

CITATION REPORT

List of articles citing

Altered Ca²⁺ responses in muscles with combined mitochondrial and cytosolic creatine kinase deficiencies

DOI: 10.1016/s0092-8674(00)80186-5
Cell, 1997, 89, 93-103.

Source: <https://exaly.com/paper-pdf/28323263/citation-report.pdf>

Version: 2024-04-27

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper	IF	Citations
244	Functional equivalence of creatine kinase isoforms in mouse skeletal muscle. 1997 , 272, 17790-4		25
243	Cytoarchitectural and metabolic adaptations in muscles with mitochondrial and cytosolic creatine kinase deficiencies. <i>Molecular and Cellular Biochemistry</i> , 1998 , 184, 183-194	4.2	64
242	Quantitative studies of enzyme-substrate compartmentation, functional coupling and metabolic channelling in muscle cells. <i>Molecular and Cellular Biochemistry</i> , 1998 , 184, 291-307	4.2	43
241	Functional aspects of the X-ray structure of mitochondrial creatine kinase: A molecular physiology approach. <i>Molecular and Cellular Biochemistry</i> , 1998 , 184, 125-140	4.2	82
240	Dual regulation of the AMP-activated protein kinase provides a novel mechanism for the control of creatine kinase in skeletal muscle. 1998 , 17, 1688-99		251
239	Some new aspects of creatine kinase (CK): compartmentation, structure, function and regulation for cellular and mitochondrial bioenergetics and physiology. 1998 , 8, 229-34		187
238	Creatine kinase: an enzyme with a central role in cellular energy metabolism. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 1998 , 6, 116-9	2.8	54
237	Creatine kinase knockout mice--what is the phenotype: Heart. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 1998 , 6, 120-121	2.8	8
236	Creatine kinase knockout mice--what is the phenotype: skeletal muscle. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 1998 , 6, 122-3	2.8	2
235	Creatine kinase: An enzyme with a central role in cellular energy metabolism. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 1998 , 6, 116-119	2.8	1
234	Creatine kinase knockout mice--what is the phenotype: Heart. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 1998 , 6, 120-121	2.8	
233	Creatine kinase knockout mice--what is the phenotype: skeletal muscle. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 1998 , 6, 122-123	2.8	1
232	Induction of nuclear respiratory factor-1 expression by an acute bout of exercise in rat muscle. 1998 , 1381, 113-22		63
231	Creatine supplementation improves intracellular Ca ²⁺ handling and survival in mdx skeletal muscle cells. 1998 , 439, 357-62		94
230	Bioenergetics of the Cell: Quantitative Aspects. 1998 ,		2
229	Impaired cardiac energetics in mice lacking muscle-specific isoenzymes of creatine kinase. <i>Circulation Research</i> , 1998 , 82, 898-907	15.7	165
228	Cloning, characterization, and expression in Escherichia coli of three creatine kinase muscle isoenzyme cDNAs from carp (<i>Cyprinus carpio</i>) striated muscle. 1998 , 273, 33774-80		38

