

Chris Glembotski

List of Publications by Citations

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92
papers

6,391
citations

49
h-index

79
g-index

98
ext. papers

7,049
ext. citations

8.6
avg, IF

5.73
L-index

#	Paper	IF	Citations
92	p38 MAPK and NF-kappa B collaborate to induce interleukin-6 gene expression and release. Evidence for a cytoprotective autocrine signaling pathway in a cardiac myocyte model system. <i>Journal of Biological Chemistry</i> , 2000 , 275, 23814-24	5.4	282
91	A role for the p38 mitogen-activated protein kinase pathway in myocardial cell growth, sarcomeric organization, and cardiac-specific gene expression. <i>Journal of Cell Biology</i> , 1997 , 139, 115-27	7.3	281
90	Cardiotrophin-1 activates a distinct form of cardiac muscle cell hypertrophy. Assembly of sarcomeric units in series VIA gp130/leukemia inhibitory factor receptor-dependent pathways. <i>Journal of Biological Chemistry</i> , 1996 , 271, 9535-45	5.4	278
89	Endoplasmic reticulum stress gene induction and protection from ischemia/reperfusion injury in the hearts of transgenic mice with a tamoxifen-regulated form of ATF6. <i>Circulation Research</i> , 2006 , 98, 1186-93	15.7	248
88	Activation of the unfolded protein response in infarcted mouse heart and hypoxic cultured cardiac myocytes. <i>Circulation Research</i> , 2006 , 99, 275-82	15.7	246
87	Pim-1 regulates cardiomyocyte survival downstream of Akt. <i>Nature Medicine</i> , 2007 , 13, 1467-75	50.5	191
86	MKK6 activates myocardial cell NF-kappaB and inhibits apoptosis in a p38 mitogen-activated protein kinase-dependent manner. <i>Journal of Biological Chemistry</i> , 1998 , 273, 8232-9	5.4	180
85	Endoplasmic reticulum stress in the heart. <i>Circulation Research</i> , 2007 , 101, 975-84	15.7	174
84	Strategies for the biosynthesis of bioactive peptides. <i>Trends in Neurosciences</i> , 1983 , 6, 229-235	13.3	168
83	ATF6 Decreases Myocardial Ischemia/Reperfusion Damage and Links ER Stress and Oxidative Stress Signaling Pathways in the Heart. <i>Circulation Research</i> , 2017 , 120, 862-875	15.7	150
82	Mimicking phosphorylation of alphaB-crystallin on serine-59 is necessary and sufficient to provide maximal protection of cardiac myocytes from apoptosis. <i>Circulation Research</i> , 2003 , 92, 203-11	15.7	134
81	Dissociation of p44 and p42 mitogen-activated protein kinase activation from receptor-induced hypertrophy in neonatal rat ventricular myocytes. <i>Journal of Biological Chemistry</i> , 1996 , 271, 8452-7	5.4	134
80	Atrial natriuretic peptide promotes cardiomyocyte survival by cGMP-dependent nuclear accumulation of zyxin and Akt. <i>Journal of Clinical Investigation</i> , 2005 , 115, 2716-30	15.9	131
79	LPS-induced TNF-alpha release from and apoptosis in rat cardiomyocytes: obligatory role for CD14 in mediating the LPS response. <i>Journal of Molecular and Cellular Cardiology</i> , 1998 , 30, 2761-75	5.8	128
78	Ischemia activates the ATF6 branch of the endoplasmic reticulum stress response. <i>Journal of Biological Chemistry</i> , 2009 , 284, 29735-45	5.4	126
77	Mesencephalic astrocyte-derived neurotrophic factor protects the heart from ischemic damage and is selectively secreted upon sarco/endoplasmic reticulum calcium depletion. <i>Journal of Biological Chemistry</i> , 2012 , 287, 25893-904	5.4	123
76	alpha B-crystallin gene induction and phosphorylation by MKK6-activated p38. A potential role for alpha B-crystallin as a target of the p38 branch of the cardiac stress response. <i>Journal of Biological Chemistry</i> , 2000 , 275, 23825-33	5.4	117

