

Joan Heller Brown

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170
papers

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67
h-index

121
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178
ext. papers

16,309
ext. citations

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avg, IF

6.27
L-index

#	Paper	IF	Citations
170	Cardiac muscle cell hypertrophy and apoptosis induced by distinct members of the p38 mitogen-activated protein kinase family. <i>Journal of Biological Chemistry</i> , 1998 , 273, 2161-8	5.4	666
169	The deltaC isoform of CaMKII is activated in cardiac hypertrophy and induces dilated cardiomyopathy and heart failure. <i>Circulation Research</i> , 2003 , 92, 912-9	15.7	456
168	Ca ²⁺ /calmodulin-dependent protein kinase II regulates cardiac Na ⁺ channels. <i>Journal of Clinical Investigation</i> , 2006 , 116, 3127-38	15.9	397
167	Local InsP3-dependent perinuclear Ca ²⁺ signaling in cardiac myocyte excitation-transcription coupling. <i>Journal of Clinical Investigation</i> , 2006 , 116, 675-82	15.9	374
166	Transgenic CaMKII δ C overexpression uniquely alters cardiac myocyte Ca ²⁺ handling: reduced SR Ca ²⁺ load and activated SR Ca ²⁺ release. <i>Circulation Research</i> , 2003 , 92, 904-11	15.7	374
165	Cardiotrophin 1 (CT-1) inhibition of cardiac myocyte apoptosis via a mitogen-activated protein kinase-dependent pathway. Divergence from downstream CT-1 signals for myocardial cell hypertrophy. <i>Journal of Biological Chemistry</i> , 1997 , 272, 5783-91	5.4	314
164	Linkage of β -adrenergic stimulation to apoptotic heart cell death through protein kinase A β -independent activation of Ca ²⁺ /calmodulin kinase II. <i>Journal of Clinical Investigation</i> , 2003 , 111, 617-625	15.9	310
163	CaMKII in myocardial hypertrophy and heart failure. <i>Journal of Molecular and Cellular Cardiology</i> , 2011 , 51, 468-73	5.8	306
162	The role of Rho in G protein-coupled receptor signal transduction. <i>Annual Review of Pharmacology and Toxicology</i> , 2000 , 40, 459-89	17.9	298
161	Requirement for Ca ²⁺ /calmodulin-dependent kinase II in the transition from pressure overload-induced cardiac hypertrophy to heart failure in mice. <i>Journal of Clinical Investigation</i> , 2009 , 119, 1230-40	15.9	291
160	Cyclophilin D controls mitochondrial pore-dependent Ca(2+) exchange, metabolic flexibility, and propensity for heart failure in mice. <i>Journal of Clinical Investigation</i> , 2010 , 120, 3680-7	15.9	286
159	The Rac and Rho hall of fame: a decade of hypertrophic signaling hits. <i>Circulation Research</i> , 2006 , 98, 730-42	15.7	277
158	Characterization of lpa(2) (Edg4) and lpa(1)/lpa(2) (Edg2/Edg4) lysophosphatidic acid receptor knockout mice: signaling deficits without obvious phenotypic abnormality attributable to lpa(2). <i>Molecular and Cellular Biology</i> , 2002 , 22, 6921-9	4.8	276
157	Cardiac hypertrophy induced by mitogen-activated protein kinase kinase 7, a specific activator for c-Jun NH2-terminal kinase in ventricular muscle cells. <i>Journal of Biological Chemistry</i> , 1998 , 273, 5423-6	5.4	267
156	MTORC1 regulates cardiac function and myocyte survival through 4E-BP1 inhibition in mice. <i>Journal of Clinical Investigation</i> , 2010 , 120, 2805-16	15.9	242
155	Rho and Rho kinase mediate thrombin-stimulated vascular smooth muscle cell DNA synthesis and migration. <i>Circulation Research</i> , 1999 , 84, 1186-93	15.7	235
154	Selective loss of sphingosine 1-phosphate signaling with no obvious phenotypic abnormality in mice lacking its G protein-coupled receptor, LP(B3)/EDG-3. <i>Journal of Biological Chemistry</i> , 2001 , 276, 33697-704	5.4	218