227	Neuroprotective effects of creatine and cyclocreatine in animal models of Huntington's disease. 1998 , 18, 156-63		365
226	Alterations in AMP deaminase activity and kinetics in skeletal muscle of creatine kinase-deficient mice. 1998 , 274, C1411-6		11
225	Absence of myofibrillar creatine kinase and diaphragm isometric function during repetitive activation. 1998 , 84, 1166-73		19
224	Subcellular creatine kinase alterations. Implications in heart failure. <i>Circulation Research</i> , 1999 , 85, 68-76	15.7	126
223	Effects of creatine phosphate on Ca ²⁺ regulation by the sarcoplasmic reticulum in mechanically skinned rat skeletal muscle fibres. <i>Journal of Physiology</i> , 1999 , 517 (Pt 2), 447-58	3.9	25
222	Stimulation of mitochondrial gene expression and proliferation of mitochondria following impairment of cellular energy transfer by inhibition of the phosphocreatine circuit in rat hearts. 1999 , 31, 559-67		39
221	Reduced activity of enzymes coupling ATP-generating with ATP-consuming processes in the failing myocardium. <i>Molecular and Cellular Biochemistry</i> , 1999 , 201, 33-40	4.2	43
220	Structure and assembly of the sarcomeric M Band. 1999 , 138, 163-202		4
219	Differentiation markers of mouse C2C12 and rat L6 myogenic cell lines and the effect of the differentiation medium. 1999 , 35, 219-27		34
218	Direct measurement of high-energy phosphate compounds in patients with neuromuscular disease. 1999 , 22, 1228-33		98
217	Effects of ischemia on skeletal muscle energy metabolism in mice lacking creatine kinase monitored by in vivo ³¹ P nuclear magnetic resonance spectroscopy. <i>NMR in Biomedicine</i> , 1999 , 12, 327-34	4.4	34
216	Imaging transgenic animals. 1999 , 1, 611-48		78
215	Adenylate kinase-catalyzed phosphotransfer in the myocardium : increased contribution in heart failure. <i>Circulation Research</i> , 1999 , 84, 1137-43	15.7	179
214	Introduction to in vivo ³¹ P magnetic resonance spectroscopy of (human) skeletal muscle. 1999 , 58, 861-70		32
213	Structure and assembly of the sarcomeric M band. 1999 , 138, 163-202		5
212	Neuroprotective effects of creatine in a transgenic mouse model of Huntington's disease. 2000 , 20, 4389-97		454
211	Potential benefits of creatine monohydrate supplementation in the elderly. 2000 , 3, 497-502		37
210	Proton MR spectroscopy of wild-type and creatine kinase deficient mouse skeletal muscle: dipole-dipole coupling effects and post-mortem changes. 2000 , 43, 517-24		41

209	1H and (31)P magnetization transfer studies of hindleg muscle in wild-type and creatine kinase-deficient mice. 2000 , 43, 657-64	22
208	Role of the creatine/phosphocreatine system in the regulation of mitochondrial respiration. 2000 , 168, 635-41	67
207	Tubular aggregates in the skeletal muscle of the senescence-accelerated mouse; SAM. 2000 , 114, 89-99	21
206	Neuroprotective effects of creatine administration against NMDA and malonate toxicity. 2000 , 860, 195-8	62
205	Adenylate kinase 1 gene deletion disrupts muscle energetic economy despite metabolic rearrangement. 2000 , 19, 6371-81	124
204	Failing energetics in failing hearts. 2000 , 2, 212-7	86
203	Functional significance of Ca ²⁺ in long-lasting fatigue of skeletal muscle. 2000 , 83, 166-74	107
202	No acute effects of short-term creatine supplementation on muscle properties and sprint performance. 2000 , 82, 223-9	45
201	Accurate assessment of in situ isometric contractile properties of hindlimb plantar and dorsal flexor muscle complex of intact mice. 2000 , 439, 665-670	3
200	Creatine and creatinine metabolism. <i>Physiological Reviews</i> , 2000 , 80, 1107-213	47.9 1761
199	Is creatine kinase responsible for fatigue? Studies of isolated skeletal muscle deficient in creatine kinase. 2000 , 14, 982-90	79
198	Myofibrillar or mitochondrial creatine kinase deficiency alone does not impair mouse diaphragm isotonic function. 2000 , 88, 973-80	16
197	Frontiers in Physiology: Joint Meeting of the Scandinavian and American Physiological Societies, Stockholm, Sweden, August 16-19, 2000. 2000 , 170, 270-270	
196	Noninvasive measurement of gene expression in skeletal muscle. 2000 , 97, 5151-5	81
195	Creatine kinase, an ATP-generating enzyme, is required for thrombin receptor signaling to the cytoskeleton. 2000 , 97, 12062-7	68
194	Kinetic, thermodynamic, and developmental consequences of deleting creatine kinase isoenzymes from the heart. Reaction kinetics of the creatine kinase isoenzymes in the intact heart. 2000 , 275, 19742-6	78
193	Compromised energetics in the adenylate kinase AK1 gene knockout heart under metabolic stress. 2000 , 275, 41424-9	68
192	Glycolysis supports calcium uptake by the sarcoplasmic reticulum in skinned ventricular fibres of mice deficient in mitochondrial and cytosolic creatine kinase. 2000 , 32, 891-902	46