75	Mesencephalic astrocyte-derived neurotrophic factor is an ischemia-inducible secreted endoplasmic reticulum stress response protein in the heart. <i>Circulation Research</i> , 2008 , 103, 1249-58	15.7	116
74	Activation of p38 has opposing effects on the proliferation and migration of endothelial cells. <i>Journal of Biological Chemistry</i> , 2005 , 280, 20995-1003	5.4	114
73	The role of the unfolded protein response in the heart. <i>Journal of Molecular and Cellular Cardiology</i> , 2008 , 44, 453-9	5.8	111
72	Effects of the isoform-specific characteristics of ATF6 alpha and ATF6 beta on endoplasmic reticulum stress response gene expression and cell viability. <i>Journal of Biological Chemistry</i> , 2007 , 282, 22865-78	5.4	107
71	Opposing roles for ATF6alpha and ATF6beta in endoplasmic reticulum stress response gene induction. <i>Journal of Biological Chemistry</i> , 2004 , 279, 21078-84	5.4	106
70	p38 Mitogen-activated protein kinase mediates the transcriptional induction of the atrial natriuretic factor gene through a serum response element. A potential role for the transcription factor ATF6. <i>Journal of Biological Chemistry</i> , 1998 , 273, 20636-43	5.4	102
69	TNF alpha receptor expression in rat cardiac myocytes: TNF alpha inhibition of L-type Ca ²⁺ current and Ca ²⁺ transients. <i>FEBS Letters</i> , 1995 , 376, 24-30	3.8	94
68	Roles for alphaB-crystallin and HSPB2 in protecting the myocardium from ischemia-reperfusion-induced damage in a KO mouse model. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004 , 286, H847-55	5.2	91
67	Involvement of multiple cis elements in basal- and alpha-adrenergic agonist-inducible atrial natriuretic factor transcription. Roles for serum response elements and an SP-1-like element. <i>Circulation Research</i> , 1995 , 77, 1060-9	15.7	86
66	Pharmacologic ATF6 activation confers global protection in widespread disease models by reprogramming cellular proteostasis. <i>Nature Communications</i> , 2019 , 10, 187	17.4	83
65	Coordination of growth and endoplasmic reticulum stress signaling by regulator of calcineurin 1 (RCAN1), a novel ATF6-inducible gene. <i>Journal of Biological Chemistry</i> , 2008 , 283, 14012-21	5.4	81
64	Sarco/endoplasmic reticulum calcium ATPase-2 expression is regulated by ATF6 during the endoplasmic reticulum stress response: intracellular signaling of calcium stress in a cardiac myocyte model system. <i>Journal of Biological Chemistry</i> , 2001 , 276, 48309-17	5.4	77
63	Pathological hypertrophy amelioration by PRAS40-mediated inhibition of mTORC1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 12661-6	11.5	76
62	Mechanistic target of rapamycin complex 2 protects the heart from ischemic damage. <i>Circulation</i> , 2013 , 128, 2132-44	16.7	75
61	Pim-1 kinase protects mitochondrial integrity in cardiomyocytes. <i>Circulation Research</i> , 2010 , 106, 1265-74	5.7	75
60	Protein disulfide isomerase-associated 6 is an ATF6-inducible ER stress response protein that protects cardiac myocytes from ischemia/reperfusion-mediated cell death. <i>Journal of Molecular and Cellular Cardiology</i> , 2012 , 53, 259-67	5.8	73
59	The cytoprotective effects of the glycoprotein 130 receptor-coupled cytokine, cardiotrophin-1, require activation of NF-kappa B. <i>Journal of Biological Chemistry</i> , 2001 , 276, 37621-9	5.4	73
58	Roles for endoplasmic reticulum-associated degradation and the novel endoplasmic reticulum stress response gene Derlin-3 in the ischemic heart. <i>Circulation Research</i> , 2010 , 106, 307-16	15.7	68