153	Role of Ca ²⁺ /calmodulin-dependent protein kinase II in cardiac hypertrophy and heart failure. <i>Cardiovascular Research</i> , 2004 , 63, 476-86	9.9	213
152	Regulation of the Hippo-YAP pathway by protease-activated receptors (PARs). <i>Genes and Development</i> , 2012 , 26, 2138-43	12.6	210
151	Rho as a mediator of G protein-coupled receptor signaling. <i>Molecular Pharmacology</i> , 1999 , 55, 949-56	4.3	207
150	Marked perinatal lethality and cellular signaling deficits in mice null for the two sphingosine 1-phosphate (S1P) receptors, S1P(2)/LP(B2)/EDG-5 and S1P(3)/LP(B3)/EDG-3. <i>Journal of Biological Chemistry</i> , 2002 , 277, 25152-9	5.4	204
149	G protein-coupled receptors and signaling pathways regulating growth responses. <i>FASEB Journal</i> , 1996 , 10, 741-9	0.9	202
148	Cardiac-specific overexpression of RhoA results in sinus and atrioventricular nodal dysfunction and contractile failure. <i>Journal of Clinical Investigation</i> , 1999 , 103, 1627-34	15.9	192
147	The cardiac-specific nuclear delta(B) isoform of Ca ²⁺ /calmodulin-dependent protein kinase II induces hypertrophy and dilated cardiomyopathy associated with increased protein phosphatase 2A activity. <i>Journal of Biological Chemistry</i> , 2002 , 277, 1261-7	5.4	191
146	Inhibition of cardiac myocyte apoptosis improves cardiac function and abolishes mortality in the peripartum cardiomyopathy of Galpha(q) transgenic mice. <i>Circulation</i> , 2003 , 108, 3036-41	16.7	187
145	An FHL1-containing complex within the cardiomyocyte sarcomere mediates hypertrophic biomechanical stress responses in mice. <i>Journal of Clinical Investigation</i> , 2008 , 118, 3870-80	15.9	184
144	The MEKK-JNK pathway is stimulated by alpha1-adrenergic receptor and ras activation and is associated with in vitro and in vivo cardiac hypertrophy. <i>Journal of Biological Chemistry</i> , 1997 , 272, 14057-61	5.4	180
143	Sphingosine 1-phosphate S1P2 and S1P3 receptor-mediated Akt activation protects against in vivo myocardial ischemia-reperfusion injury. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 292, H2944-51	5.2	177
142	Rho is required for Galphaq and alpha1-adrenergic receptor signaling in cardiomyocytes. Dissociation of Ras and Rho pathways. <i>Journal of Biological Chemistry</i> , 1996 , 271, 31185-90	5.4	172
141	Beta-adrenergic receptor signaling in the heart: role of CaMKII. <i>Journal of Molecular and Cellular Cardiology</i> , 2010 , 48, 322-30	5.8	171
140	G protein mediated signaling pathways in lysophospholipid induced cell proliferation and survival. <i>Journal of Cellular Biochemistry</i> , 2004 , 92, 949-66	4.7	171
139	APJ acts as a dual receptor in cardiac hypertrophy. <i>Nature</i> , 2012 , 488, 394-8	50.4	166
138	Linkage of beta1-adrenergic stimulation to apoptotic heart cell death through protein kinase A-independent activation of Ca ²⁺ /calmodulin kinase II. <i>Journal of Clinical Investigation</i> , 2003 , 111, 617-25	15.9	166
137	Sphingosine-1-phosphate receptor signalling in the heart. <i>Cardiovascular Research</i> , 2009 , 82, 193-200	9.9	165
136	The nuclear deltaB isoform of Ca ²⁺ /calmodulin-dependent protein kinase II regulates atrial natriuretic factor gene expression in ventricular myocytes. <i>Journal of Biological Chemistry</i> , 1997 , 272, 31203-8	5.4	164

