38.	7.1	55
30	Alteration in mitochondrial Ca2+ uptake disrupts insulin signaling in hypertrophic cardiomyocytes. Cell Communication and Signaling, 2014, 12, 68.	6.5	37
31	Calcineurin and its regulator, RCAN1, confer time-of-day changes in susceptibility of the heart to ischemia/reperfusion. Journal of Molecular and Cellular Cardiology, 2014, 74, 103-111.	1.9	37
32	Insulin Stimulates Mitochondrial Fusion and Function in Cardiomyocytes via the Akt-mTOR-NFÎºB-Opa-1 Signaling Pathway. Diabetes, 2014, 63, 75-88.	0.6	195
33	Spliced X-Box Binding Protein 1 Couples the Unfolded Protein Response to Hexosamine Biosynthetic Pathway. Cell, 2014, 156, 1179-1192.	28.9	317
34	The Oxygen-Rich Postnatal Environment Induces Cardiomyocyte Cell-Cycle Arrest through DNA Damage Response. Cell, 2014, 157, 565-579.	28.9	688
35	Mitochondrial fission is required for cardiomyocyte hypertrophy via a Ca2+-calcineurin signalling pathway. Journal of Cell Science, 2014, 127, 2659-71.	2.0	140
36	An integrated mechanism of cardiomyocyte nuclear Ca2+ signaling. Journal of Molecular and Cellular Cardiology, 2014, 75, 40-48.	1.9	15

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37	Regulation of neonatal and adult mammalian heart regeneration by the miR-15 family. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 187-192.	7.1	654
38	Mechanical Unloading Activates FoxO3 to Trigger Bnip3â€Dependent Cardiomyocyte Atrophy. Journal of the American Heart Association, 2013, 2, e000016.	3.7	90
39	Regulator of Calcineurin 1 Modulates Expression of Innate Anxiety and Anxiogenic Responses to Selective Serotonin Reuptake Inhibitor Treatment. Journal of Neuroscience, 2013, 33, 16930-16944.	3.6	16
40	Cardiovascular autophagy. Autophagy, 2013, 9, 1455-1466.	9.1	162
41	Metabolic stressâ€"induced activation of FoxO1 triggers diabetic cardiomyopathy in mice. Journal of Clinical Investigation, 2012, 122, 1109-1118.	8.2	274
42	STIM1-dependent store-operated Ca2+ entry is required for pathological cardiac hypertrophy. Journal of Molecular and Cellular Cardiology, 2012, 52, 136-147.	1.9	133
43	Endoplasmic reticulum: ER stress regulates mitochondrial bioenergetics. International Journal of Biochemistry and Cell Biology, 2012, 44, 16-20.	2.8	162
44	Targets, trafficking, and timing of cardiac autophagy. Pharmacological Research, 2012, 66, 494-504.	7.1	20
45	FHL2 Binds Calcineurin and Represses Pathological Cardiac Growth. Molecular and Cellular Biology, 2012, 32, 4025-4034.	2.3	55
46	Epigenetic dysregulation via regulator of calcineurin 1 (RCAN1) in Alzheimer's disease. FASEB Journal, 2012, 26, 928.8.	0.5	0
47	Fecal corticosterone levels in RCAN1 mutant mice. Comparative Medicine, 2012, 62, 87-94.	1.0	5
48	Increased ERâ€"mitochondrial coupling promotes mitochondrial respiration and bioenergetics during early phases of ER stress. Journal of Cell Science, 2011, 124, 2143-2152.	2.0	483
49	The complex interplay between mitochondrial dynamics and cardiac metabolism. Journal of Bioenergetics and Biomembranes, 2011, 43, 47-51.	2.3	59
50	Reversibility of Adverse, Calcineurin-Dependent Cardiac Remodeling. Circulation Research, 2011, 109, 407-417.	4.5	51
51	Sustained Hemodynamic Stress Disrupts Normal Circadian Rhythms in Calcineurin-Dependent Signaling and Protein Phosphorylation in the Heart. Circulation Research, 2011, 108, 437-445.	4.5	46