57	Regulation of microRNA expression in the heart by the ATF6 branch of the ER stress response. <i>Journal of Molecular and Cellular Cardiology</i> , 2012 , 52, 1176-82	5.8	67
56	Molecular forms of immunoreactive atrial natriuretic peptide in the rat hypothalamus and atrium. <i>Biochemical and Biophysical Research Communications</i> , 1985 , 129, 671-8	3.4	66
55	Hrd1 and ER-Associated Protein Degradation, ERAD, are Critical Elements of the Adaptive ER Stress Response in Cardiac Myocytes. <i>Circulation Research</i> , 2015 , 117, 536-46	15.7	64
54	Overexpression of mitogen-activated protein kinase kinase 6 in the heart improves functional recovery from ischemia in vitro and protects against myocardial infarction in vivo. <i>Journal of Biological Chemistry</i> , 2005 , 280, 669-76	5.4	64
53	New concepts of endoplasmic reticulum function in the heart: programmed to conserve. <i>Journal of Molecular and Cellular Cardiology</i> , 2013 , 55, 85-91	5.8	63
52	Collaborative roles for c-Jun N-terminal kinase, c-Jun, serum response factor, and Sp1 in calcium-regulated myocardial gene expression. <i>Journal of Biological Chemistry</i> , 1997 , 272, 24046-53	5.4	63
51	The Raf-MEK-ERK cascade represents a common pathway for alteration of intracellular calcium by Ras and protein kinase C in cardiac myocytes. <i>Journal of Biological Chemistry</i> , 1998 , 273, 21730-5	5.4	61
50	PRAS40 prevents development of diabetic cardiomyopathy and improves hepatic insulin sensitivity in obesity. <i>EMBO Molecular Medicine</i> , 2014 , 6, 57-65	12	60
49	Immunoreactive atrial natriuretic peptide in the rat eye: molecular forms in anterior uvea and retina. <i>Biochemical and Biophysical Research Communications</i> , 1986 , 134, 1022-8	3.4	60
48	Molecular forms of immunoreactive atrial natriuretic peptide released from cultured rat atrial myocytes. <i>Biochemical and Biophysical Research Communications</i> , 1985 , 132, 1008-17	3.4	58
47	Pharmacologic ATF6 activating compounds are metabolically activated to selectively modify endoplasmic reticulum proteins. <i>ELife</i> , 2018 , 7,	8.9	56
46	Coordination of ATF6-mediated transcription and ATF6 degradation by a domain that is shared with the viral transcription factor, VP16. <i>Journal of Biological Chemistry</i> , 2002 , 277, 20734-9	5.4	52
45	ATF6 Regulates Cardiac Hypertrophy by Transcriptional Induction of the mTORC1 Activator, Rheb. <i>Circulation Research</i> , 2019 , 124, 79-93	15.7	50
44	Junctophilin-2 gene therapy rescues heart failure by normalizing RyR2-mediated Ca release. <i>International Journal of Cardiology</i> , 2016 , 225, 371-380	3.2	49
43	Bovine intermediate pituitary alpha-amidation enzyme: preliminary characterization. <i>Peptides</i> , 1983 , 4, 921-8	3.8	49
42	Roles for ATF6 and the sarco/endoplasmic reticulum protein quality control system in the heart. <i>Journal of Molecular and Cellular Cardiology</i> , 2014 , 71, 11-5	5.8	48
41	Differential effects of protein kinase C, Ras, and Raf-1 kinase on the induction of the cardiac B-type natriuretic peptide gene through a critical promoter-proximal M-CAT element. <i>Journal of Biological Chemistry</i> , 1997 , 272, 7464-72	5.4	48
40	Activation of the ATF6 branch of the unfolded protein response in neurons improves stroke outcome. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017 , 37, 1069-1079	7.3	47