135	CaMKII δ isoforms differentially affect calcium handling but similarly regulate HDAC/MEF2 transcriptional responses. <i>Journal of Biological Chemistry</i> , 2007 , 282, 35078-87	5.4	164
134	Increased sarcoplasmic reticulum calcium leak but unaltered contractility by acute CaMKII overexpression in isolated rabbit cardiac myocytes. <i>Circulation Research</i> , 2006 , 98, 235-44	15.7	162
133	Initiation and transduction of stretch-induced RhoA and Rac1 activation through caveolae: cytoskeletal regulation of ERK translocation. <i>Journal of Biological Chemistry</i> , 2003 , 278, 31111-7	5.4	156
132	The low molecular weight GTPase Rho regulates myofibril formation and organization in neonatal rat ventricular myocytes. Involvement of Rho kinase. <i>Journal of Biological Chemistry</i> , 1998 , 273, 7725-30	5.4	154
131	Calcium/calmodulin-dependent protein kinase II contributes to cardiac arrhythmogenesis in heart failure. <i>Circulation: Heart Failure</i> , 2009 , 2, 664-75	7.6	135
130	Gq signaling in cardiac adaptation and maladaptation. <i>Trends in Cardiovascular Medicine</i> , 1999 , 9, 26-34	6.9	135
129	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
128	c-Jun N-terminal kinase activation mediates downregulation of connexin43 in cardiomyocytes. <i>Circulation Research</i> , 2002 , 91, 640-7	15.7	127
127	Novel allosteric sites on Ras for lead generation. <i>PLoS ONE</i> , 2011 , 6, e25711	3.7	125
126	G α 12 stimulates c-Jun NH2-terminal kinase through the small G proteins Ras and Rac. <i>Journal of Biological Chemistry</i> , 1996 , 271, 17349-53	5.4	124
125	Ca ²⁺ /Calmodulin-dependent protein kinase II β mediates myocardial ischemia/reperfusion injury through nuclear factor- κ B. <i>Circulation Research</i> , 2013 , 112, 935-44	15.7	120
124	Increased expression and activity of RhoA are associated with increased DNA synthesis and reduced p27(Kip1) expression in the vasculature of hypertensive rats. <i>Circulation Research</i> , 2001 , 89, 488-95	15.7	119
123	Epac2 mediates cardiac β -adrenergic-dependent sarcoplasmic reticulum Ca ²⁺ leak and arrhythmia. <i>Circulation</i> , 2013 , 127, 913-22	16.7	117
122	RhoA/Rho kinase up-regulate Bax to activate a mitochondrial death pathway and induce cardiomyocyte apoptosis. <i>Journal of Biological Chemistry</i> , 2007 , 282, 8069-78	5.4	110
121	Inflammation and NLRP3 Inflammasome Activation Initiated in Response to Pressure Overload by Ca/Calmodulin-Dependent Protein Kinase II β Signaling in Cardiomyocytes Are Essential for Adverse Cardiac Remodeling. <i>Circulation</i> , 2018 , 138, 2530-2544	16.7	109
120	Endoplasmic reticulum-mitochondria crosstalk in NIX-mediated murine cell death. <i>Journal of Clinical Investigation</i> , 2009 , 119, 203-12	15.9	104
119	Role of phospholipase C β in physiological phosphoinositide signaling networks. <i>Cellular Signalling</i> , 2012 , 24, 1333-43	4.9	103
118	G-proteins in growth and apoptosis: lessons from the heart. <i>Oncogene</i> , 2001 , 20, 1626-34	9.2	102