52	Histone deacetylase (HDAC) inhibitors attenuate cardiac hypertrophy by suppressing autophagy. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4123-4128.	7.1	360
53	FoxO, Autophagy, and Cardiac Remodeling. Journal of Cardiovascular Translational Research, 2010, 3, 355-364.	2.4	79
54	Mitochondrial Fission and Autophagy in the Normal and Diseased Heart. Current Hypertension Reports, 2010, 12, 418-425.	3.5	63

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55	The CCAAT/Enhancer Binding Protein Î² (C/EBPÎ²) Cooperates with NFAT to Control Expression of the Calcineurin Regulatory Protein RCAN1â€“4. Journal of Biological Chemistry, 2010, 285, 16623-16631.	3.4	29
56	Autophagy in Hypertensive Heart Disease. Journal of Biological Chemistry, 2010, 285, 8509-8514.	3.4	105
57	Regulator of Calcineurin 1 Controls Growth Plasticity of Adult Pancreas. Gastroenterology, 2010, 139, 609-619.e6.	1.3	33
58	Chapter 17 Autophagy in Loadâ€Induced Heart Disease. Methods in Enzymology, 2009, 453, 343-363.	1.0	15
59	Physical and Functional Interaction Between Calcineurin and the Cardiac L-Type Ca ²⁺ Channel. Circulation Research, 2009, 105, 51-60.	4.5	101
60	Calcineurin Activates Cytoglobin Transcription in Hypoxic Myocytes. Journal of Biological Chemistry, 2009, 284, 10409-10421.	3.4	30
61	Histone deacetylase inhibition in the treatment of heart disease. Expert Opinion on Drug Safety, 2008, 7, 53-67.	2.4	46
62	Autophagy is an adaptive response in desmin-related cardiomyopathy. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 9745-9750.	7.1	209
63	Autophagy in Load-Induced Heart Disease. Circulation Research, 2008, 103, 1363-1369.	4.5	179
64	Adenosine A ₃ Receptor and Cardioprotection. Circulation, 2008, 118, 1691-1693.	1.6	9
65	Intracellular Protein Aggregation Is a Proximal Trigger of Cardiomyocyte Autophagy. Circulation, 2008, 117, 3070-3078.	1.6	218
66	The heart of autophagy: Deconstructing cardiac proteotoxicity. Autophagy, 2008, 4, 932-935.	9.1	15
67	FoxO transcription factors activate Akt and attenuate insulin signaling in heart by inhibiting protein phosphatases. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20517-20522.	7.1	227
68	Myocyte Autophagy in Heart Disease: Friend or Foe?. Autophagy, 2007, 3, 632-634.	9.1	64
69	The Down Syndrome Critical Region Protein RCAN1 Regulates Long-Term Potentiation and Memory via Inhibition of Phosphatase Signaling. Journal of Neuroscience, 2007, 27, 13161-13172.	3.6	98
70	Models of cardiac hypertrophy and transition to heart failure. Drug Discovery Today: Disease Models, 2007, 4, 197-206.	1.2	15
71	Cardiac autophagy is a maladaptive response to hemodynamic stress. Journal of Clinical Investigation, 2007, 117, 1782-1793.	8.2	672
72	Foxo Transcription Factors Blunt Cardiac Hypertrophy by Inhibiting Calcineurin Signaling. Circulation, 2006, 114, 1159-1168.	1.6	278

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73	Molecular Mechanisms of Cardiac Hypertrophy and Failure. Circulation, 2006, 113, .	1.6	0
74	Suppression of Class I and II Histone Deacetylases Blunts Pressure-Overload Cardiac Hypertrophy. Circulation, 2006, 113, 2579-2588.	1.6	328
75	Guanosine Triphosphatase Activation Occurs Downstream of Calcineurin in Cardiac Hypertrophy*. Journal of Investigative Medicine, 2005, 53, 414-424.	1.6	1