39	Functions for the cardiomyokine, MANF, in cardioprotection, hypertrophy and heart failure. <i>Journal of Molecular and Cellular Cardiology</i> , 2011 , 51, 512-7	5.8	46
38	Expression and characterization of Edg-1 receptors in rat cardiomyocytes: calcium deregulation in response to sphingosine 1-phosphate. <i>FEBS Journal</i> , 2000 , 267, 5679-86		41
37	CaMKII β subtypes differentially regulate infarct formation following ex vivo myocardial ischemia/reperfusion through NF- κ B and TNF- α . <i>Journal of Molecular and Cellular Cardiology</i> , 2017 , 103, 48-55	5.8	40
36	Regulation of cardiac hypertrophic signaling by prolyl isomerase Pin1. <i>Circulation Research</i> , 2013 , 112, 1244-52	15.7	39
35	MAP kinase kinase 6-p38 MAP kinase signaling cascade regulates cyclooxygenase-2 expression in cardiac myocytes in vitro and in vivo. <i>Circulation Research</i> , 2003 , 92, 757-64	15.7	38
34	Factor associated with neutral sphingomyelinase activation and its role in cardiac cell death. <i>Circulation Research</i> , 2003 , 92, 589-91	15.7	37
33	Proteostasis and Beyond: ATF6 in Ischemic Disease. <i>Trends in Molecular Medicine</i> , 2019 , 25, 538-550	11.5	33
32	The role of ascorbic acid in the biosynthesis of the neuroendocrine peptides alpha-MSH and TRH. <i>Annals of the New York Academy of Sciences</i> , 1987 , 498, 54-62	6.5	31
31	Roles for the sarco-/endoplasmic reticulum in cardiac myocyte contraction, protein synthesis, and protein quality control. <i>Physiology</i> , 2012 , 27, 343-50	9.8	29
30	Limitation of individual folding resources in the ER leads to outcomes distinct from the unfolded protein response. <i>Journal of Cell Science</i> , 2012 , 125, 4865-75	5.3	27
29	The MKK6-p38 MAPK pathway prolongs the cardiac contractile calcium transient, downregulates SERCA2, and activates NF-AT. <i>Cardiovascular Research</i> , 2003 , 59, 46-56	9.9	26
28	Further characterization of the peptidyl alpha-amidating enzyme in rat anterior pituitary secretory granules. <i>Archives of Biochemistry and Biophysics</i> , 1985 , 241, 673-83	4.1	24
27	Ras reduces L-type calcium channel current in cardiac myocytes. Corrective effects of L-channels and SERCA2 on [Ca(2+)](i) regulation and cell morphology. <i>Circulation Research</i> , 2001 , 88, 63-9	15.7	21
26	The ATF6-Met[67]Val substitution is associated with increased plasma cholesterol levels. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009 , 29, 1322-7	9.4	20
25	S100A4 protects the myocardium against ischemic stress. <i>Journal of Molecular and Cellular Cardiology</i> , 2016 , 100, 54-63	5.8	18
24	Expanding the Paracrine Hypothesis of Stem Cell-Mediated Repair in the Heart: When the Unconventional Becomes Conventional. <i>Circulation Research</i> , 2017 , 120, 772-774	15.7	17
23	Mesencephalic astrocyte-derived neurotrophic factor is an ER-resident chaperone that protects against reductive stress in the heart. <i>Journal of Biological Chemistry</i> , 2020 , 295, 7566-7583	5.4	17
22	p38 MAPK regulates group IIa phospholipase A2 expression in interleukin-1beta -stimulated rat neonatal cardiomyocytes. <i>Journal of Biological Chemistry</i> , 2001 , 276, 43842-9	5.4	17