191	Accurate assessment of in situ isometric contractile properties of hindlimb plantar and dorsal flexor muscle complex of intact mice. 2000 , 439, 665-70		9
190	Creatine supplementation: exploring the role of the creatine kinase/phosphocreatine system in human muscle. 2001 , 26 Suppl, S79-102		29
189	Role of creatine kinase isoenzymes on muscular and cardiorespiratory endurance: genetic and molecular evidence. 2001 , 31, 919-34		32
188	Creatine increase survival and delays motor symptoms in a transgenic animal model of Huntington's disease. 2001 , 8, 479-91		237
187	Adenylate kinase phosphotransfer communicates cellular energetic signals to ATP-sensitive potassium channels. 2001 , 98, 7623-8		213
186	Changes in mRNA expression profile underlie phenotypic adaptations in creatine kinase-deficient muscles. 2001 , 506, 73-8		23
185	A Gain of Function of the Huntington's Disease and Amyotrophic Lateral Sclerosis-Associated Genetic Mutations May Be a Loss of Bioenergetics. 2001 , 173-185		
184	Impaired muscular contractile performance and adenine nucleotide handling in creatine kinase-deficient mice. 2001 , 281, E619-25		14
183	The effect of Mg ²⁺ on cardiac muscle function: Is CaATP the substrate for priming myofibril cross-bridge formation and Ca ²⁺ reuptake by the sarcoplasmic reticulum?. 2001 , 354, 539-51		7
182	The effect of Mg ²⁺ on cardiac muscle function: is CaATP the substrate for priming myofibril cross-bridge formation and Ca ²⁺ reuptake by the sarcoplasmic reticulum?. 2001 , 354, 539-551		10
181	Murine muscles deficient in creatine kinase tolerate repeated series of high-intensity contractions. 2001 , 443, 274-9		3
180	Creatine transporter and mitochondrial creatine kinase protein content in myopathies. 2001 , 24, 682-8		71
179	Changes in glycolytic network and mitochondrial design in creatine kinase-deficient muscles. 2001 , 24, 1188-96		45
178	Potential for creatine and other therapies targeting cellular energy dysfunction in neurological disorders. 2001 , 49, 561-574		196
177	Mdx myotubes have normal excitability but show reduced contraction-relaxation dynamics. 2001 , 22, 69-75		19
176	Inhibition of creatine kinase reduces the rate of fatigue-induced decrease in tetanic [Ca ²⁺] _i in mouse skeletal muscle. <i>Journal of Physiology</i> , 2001 , 533, 639-49	3.9	34
175	Role of myoplasmic phosphate in contractile function of skeletal muscle: studies on creatine kinase-deficient mice. <i>Journal of Physiology</i> , 2001 , 533, 379-88	3.9	68
174	Role of phosphate and calcium stores in muscle fatigue. <i>Journal of Physiology</i> , 2001 , 536, 657-65	3.9	187

173	Ion-dependence of Z-line and M-line response to calcium in striated muscle fibres in rigor. 2001 , 30, 297-309		4
172	Mitochondrial calcium oscillations in C2C12 myotubes. 2001 , 276, 3791-7		23
171	Cellular energetics in the preconditioned state: protective role for phosphotransfer reactions captured by ¹⁸ O-assisted ³¹ P NMR. 2001 , 276, 44812-9		84
170	Energetic crosstalk between organelles: architectural integration of energy production and utilization. <i>Circulation Research</i> , 2001 , 89, 153-9	15.7	223
169	The creatine kinase system is essential for optimal refill of the sarcoplasmic reticulum Ca ²⁺ store in skeletal muscle. 2002 , 277, 5275-84		42
168	Coupling of cell energetics with membrane metabolic sensing. Integrative signaling through creatine kinase phosphotransfer disrupted by M-CK gene knock-out. 2002 , 277, 24427-34		117
167	Cultivation in glucose-deprived medium stimulates mitochondrial biogenesis and oxidative metabolism in HepG2 hepatoma cells. 2002 , 383, 283-90		37
166	Role of creatine kinase in cardiac excitation-contraction coupling: studies in creatine kinase-deficient mice. 2002 , 16, 653-60		53
165	Mitochondrial creatine kinase is critically necessary for normal myocardial high-energy phosphate metabolism. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002 , 283, H680-7	5.2	36
164	Creatine supplementation reduces skeletal muscle degeneration and enhances mitochondrial function in mdx mice. 2002 , 12, 174-82		98
163	Phosphocreatine kinetics at the onset of contractions in skeletal muscle of MM creatine kinase knockout mice. 2002 , 283, C1776-83		35
162	Activation time of myocardial oxidative phosphorylation in creatine kinase and adenylate kinase knockout mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002 , 282, H2259-64	5.2	19
161	Joint participation of mitochondria and sarcoplasmic reticulum in the formation of tubular aggregates in gastrocnemius muscle of CK ^{-/-} mice. 2002 , 81, 101-6		17
160	Abstracts from the Workshop Non Invasive Investigation of Muscle Function[Marseille (France), October 4 th , 2001. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2002 , 14, 63-212	2.8	
159	Non Invasive Investigation of Muscle Function Marseille (France), October 4 th , 2001. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2002 , 14, 61-212	2.8	
158	Creatine kinase B-driven energy transfer in the brain is important for habituation and spatial learning behaviour, mossy fibre field size and determination of seizure susceptibility. 2002 , 15, 1692-706		123
157	Effects of phosphocreatine on SR Ca ²⁺ regulation in isolated saponin-permeabilized rat cardiac myocytes. <i>Journal of Physiology</i> , 2002 , 539, 767-77	3.9	13
156	Targeting cellular energy production in neurological disorders. 2003 , 12, 1655-79		29