117	Influence of neuroleptic drugs and apomorphine on dopamine-sensitive adenylate cyclase of retina. <i>Journal of Neurochemistry</i> , 1973 , 21, 477-9	6	100
116	Cardiomyocyte apoptosis induced by Galphaq signaling is mediated by permeability transition pore formation and activation of the mitochondrial death pathway. <i>Circulation Research</i> , 2000 , 87, 1180-7	15.7	99
115	Chronic inhalation of e-cigarette vapor containing nicotine disrupts airway barrier function and induces systemic inflammation and multiorgan fibrosis in mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018 , 314, R834-R847	3.2	97
114	A critical function for Ser-282 in cardiac Myosin binding protein-C phosphorylation and cardiac function. <i>Circulation Research</i> , 2011 , 109, 141-50	15.7	95
113	Phospholamban ablation rescues sarcoplasmic reticulum Ca(2+) handling but exacerbates cardiac dysfunction in CaMKIIdelta(C) transgenic mice. <i>Circulation Research</i> , 2010 , 106, 354-62	15.7	89
112	A rho exchange factor mediates thrombin and Galpha(12)-induced cytoskeletal responses. <i>Journal of Biological Chemistry</i> , 1999 , 274, 26815-21	5.4	87
111	PHLPP-1 negatively regulates Akt activity and survival in the heart. <i>Circulation Research</i> , 2010 , 107, 476-84.7	5.7	85
110	Akt regulates L-type Ca2+ channel activity by modulating Cavalpha1 protein stability. <i>Journal of Cell Biology</i> , 2009 , 184, 923-33	7.3	85
109	Akt mediated mitochondrial protection in the heart: metabolic and survival pathways to the rescue. <i>Journal of Bioenergetics and Biomembranes</i> , 2009 , 41, 169-80	3.7	85
108	Focal adhesion kinase as a RhoA-activable signaling scaffold mediating Akt activation and cardiomyocyte protection. <i>Journal of Biological Chemistry</i> , 2008 , 283, 35622-9	5.4	82
107	G12 requirement for thrombin-stimulated gene expression and DNA synthesis in 1321N1 astrocytoma cells. <i>Journal of Biological Chemistry</i> , 1995 , 270, 20073-7	5.4	80
106	Physical and functional interactions of Galphaq with Rho and its exchange factors. <i>Journal of Biological Chemistry</i> , 2001 , 276, 15445-52	5.4	78
105	Mitochondrial translocation of Nur77 mediates cardiomyocyte apoptosis. <i>European Heart Journal</i> , 2011 , 32, 2179-88	9.5	75
104	G Protein-Coupled Receptor and RhoA-Stimulated Transcriptional Responses: Links to Inflammation, Differentiation, and Cell Proliferation. <i>Molecular Pharmacology</i> , 2015 , 88, 171-80	4.3	67
103	RhoA protects the mouse heart against ischemia/reperfusion injury. <i>Journal of Clinical Investigation</i> , 2011 , 121, 3269-76	15.9	67
102	Rho kinase polymorphism influences blood pressure and systemic vascular resistance in human twins: role of heredity. <i>Hypertension</i> , 2006 , 47, 937-47	8.5	66
101	S1P1 receptor localization confers selectivity for Gi-mediated cAMP and contractile responses. <i>Journal of Biological Chemistry</i> , 2008 , 283, 11954-63	5.4	65
100	Requirement for Rho-mediated myosin light chain phosphorylation in thrombin-stimulated cell rounding and its dissociation from mitogenesis. <i>Journal of Biological Chemistry</i> , 1998 , 273, 10099-106	5.4	64

99	Phospholipase Cepsilon is a nexus for Rho and Rap-mediated G protein-coupled receptor-induced astrocyte proliferation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 15543-8	11.5	63
98	Location matters: clarifying the concept of nuclear and cytosolic CaMKII subtypes. <i>Circulation Research</i> , 2011 , 109, 1354-62	15.7	61
97	Tyrosine kinase and c-Jun NH2-terminal kinase mediate hypertrophic responses to prostaglandin F2alpha in cultured neonatal rat ventricular myocytes. <i>Circulation Research</i> , 1998 , 83, 167-78	15.7	61
96	RHO SIGNALING in vascular diseases. <i>Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics</i> , 2004 , 4, 348-57		61
95	Myocardin-Related Transcription Factor A and Yes-Associated Protein Exert Dual Control in G Protein-Coupled Receptor- and RhoA-Mediated Transcriptional Regulation and Cell Proliferation. <i>Molecular and Cellular Biology</i> , 2016 , 36, 39-49	4.8	59
94	Lysophosphatidic acid induces hypertrophy of neonatal cardiac myocytes via activation of Gi and Rho. <i>Journal of Molecular and Cellular Cardiology</i> , 2004 , 36, 481-93	5.8	58
93	Sphingosine 1-phosphate receptor 3 and RhoA signaling mediate inflammatory gene expression in astrocytes. <i>Journal of Neuroinflammation</i> , 2017 , 14, 111	10.1	57
92	Lysophospholipid receptor activation of RhoA and lipid signaling pathways. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2013 , 1831, 213-22	5	57
91	Akt-mediated cardiomyocyte survival pathways are compromised by G alpha q-induced phosphoinositide 4,5-bisphosphate depletion. <i>Journal of Biological Chemistry</i> , 2003 , 278, 40343-51	5.4	57
90	Phospholipase C epsilon links G protein-coupled receptor activation to inflammatory astrocytic responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 3609-14	11.5	56
89	Tumor necrosis factor-alpha-stimulated cell proliferation is mediated through sphingosine kinase-dependent Akt activation and cyclin D expression. <i>Journal of Biological Chemistry</i> , 2007 , 282, 863-70	5.4	56
88	CaMKII δ -mediated inflammatory gene expression and inflammasome activation in cardiomyocytes initiate inflammation and induce fibrosis. <i>JCI Insight</i> , 2018 , 3,	9.9	56
87	Cardiomyocyte calcium and calcium/calmodulin-dependent protein kinase II: friends or foes?. <i>Endocrine Reviews</i> , 2004 , 59, 141-68		54
86	CaMKII δ mediates β adrenergic effects on RyR2 phosphorylation and SR Ca(2+) leak and the pathophysiological response to chronic β adrenergic stimulation. <i>Journal of Molecular and Cellular Cardiology</i> , 2015 , 85, 282-91	5.8	53
85	CaMKII δ subtypes: localization and function. <i>Frontiers in Pharmacology</i> , 2014 , 5, 15	5.6	52
84	CaMKII-dependent phosphorylation of cardiac ryanodine receptors regulates cell death in cardiac ischemia/reperfusion injury. <i>Journal of Molecular and Cellular Cardiology</i> , 2014 , 74, 274-83	5.8	51
83	Akt increases sarcoplasmic reticulum Ca ²⁺ cycling by direct phosphorylation of phospholamban at Thr17. <i>Journal of Biological Chemistry</i> , 2009 , 284, 28180-28187	5.4	50
82	Ca ²⁺ dysregulation induces mitochondrial depolarization and apoptosis: role of Na ⁺ /Ca ²⁺ exchanger and AKT. <i>Journal of Biological Chemistry</i> , 2005 , 280, 38505-12	5.4	50