21	Studies of ANF processing and secretion using a primary cardiocyte culture model. <i>Canadian Journal of Physiology and Pharmacology</i> , 1991 , 69, 1525-36	2.4	13
20	ATF6 [corrected] and thrombospondin 4: the dynamic duo of the adaptive endoplasmic reticulum stress response. <i>Circulation Research</i> , 2013 , 112, 9-12	15.7	11
19	Integrating ER and Mitochondrial Proteostasis in the Healthy and Diseased Heart. <i>Frontiers in Cardiovascular Medicine</i> , 2019 , 6, 193	5.4	10
18	Characterization of the molecular forms of ANP released by perfused neonatal rat heart. <i>Biochemical and Biophysical Research Communications</i> , 1987 , 146, 547-53	3.4	10
17	Acetylation of alpha MSH and beta-endorphin by rat neurointermediate pituitary secretory granule-associated acetyltransferase. <i>Peptides</i> , 1985 , 6, 615-20	3.8	10
16	Proteomic analysis of the cardiac myocyte secretome reveals extracellular protective functions for the ER stress response. <i>Journal of Molecular and Cellular Cardiology</i> , 2020 , 143, 132-144	5.8	9
15	Guanine nucleotide exchange factor-like factor (RLF) induces gene expression and potentiates alpha 1-adrenergic receptor-induced transcriptional responses in neonatal rat ventricular myocytes. <i>Journal of Biological Chemistry</i> , 2002 , 277, 15286-92	5.4	9
14	Finding the missing link between the unfolded protein response and O-GlcNAcylation in the heart. <i>Circulation Research</i> , 2014 , 115, 546-8	15.7	8
13	Classic studies of cultured cardiac myocyte hypertrophy: interview with a transformer. <i>Circulation Research</i> , 2013 , 113, 1112-6	15.7	8
12	Biochemical studies of soluble atrial natriuretic peptide (ANP) receptors from rat olfactory bulb and vascular smooth muscle cells. <i>Cellular and Molecular Neurobiology</i> , 1989 , 9, 57-73	4.6	8
11	ATF6 as a Nodal Regulator of Proteostasis in the Heart. <i>Frontiers in Physiology</i> , 2020 , 11, 267	4.6	7
10	Reactive Oxygen Species (ROS)-Activatable Prodrug for Selective Activation of ATF6 after Ischemia/Reperfusion Injury. <i>ACS Medicinal Chemistry Letters</i> , 2020 , 11, 292-297	4.3	5
9	Sledgehammer to Scalpel: Broad Challenges to the Heart and Other Tissues Yield Specific Cellular Responses via Transcriptional Regulation of the ER-Stress Master Regulator ATF6. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	4
8	The ER Unfolded Protein Response Effector, ATF6, Reduces Cardiac Fibrosis and Decreases Activation of Cardiac Fibroblasts. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	4
7	Chromatographic characterization of vasoactive intestinal polypeptide in guinea pig and rhesus monkey eyes. <i>Current Eye Research</i> , 1990 , 9, 287-91	2.9	4
6	The peroxisomal enzyme, FAR1, is induced during ER stress in an ATF6-dependent manner in cardiac myocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021 , 320, H1813-H1821	5.2	3
5	Designing Novel Therapies to Mend Broken Hearts: ATF6 and Cardiac Proteostasis. <i>Cells</i> , 2020 , 9,	7.9	2
4	Simultaneous Isolation and Culture of Atrial Myocytes, Ventricular Myocytes, and Non-Myocytes from an Adult Mouse Heart. <i>Journal of Visualized Experiments</i> , 2020 ,	1.6	2

3	Optimizing Adeno-Associated Virus Serotype 9 for Studies of Cardiac Chamber-Specific Gene Regulation. <i>Circulation</i> , 2021 , 143, 2025-2027	16.7	2
2	Getting a G-RRP on regulated exocytosis in the heart. <i>Journal of Cell Biology</i> , 2007 , 179, 371-3	7.3	1
1	Physiological signaling in the absence of amidated peptides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 19774-19776	11.5	0