155	In vivo NMR studies of neurodegenerative diseases in transgenic and rodent models. 2003 , 28, 987-1001		36
154	Effects of L-2-hydroxyglutaric acid on various parameters of the glutamatergic system in cerebral cortex of rats. 2003 , 18, 233-43		13
153	Creatine therapy provides neuroprotection after onset of clinical symptoms in Huntington's disease transgenic mice. 2003 , 85, 1359-67		143
152	Metabolic factors contributing to altered Ca ²⁺ regulation in skeletal muscle fatigue. 2003 , 179, 39-48		35
151	D-2-hydroxyglutaric acid inhibits creatine kinase activity from cardiac and skeletal muscle of young rats. 2003 , 33, 840-7		10
150	Presence of (phospho)creatine in developing and adult skeletal muscle of mice without mitochondrial and cytosolic muscle creatine kinase isoforms. <i>Journal of Physiology</i> , 2003 , 548, 847-858	3.9	36
149	Creatine kinase injection restores contractile function in creatine-kinase-deficient mouse skeletal muscle fibres. <i>Journal of Physiology</i> , 2003 , 547, 395-403	3.9	23
148	Contraction-mediated glycogenolysis in mouse skeletal muscle lacking creatine kinase: the role of phosphorylase b activation. <i>Journal of Physiology</i> , 2003 , 553, 523-31	3.9	16
147	Phosphotransfer networks and cellular energetics. <i>Journal of Experimental Biology</i> , 2003 , 206, 2039-47	3	396
146	Cellular mechanisms of skeletal muscle fatigue. 2003 , 538, 563-70; discussion 571		65
145	Creatine phosphate consumption and the actomyosin crossbridge cycle in cardiac muscles. <i>Circulation Research</i> , 2003 , 93, 54-60	15.7	12
144	Adenylate kinase 1 deficiency induces molecular and structural adaptations to support muscle energy metabolism. 2003 , 278, 12937-45		41
143	Impaired intracellular energetic communication in muscles from creatine kinase and adenylate kinase (M-CK/AK1) double knock-out mice. 2003 , 278, 30441-9		49
142	From energy store to energy flux: a study in creatine kinase-deficient fast skeletal muscle. 2003 , 17, 708-10		40
141	Paradoxical absence of M lines and downregulation of creatine kinase in mouse extraocular muscle. 2003 , 95, 692-9		26
140	A molecular approach to the concerted action of kinases involved in energy homeostasis. 2003 , 31, 169-74		66
139	Mitochondrial function in intact skeletal muscle fibres of creatine kinase deficient mice. <i>Journal of Physiology</i> , 2003 , 552, 393-402	3.9	25
138	Upregulation of Ca ²⁺ removal in human skeletal muscle: a possible role for Ca ²⁺ -dependent priming of mitochondrial ATP synthesis. 2003 , 285, C1263-9		7

