

Ruben Mestril

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55
papers

4,134
citations

31
h-index

57
g-index

57
ext. papers

4,338
ext. citations

4.9
avg, IF

4.67
L-index

#	Paper	IF	Citations
55	HSP72 protects against obesity-induced insulin resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 1739-44	11.5	397
54	Small heat shock proteins and protection against ischemic injury in cardiac myocytes. <i>Circulation</i> , 1997 , 96, 4343-8	16.7	264
53	Progressive decrease in chaperone protein levels in a mouse model of Huntington's disease and induction of stress proteins as a therapeutic approach. <i>Human Molecular Genetics</i> , 2004 , 13, 1389-405	5.6	261
52	Mice overexpressing rat heat shock protein 70 are protected against cerebral infarction. <i>Annals of Neurology</i> , 2000 , 47, 782-791	9.4	255
51	Losing heart: the role of apoptosis in heart disease--a novel therapeutic target?. <i>FASEB Journal</i> , 2002 , 16, 135-46	0.9	250
50	Combined and individual mitochondrial HSP60 and HSP10 expression in cardiac myocytes protects mitochondrial function and prevents apoptotic cell deaths induced by simulated ischemia-reoxygenation. <i>Circulation</i> , 2001 , 103, 1787-92	16.7	225
49	Ca ²⁺ /Calmodulin-dependent protein kinase II phosphorylation of ryanodine receptor does affect calcium sparks in mouse ventricular myocytes. <i>Circulation Research</i> , 2006 , 99, 398-406	15.7	213
48	Overexpression of HSP70 in mouse skeletal muscle protects against muscle damage and age-related muscle dysfunction. <i>FASEB Journal</i> , 2004 , 18, 355-7	0.9	198
47	Hsp10 and Hsp60 modulate Bcl-2 family and mitochondria apoptosis signaling induced by doxorubicin in cardiac muscle cells. <i>Journal of Molecular and Cellular Cardiology</i> , 2003 , 35, 1135-43	5.8	176
46	Overexpression of heat shock protein 72 in transgenic mice decreases infarct size in vivo. <i>Circulation</i> , 1996 , 94, 1408-11	16.7	167
45	Effect of lifelong overexpression of HSP70 in skeletal muscle on age-related oxidative stress and adaptation after nondamaging contractile activity. <i>FASEB Journal</i> , 2006 , 20, 1549-51	0.9	140
44	Impairment of the ubiquitin-proteasome system in desminopathy mouse hearts. <i>FASEB Journal</i> , 2006 , 20, 362-4	0.9	128
43	CHIP and HSPs interact with beta-APP in a proteasome-dependent manner and influence Abeta metabolism. <i>Human Molecular Genetics</i> , 2007 , 16, 848-64	5.6	128
42	4-Tertiary butyl phenol exposure sensitizes human melanocytes to dendritic cell-mediated killing: relevance to vitiligo. <i>Journal of Investigative Dermatology</i> , 2005 , 124, 798-806	4.3	116
41	Interleukin-18 is a pro-hypertrophic cytokine that acts through a phosphatidylinositol 3-kinase-phosphoinositide-dependent kinase-1-Akt-GATA4 signaling pathway in cardiomyocytes. <i>Journal of Biological Chemistry</i> , 2005 , 280, 4553-67	5.4	99
40	Differential effects of mitochondrial heat shock protein 60 and related molecular chaperones to prevent intracellular beta-amyloid-induced inhibition of complex IV and limit apoptosis. <i>Journal of Biological Chemistry</i> , 2006 , 281, 29468-78	5.4	98
39	Simultaneous overexpression of two stress proteins in rat cardiomyocytes and myogenic cells confers protection against ischemia-induced injury. <i>Circulation</i> , 1997 , 96, 2287-94	16.7	85