81	PLC β PKD1, and SSH1L transduce RhoA signaling to protect mitochondria from oxidative stress in the heart. <i>Science Signaling</i> , 2013 , 6, ra108	8.8	48
80	Upregulation of GLUT1 expression is necessary for hypertrophy and survival of neonatal rat cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2003 , 35, 1217-27	5.8	43
79	Cardiac hypertrophy and heart failure development through Gq and CaM kinase II signaling. <i>Journal of Cardiovascular Pharmacology</i> , 2010 , 56, 598-603	3.1	42
78	Revisited and revised: is RhoA always a villain in cardiac pathophysiology?. <i>Journal of Cardiovascular Translational Research</i> , 2010 , 3, 330-43	3.3	42
77	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
76	Intracellular signalling mechanism responsible for modulation of sarcolemmal ATP-sensitive potassium channels by nitric oxide in ventricular cardiomyocytes. <i>Journal of Physiology</i> , 2014 , 592, 971-989	3.9	40
75	The Ras-related protein, Rap1A, mediates thrombin-stimulated, integrin-dependent glioblastoma cell proliferation and tumor growth. <i>Journal of Biological Chemistry</i> , 2014 , 289, 17689-98	5.4	40
74	Thrombin receptor and RhoA mediate cell proliferation through integrins and cysteine-rich protein 61. <i>FASEB Journal</i> , 2008 , 22, 4011-21	0.9	37
73	The Rho effector, PKN, regulates ANF gene transcription in cardiomyocytes through a serum response element. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000 , 278, H1769-74	5.2	37
72	Mitochondrial reprogramming induced by CaMKII δ mediates hypertrophy decompensation. <i>Circulation Research</i> , 2015 , 116, e28-39	15.7	36
71	Hyperglycemia Acutely Increases Cytosolic Reactive Oxygen Species via α -linked GlcNAcylation and CaMKII Activation in Mouse Ventricular Myocytes. <i>Circulation Research</i> , 2020 , 126, e80-e96	15.7	36
70	YAP and MRTF-A, transcriptional co-activators of RhoA-mediated gene expression, are critical for glioblastoma tumorigenicity. <i>Oncogene</i> , 2018 , 37, 5492-5507	9.2	35
69	Nonequilibrium reactivation of Na ⁺ current drives early afterdepolarizations in mouse ventricle. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2014 , 7, 1205-13	6.4	35
68	Galphaq expression activates EGFR and induces Akt mediated cardiomyocyte survival: dissociation from Galphaq mediated hypertrophy. <i>Journal of Molecular and Cellular Cardiology</i> , 2006 , 40, 597-604	5.8	32
67	G protein-coupled receptors go extracellular: RhoA integrates the integrins. <i>Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics</i> , 2008 , 8, 165-73		31
66	beta-Adrenergic receptor stimulated Ncx1 upregulation is mediated via a CaMKII/AP-1 signaling pathway in adult cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2010 , 48, 342-51	5.8	30
65	The G12 coupled thrombin receptor stimulates mitogenesis through the Shc SH2 domain. <i>Oncogene</i> , 1997 , 15, 595-600	9.2	30
64	RGS16 inhibits signalling through the G alpha 13-Rho axis. <i>Nature Cell Biology</i> , 2003 , 5, 1095-103	23.4	30