137	Creatine kinase-deficient hearts exhibit increased susceptibility to ischemia-reperfusion injury and impaired calcium homeostasis. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004 , 287, H1039-45	5.2	55
136	Cerebral creatine kinase deficiency influences metabolite levels and morphology in the mouse brain: a quantitative in vivo ¹ H and ³¹ P magnetic resonance study. 2004 , 90, 1321-30		58
135	Phosphorylated guanidinoacetate partly compensates for the lack of phosphocreatine in skeletal muscle of mice lacking guanidinoacetate methyltransferase. <i>Journal of Physiology</i> , 2004 , 560, 219-29	3.9	39
134	Phosphotransfer dynamics in skeletal muscle from creatine kinase gene-deleted mice. <i>Molecular and Cellular Biochemistry</i> , 2004 , 256-257, 13-27	4.2	53
133	Structural and functional adaptations of striated muscles to CK deficiency. <i>Molecular and Cellular Biochemistry</i> , 2004 , 256-257, 29-41	4.2	36
132	Mice lacking the UbCKmit isoform of creatine kinase reveal slower spatial learning acquisition, diminished exploration and habituation, and reduced acoustic startle reflex responses. <i>Molecular and Cellular Biochemistry</i> , 2004 , 256-257, 305-18	4.2	32
131	The role of creatine in the management of amyotrophic lateral sclerosis and other neurodegenerative disorders. 2004 , 18, 967-80		28
130	Arteriogenesis. <i>Basic Science for the Cardiologist</i> , 2004 ,		18
129	Metabolic Control Analysis of the ATPase Network in Contracting Muscle: Regulation of Contractile Function and ATP Free Energy Potential. 2004 , 31-46		
128	Differential Diagnosis of Serum Creatine Kinase Elevation. 2004 , 79-86		
127	Neuroprotective mechanisms of creatine occur in the absence of mitochondrial creatine kinase. 2004 , 15, 610-7		50
126	Ca ²⁺ -activated myosin-ATPases, creatine and adenylate kinases regulate mitochondrial function according to myofibre type in rabbit. <i>Journal of Physiology</i> , 2005 , 564, 723-35	3.9	19
125	Impaired voluntary running capacity of creatine kinase-deficient mice. <i>Journal of Physiology</i> , 2005 , 565, 951-64	3.9	63
124	Mitochondrial affinity for ADP is twofold lower in creatine kinase knock-out muscles. Possible role in rescuing cellular energy homeostasis. 2005 , 272, 956-65		10
123	Fatigue resistance of rat extraocular muscles does not depend on creatine kinase activity. 2005 , 5, 12		13
122	Effects of acute creatine kinase inhibition on metabolism and tension development in isolated single myocytes. 2005 , 98, 541-9		62
121	Lower force and impaired performance during high-intensity electrical stimulation in skeletal muscle of GAMT-deficient knockout mice. 2005 , 289, C113-9		28
120	Creatine kinase knockout mice show left ventricular hypertrophy and dilatation, but unaltered remodeling post-myocardial infarction. 2005 , 65, 419-27		56