38	Aberrant protein aggregation is essential for a mutant desmin to impair the proteolytic function of the ubiquitin-proteasome system in cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2006 , 40, 451-4	5.8	84
37	Adenovirus-mediated gene transfer of a heat shock protein 70 (hsp 70i) protects against simulated ischemia. <i>Journal of Molecular and Cellular Cardiology</i> , 1996 , 28, 2351-8	5.8	81
36	Overexpression of inducible 70-kDa heat shock protein in mouse attenuates skeletal muscle damage induced by cryolesioning. <i>American Journal of Physiology - Cell Physiology</i> , 2006 , 290, C1128-38	5.4	69
35	Hsp10 and Hsp60 suppress ubiquitination of insulin-like growth factor-1 receptor and augment insulin-like growth factor-1 receptor signaling in cardiac muscle: implications on decreased myocardial protection in diabetic cardiomyopathy. <i>Journal of Biological Chemistry</i> , 2003 , 278, 45492-8	5.4	68
34	Mediators of ischemic preconditioning identified by microarray analysis of rat spinal cord. <i>Experimental Neurology</i> , 2004 , 185, 81-96	5.7	54
33	Role of protein kinase C-epsilon in hypertrophy of cultured neonatal rat ventricular myocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001 , 280, H756-66	5.2	48
32	Induction of heat shock proteins by tyrosine kinase inhibitors in rat cardiomyocytes and myogenic cells confers protection against simulated ischemia. <i>Journal of Molecular and Cellular Cardiology</i> , 1997 , 29, 1927-38	5.8	45
31	Radical activates heat shock protein expression and cardioprotection in neonatal rat cardiomyocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004 , 287, H1081-8	5.2	44
30	Heat shock factor 1-mediated thermotolerance prevents cell death and results in G2/M cell cycle arrest. <i>Cell Stress and Chaperones</i> , 2001 , 6, 326-36	4	43
29	Dynamic changes in free Ca-calmodulin levels in adult cardiac myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2006 , 41, 451-8	5.8	40
28	Protection against endotoxemia by HSP70 in rodent cardiomyocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000 , 278, H1439-45	5.2	38
27	Overexpression of inducible 70-kDa heat shock protein in mouse improves structural and functional recovery of skeletal muscles from atrophy. <i>Pflugers Archiv European Journal of Physiology</i> , 2012 , 463, 733-41	4.6	36
26	Ecdysterone selectively stimulates the expression of a 23000-Da heat-shock protein-beta-galactosidase hybrid gene in cultured Drosophila cells. <i>Developmental Biology</i> , 1985 , 110, 321-30	3.1	34
25	Troponin I levels in patients with preeclampsia. <i>American Journal of Medicine</i> , 2007 , 120, 819.e13-4	2.4	33
24	Overexpression of HSP10 in skeletal muscle of transgenic mice prevents the age-related fall in maximum tetanic force generation and muscle Cross-Sectional Area. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2010 , 299, R268-76	3.2	31
23	Specific heat shock proteins protect microtubules during simulated ischemia in cardiac myocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1998 , 275, H2243-9	5.2	31
22	Functional properties of skeletal muscle from transgenic animals with upregulated heat shock protein 70. <i>Physiological Genomics</i> , 2000 , 4, 25-33	3.6	24
21	Phosphorylation and binding of AUF1 to the 3' untranslated region of cardiomyocyte SERCA2a mRNA. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 289, H2543-50	5.2	23

20	Downregulation of the constitutively expressed Hsc70 in diabetic myocardium is mediated by insulin deficiency. <i>Journal of Endocrinology</i> , 2006 , 190, 433-40	4.7	18
19	Importance of small heat shock protein 20 (hsp20) C-terminal extension in cardioprotection. <i>Journal of Molecular and Cellular Cardiology</i> , 2007 , 42, 862-9	5.8	18
18	Spinal heat shock protein (70) expression: effect of spinal ischemia, hyperthermia (42 degrees C)/hypothermia (27 degrees C), NMDA receptor activation and potassium evoked depolarization on the induction. <i>Neurochemistry International</i> , 2004 , 44, 53-64	4.4	13
17	Overexpression of heat shock proteins differentially modulates protein kinase C expression in rat neonatal cardiomyocytes. <i>Cell Stress and Chaperones</i> , 2003 , 8, 297-302	4	11
16	Influence of PKC-alpha overexpression on HSP70 and cardioprotection. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 292, H2220-6	5.2	9
15	Protein kinase C-Interaction with iHSP70 in mitochondria promotes recovery of mitochondrial function after injury in renal proximal tubular cells. <i>American Journal of Physiology - Renal Physiology</i> , 2013 , 305, F764-76	4.3	8
14	Mice overexpressing rat heat shock protein 70 are protected against cerebral infarction 2000 , 47, 782		8
13	The use of transgenic mice to study cytoprotection by the stress proteins. <i>Methods</i> , 2005 , 35, 165-9	4.6	6
12	Mutation of COOH-terminal lysines in overexpressed alpha B-crystallin abrogates ischemic protection in cardiomyocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002 , 283, H85-91	5.2	6
11	Heat shock and adaptive response to ischemia. <i>Trends in Cardiovascular Medicine</i> , 1991 , 1, 240-4	6.9	6
10	Hyperthermia: from diagnostic and treatments to new discoveries. <i>Recent Patents on Biotechnology</i> , 2012 , 6, 172-83	2.2	3
9	Stress protein involvement in cardioprotection induced by hypothermia. <i>Journal of Molecular and Cellular Cardiology</i> , 2001 , 33, 2075-8	5.8	1
8	Overexpression of HSP70 attenuates sarcopenia by suppressing the expression of miR-133b. <i>JCSM Rapid Communications</i> , 2020 , 3, 70-76	2.6	1
7	Cardiomyocyte protection by Hsp70 and Hsc70 from oxidative stress induced apoptosis. <i>FASEB Journal</i> , 2006 , 20, A119	0.9	
6	Potential mechanisms of heat shock protein 90 inhibitors in rat neonatal ventricular myocytes. <i>FASEB Journal</i> , 2006 , 20, A386	0.9	
5	Ischemia, Infarction and HSP70. <i>Developments in Cardiovascular Medicine</i> , 1997 , 25-39		
4	Evidence That The Overexpression Of The Inducible Heat Shock Protein 70 In Mouse Improves Recovery Of Skeletal Muscle From Atrophy. <i>FASEB Journal</i> , 2011 , 25, 1050.3	0.9	
3	Increased expression of heat shock proteins in skeletal muscle induces autophagy. <i>FASEB Journal</i> , 2012 , 26, lb680	0.9	

- 2 Preservation of skeletal muscle by the heat shock proteins following frostbite injury. *FASEB Journal*, **2013**, 27, 1200.1 0.9
- 1 Increased Heat Shock Protein Expression Decreases Inflammation in Skeletal Muscle During and after Frostbite Injury. *Current Molecular Medicine*, **2020**, 20, 733-740 2.5