63	Muscarinic-dopaminergic synergism on retinal cyclic AMP formation. <i>Brain Research</i> , 1981 , 215, 388-92	3.7	30
62	Rho-mediated cytoskeletal rearrangement in response to LPA is functionally antagonized by Rac1 and PIP2. <i>Journal of Neurochemistry</i> , 2004 , 91, 501-12	6	29
61	Overexpression of CaMKII β in RyR2R4496C+/- knock-in mice leads to altered intracellular Ca ²⁺ handling and increased mortality. <i>Journal of the American College of Cardiology</i> , 2011 , 57, 469-79	15.1	28
60	Protein kinase C epsilon-dependent activation of proline-rich tyrosine kinase 2 in neonatal rat ventricular myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2003 , 35, 1121-33	5.8	28
59	Inositol polyphosphate 1-phosphatase is a novel antihypertrophic factor. <i>Journal of Biological Chemistry</i> , 2002 , 277, 22734-42	5.4	28
58	RhoA regulates Drp1 mediated mitochondrial fission through ROCK to protect cardiomyocytes. <i>Cellular Signalling</i> , 2018 , 50, 48-57	4.9	28
57	Bitopic Sphingosine 1-Phosphate Receptor 3 (S1P3) Antagonist Rescue from Complete Heart Block: Pharmacological and Genetic Evidence for Direct S1P3 Regulation of Mouse Cardiac Conduction. <i>Molecular Pharmacology</i> , 2016 , 89, 176-86	4.3	27
56	Induction of the matricellular protein CCN1 through RhoA and MRTF-A contributes to ischemic cardioprotection. <i>Journal of Molecular and Cellular Cardiology</i> , 2014 , 75, 152-61	5.8	26
55	Phosphoinositide-generated second messengers in cardiac signal transduction. <i>Trends in Cardiovascular Medicine</i> , 1992 , 2, 209-14	6.9	26
54	CaMKII δ slows [Ca] ⁱ decline in cardiac myocytes by promoting Ca sparks. <i>Biophysical Journal</i> , 2012 , 102, 2461-70	2.9	25
53	Does phosphoinositide hydrolysis mediate inhibitory as well as excitatory muscarinic responses?. <i>Trends in Pharmacological Sciences</i> , 1984 , 5, 417-419	13.2	25
52	M1 muscarinic receptors heterologously expressed in cardiac myocytes mediate Ras-dependent changes in gene expression. <i>Journal of Biological Chemistry</i> , 1995 , 270, 8446-51	5.4	23
51	Selective coupling of the S1P receptor subtype to S1P-mediated RhoA activation and cardioprotection. <i>Journal of Molecular and Cellular Cardiology</i> , 2017 , 103, 1-10	5.8	22
50	Inflammation in nonischemic heart disease: initiation by cardiomyocyte CaMKII and NLRP3 inflammasome signaling. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019 , 317, H877-H890	5.2	22
49	Differences and similarities in muscarinic receptors of rat heart and retina: effects of agonists, guanine nucleotides, and N-ethylmaleimide. <i>Journal of Neurochemistry</i> , 1984 , 43, 214-20	6	22
48	Decline in cellular function of aged mouse c-kit cardiac progenitor cells. <i>Journal of Physiology</i> , 2017 , 595, 6249-6262	3.9	21
47	In vivo selective expression of thyroid hormone receptor β in endothelial cells attenuates myocardial injury in experimental myocardial infarction in mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014 , 307, R340-6	3.2	21
46	UTP but not ATP causes hypertrophic growth in neonatal rat cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2003 , 35, 287-92	5.8	19