119	Reduced inotropic reserve and increased susceptibility to cardiac ischemia/reperfusion injury in phosphocreatine-deficient guanidinoacetate-N-methyltransferase-knockout mice. 2005 , 111, 2477-85	91
118	The creatine kinase system in human skin: protective effects of creatine against oxidative and UV damage in vitro and in vivo. 2005 , 124, 443-52	69
117	Intracellular positioning of isoforms explains an unusually large adenylate kinase gene family in the parasite <i>Trypanosoma brucei</i> . 2005 , 280, 11781-9	42
116	Structural and behavioural consequences of double deficiency for creatine kinases BCK and UbCKmit. 2005 , 157, 219-34	81
115	Mitochondrial creatine kinase in human health and disease. 2006 , 1762, 164-80	415
114	Brain-type creatine kinase activates neuron-specific K ⁺ -Cl ⁻ co-transporter KCC2. 2006 , 96, 598-608	58
113	Inhibition of the electron transport chain and creatine kinase activity by ethylmalonic acid in human skeletal muscle. 2006 , 21, 11-9	19
112	Increased resistance to fatigue in creatine kinase deficient muscle is not due to improved contractile economy. 2006 , 452, 342-8	8
111	Effects of long-term creatine feeding and running on isometric functional measures and myosin heavy chain content of rat skeletal muscles. 2006 , 452, 744-55	15
110	Dynamic MRS and MRI of skeletal muscle function and biomechanics. <i>NMR in Biomedicine</i> , 2006 , 19, 927-34	103
109	Ultrastructural remodeling of fast skeletal muscle fibers induced by invalidation of creatine kinase. 2006 , 291, C1279-85	17
108	Changing a limb muscle growth program into a resorption program. 2007 , 304, 260-71	12
107	Hair bundles are specialized for ATP delivery via creatine kinase. 2007 , 53, 371-86	107
106	Caveolin-1(-/-) and caveolin-2(-/-)-deficient mice both display numerous skeletal muscle abnormalities, with tubular aggregate formation. 2007 , 170, 316-33	54
105	The creatine kinase phosphotransfer network: thermodynamic and kinetic considerations, the impact of the mitochondrial outer membrane and modelling approaches. <i>Sub-Cellular Biochemistry</i> , 2007 , 46, 27-65	5.5 46
104	The Phosphocreatine Circuit: Molecular and Cellular Physiology of Creatine Kinases, Sensitivity to Free Radicals, and Enhancement by Creatine Supplementation. 195-264	40
103	Integrated and Organized Cellular Energetic Systems: Theories of Cell Energetics, Compartmentation, and Metabolic Channeling. 59-109	16
102	In vivo magnetic resonance spectroscopy of transgenic mice with altered expression of guanidinoacetate methyltransferase and creatine kinase isoenzymes. <i>Sub-Cellular Biochemistry</i> , 2007 , 46, 119-48	5.5 10

101	. 2007 ,			14
100	In vivo magnetic resonance spectroscopy of transgenic mouse models with altered high-energy phosphoryl transfer metabolism. <i>NMR in Biomedicine</i> , 2007 , 20, 448-67	4-4		15
99	Modulation of the actomyosin interaction during fatigue of skeletal muscle. 2007 , 36, 756-77			48
98	Influence of constant positive airway pressure therapy on lipid storage, muscle metabolism and insulin action in obese patients with severe obstructive sleep apnoea syndrome. 2007 , 9, 679-87			76
97	MR spectroscopy in heart failure--clinical and experimental findings. 2007 , 12, 48-57			32
96	Creatine and its potential therapeutic value for targeting cellular energy impairment in neurodegenerative diseases. 2008 , 10, 275-90			114
95	Protective effect of the energy precursor creatine against toxicity of glutamate and beta-amyloid in rat hippocampal neurons. 2000 , 74, 1968-78			168
94	Creatine kinase B deficient neurons exhibit an increased fraction of motile mitochondria. 2008 , 9, 73			19
93	Orally administered epigallocatechin gallate attenuates retinal neuronal death in vivo and light-induced apoptosis in vitro. 2008 , 1198, 141-52			66
92	Nicotinamide attenuates retinal ischemia and light insults to neurones. 2008 , 52, 786-98			34
91	Skeletal muscle fatigue: cellular mechanisms. <i>Physiological Reviews</i> , 2008 , 88, 287-332	47.9		1415
90	Creatine kinase-mediated ATP supply fuels actin-based events in phagocytosis. 2008 , 6, e51			52
89	Pathogenesis of ganglion "cell death" in glaucoma and neuroprotection: focus on ganglion cell axonal mitochondria. 2008 , 173, 339-52			105
88	Thiol-based redox switches in eukaryotic proteins. 2009 , 11, 997-1014			274
87	Gated dynamic 31P MRS shows reduced contractile phosphocreatine breakdown in mice deficient in cytosolic creatine kinase and adenylate kinase. <i>NMR in Biomedicine</i> , 2009 , 22, 523-31	4-4		9
86	Mitochondrial kinases and their molecular interaction with cardiolipin. 2009 , 1788, 2032-47			75
85	Cardiac phenotype of mitochondrial creatine kinase knockout mice is modified on a pure C57BL/6 genetic background. 2009 , 46, 93-9			27
84	Domestication of the cardiac mitochondrion for energy conversion. 2009 , 46, 832-41			66