76	Differential activation of stress-response signaling in load-induced cardiac hypertrophy and failure. Physiological Genomics, 2005, 23, 18-27.	2.3	59
77	Calcineurin Is Necessary for the Maintenance but Not Embryonic Development of Slow Muscle Fibers. Molecular and Cellular Biology, 2005, 25, 6629-6638.	2.3	88
78	Cardiac-Specific Overexpression of Peroxisome Proliferatorâ€“Activated Receptor-Î± Causes Insulin Resistance in Heart and Liver. Diabetes, 2005, 54, 2514-2524.	0.6	113
79	Unraveling the Temporal Pattern of Diet-Induced Insulin Resistance in Individual Organs and Cardiac Dysfunction in <scp>c57bl/6</scp> Mice. Diabetes, 2005, 54, 3530-3540.	0.6	251
80	MCIP1 Overexpression Suppresses Left Ventricular Remodeling and Sustains Cardiac Function After Myocardial Infarction. Circulation Research, 2004, 94, e18-26.	4.5	104
81	Mice lacking calsarcin-1 are sensitized to calcineurin signaling and show accelerated cardiomyopathy in response to pathological biomechanical stress. Nature Medicine, 2004, 10, 1336-1343.	30.7	191
82	The Role of Modulatory Calcineurin-Interacting Proteins in Calcineurin Signaling. Trends in Cardiovascular Medicine, 2003, 13, 15-21.	4.9	157
83	Dual roles of modulatory calcineurin-interacting protein 1 in cardiac hypertrophy. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 669-674.	7.1	211
84	Targeted Inhibition of Calcineurin in Pressure-overload Cardiac Hypertrophy. Journal of Biological Chemistry, 2002, 277, 10251-10255.	3.4	104
85	Multiple Domains of MCIP1 Contribute to Inhibition of Calcineurin Activity. Journal of Biological Chemistry, 2002, 277, 30401-30407.	3.4	131
86	Maize C4 and non-C4 NADP-dependent malic enzymes are encoded by distinct genes derived from a plastid-localized ancestor. Plant Molecular Biology, 2002, 50, 635-652.	3.9	58
87	The Gal4 Activation Domain Binds Sug2 Protein, a Proteasome Component, in Vivo and in Vitro. Journal of Biological Chemistry, 2001, 276, 30956-30963.	3.4	43
88	Cardiac-Specific LIM Protein FHL2 Modifies the Hypertrophic Response to Î²-Adrenergic Stimulation. Circulation, 2001, 103, 2731-2738.	1.6	136
89	A Protein Encoded within the Down Syndrome Critical Region Is Enriched in Striated Muscles and Inhibits Calcineurin Signaling. Journal of Biological Chemistry, 2000, 275, 8719-8725.	3.4	380
90	Independent Signals Control Expression of the Calcineurin Inhibitory Proteins MCIP1 and MCIP2 in Striated Muscles. Circulation Research, 2000, 87, E61-8.	4.5	292

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91	Rtg3p, a Basic Helix-Loop-Helix/Leucine Zipper Protein that Functions in Mitochondrial-induced Changes in Gene Expression, Contains Independent Activation Domains. Journal of Biological Chemistry, 1997, 272, 19801-19807.	3.4	98
92	Transactivation by Rtg1p, a Basic Helix-Loop-Helix Protein That Functions in Communication between Mitochondria and the Nucleus in Yeast. Journal of Biological Chemistry, 1995, 270, 29476-29482.	3.4	51
93	Retrograde regulation: a novel path of communication between mitochondria, the nucleus, and peroxisomes in yeast. Canadian Journal of Botany, 1995, 73, 205-207.	1.1	3
94	Maize NADP-malate dehydrogenase: cDNA cloning, sequence, and mRNA characterization. Plant Molecular Biology, 1989, 12, 713-722.	3.9	64