45	PLC β -mediated sustained signaling pathways. <i>Advances in Biological Regulation</i> , 2015 , 57, 17-23	6.2	18
44	The promise of CaMKII inhibition for heart disease: preventing heart failure and arrhythmias. <i>Expert Opinion on Therapeutic Targets</i> , 2013 , 17, 889-903	6.4	17
43	A secretory pathway kinase regulates sarcoplasmic reticulum Ca homeostasis and protects against heart failure. <i>ELife</i> , 2018 , 7,	8.9	16
42	Sphingosine 1-phosphate elicits RhoA-dependent proliferation and MRTF-A mediated gene induction in CPCs. <i>Cellular Signalling</i> , 2016 , 28, 871-9	4.9	15
41	CaMKII δ Drives Early Adaptive Ca Change and Late Eccentric Cardiac Hypertrophy. <i>Circulation Research</i> , 2020 , 127, 1159-1178	15.7	15
40	Reductions in the Cardiac Transient Outward K ⁺ Current I _{to} Caused by Chronic β Adrenergic Receptor Stimulation Are Partly Rescued by Inhibition of Nuclear Factor κ B. <i>Journal of Biological Chemistry</i> , 2016 , 291, 4156-65	5.4	14
39	Identification of potential small molecule binding pockets on Rho family GTPases. <i>PLoS ONE</i> , 2012 , 7, e40809	3.7	14
38	Cardioprotective stimuli mediate phosphoinositide 3-kinase and phosphoinositide dependent kinase 1 nuclear accumulation in cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2009 , 47, 96-103	5.8	14
37	Pathways and roadblocks in muscarinic receptor-mediated growth regulation. <i>Life Sciences</i> , 1997 , 60, 1077-1084	6.8	14
36	Crossing signals: relationships between β adrenergic stimulation and CaMKII activation. <i>Heart Rhythm</i> , 2011 , 8, 1296-8	6.7	13
35	Pertussis toxin-sensitive and -insensitive thrombin stimulation of Shc phosphorylation and mitogenesis are mediated through distinct pathways. <i>Molecular Endocrinology</i> , 1999 , 13, 1988-2001		12
34	Thrombin promotes sustained signaling and inflammatory gene expression through the CDC25 and Ras-associating domains of phospholipase C γ . <i>Journal of Biological Chemistry</i> , 2015 , 290, 26776-83	5.4	9
33	A 22 kDa ras-related G-protein is the substrate for an ADP-ribosyltransferase from Clostridium botulinum. <i>FEBS Letters</i> , 1988 , 238, 22-6	3.8	9
32	Exercise training reverses myocardial dysfunction induced by CaMKII δ overexpression by restoring Ca ²⁺ homeostasis. <i>Journal of Applied Physiology</i> , 2016 , 121, 212-20	3.7	8
31	SiglecF(HI) Marks Late-Stage Neutrophils of the Infarcted Heart: A Single-Cell Transcriptomic Analysis of Neutrophil Diversification. <i>Journal of the American Heart Association</i> , 2021 , 10, e019019	6	8
30	Dephosphorylation and activation of exogenous glycogen synthase by adipose-tissue phosphatase. <i>Biochemical Journal</i> , 1980 , 188, 221-8	3.8	7
29	Pertussis Toxin-Sensitive and -Insensitive Thrombin Stimulation of Shc Phosphorylation and Mitogenesis Are Mediated through Distinct Pathways		6
28	Spatiotemporal restriction of endothelial cell calcium signaling is required during leukocyte transmigration. <i>Journal of Experimental Medicine</i> , 2021 , 218,	16.6	4

27	Pulsatile equibiaxial stretch inhibits thrombin-induced RhoA and NF-kappaB activation. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 372, 216-20	3.4	3
26	Muscarinic Cholinergic Receptor Regulation of Inositol Phospholipid Metabolism and Calcium Mobilization 1989 , 259-307		3
25	The First 50 Years of Molecular Pharmacology. <i>Molecular Pharmacology</i> , 2015 , 88, 139-40	4.3	2
24	Effects of mango and mint pod-based e-cigarette aerosol inhalation on inflammatory states of the brain, lung, heart, and colon in mice.. <i>ELife</i> , 2022 , 11,	8.9	2
23	Co-occurrence of BAP1 and SF3B1 mutations in uveal melanoma induces cellular senescence. <i>Molecular Oncology</i> , 2021 ,	7.9	1
22	Histamine-induced biphasic activation of RhoA allows for persistent RhoA signaling. <i>PLoS Biology</i> , 2020 , 18, e3000866	9.7	1
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20	The contribution of the cardiomyocyte to tissue inflammation in cardiomyopathies.. <i>Current Opinion in Physiology</i> , 2021 , 19, 129-134	2.6	1
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