83	Local ATP generation by brain-type creatine kinase (CK-B) facilitates cell motility. 2009 , 4, e5030		45
82	Molecular and biochemical changes of the cardiovascular system due to smoking exposure. 2009 , 15, 1038-53		60
81	Synthesis and transport of creatine in the CNS: importance for cerebral functions. 2010 , 115, 297-313		110
80	Regulation of sodium-calcium exchanger activity by creatine kinase under energy-compromised conditions. 2010 , 285, 28275-85		15
79	Oxidative stress-mediated inhibition of brain creatine kinase activity by methylmercury. 2010 , 31, 454-60		52
78	Incubating isolated mouse EDL muscles with creatine improves force production and twitch kinetics in fatigue due to reduction in ionic strength. 2011 , 6, e22742		10
77	Similar mitochondrial activation kinetics in wild-type and creatine kinase-deficient fast-twitch muscle indicate significant Pi control of respiration. 2011 , 300, R1316-25		8
76	Faster O ₂ uptake kinetics in canine skeletal muscle in situ after acute creatine kinase inhibition. <i>Journal of Physiology</i> , 2011 , 589, 221-33	3.9	29
75	Rearrangement of energetic and substrate utilization networks compensate for chronic myocardial creatine kinase deficiency. <i>Journal of Physiology</i> , 2011 , 589, 5193-211	3.9	47
74	Role of creatine kinase and its substrates in the central nervous system in norm and in various pathologies. 2011 , 47, 140-150		2
73	The creatine kinase system and pleiotropic effects of creatine. 2011 , 40, 1271-96		404
72	Disorders of creatine transport and metabolism. 2011 , 157C, 72-8		71
71	Impaired brain creatine kinase activity in Huntington's disease. 2011 , 8, 194-201		30
70	Exertional rhabdomyolysis: a clinical review with a focus on genetic influences. 2012 , 13, 122-36		54
69	Tubular aggregates in skeletal muscle: just a special type of protein aggregates?. 2012 , 22, 199-207		57
68	Measurement of Brain Creatine Metabolism In Vivo: Magnetic Resonance Spectroscopy Studies of Transgenic Animals. 2012 , 1135-1148		
67	Proteomic investigation of changes in rat skeletal muscle after exercise-induced fatigue. 2012 , 45, 75-80		6
66	Early alterations of brain cellular energy homeostasis in Huntington disease models. 2012 , 287, 1361-70		92

65	Chronic creatine kinase deficiency eventually leads to congestive heart failure, but severity is dependent on genetic background, gender and age. 2012 , 107, 276		21
64	Association of muscle-specific creatine kinase (CKMM) gene polymorphism with physical performance of athletes. 2012 , 38, 89-93		10
63	Sodium Calcium Exchange: A Growing Spectrum of Pathophysiological Implications. 2013 ,		5
62	Regulation of sodium-calcium exchanger activity by creatine kinase. 2013 , 961, 163-73		6
61	Disturbed energy metabolism and muscular dystrophy caused by pure creatine deficiency are reversible by creatine intake. <i>Journal of Physiology</i> , 2013 , 591, 571-92	3.9	62
60	L-arginine:glycine amidinotransferase deficiency protects from metabolic syndrome. 2013 , 22, 110-23		63
59	A review of creatine supplementation in age-related diseases: more than a supplement for athletes. <i>F1000Research</i> , 2014 , 3, 222	3.6	46
58	The Myocardial Creatine Kinase System in the Normal, Ischaemic and Failing Heart. 2014 , 155-168		6
57	Systems Biology of Metabolic and Signaling Networks. <i>Springer Series in Biophysics</i> , 2014 ,		4
56	Gestational hypermethioninaemia alters oxidative/nitrative status in skeletal muscle and biomarkers of muscular injury and inflammation in serum of rat offspring. 2015 , 96, 277-84		5
55	Decline of Phosphotransfer and Substrate Supply Metabolic Circuits Hinders ATP Cycling in Aging Myocardium. 2015 , 10, e0136556		10
54	Submembranous recruitment of creatine kinase B supports formation of dynamic actin-based protrusions of macrophages and relies on its C-terminal flexible loop. 2015 , 94, 114-27		12
53	The extended, dynamic mitochondrial reticulum in skeletal muscle and the creatine kinase (CK)/phosphocreatine (PCr) shuttle are working hand in hand for optimal energy provision. 2015 , 36, 297-300		12
52	Decreased creatine kinase is linked to diastolic dysfunction in rats with right heart failure induced by pulmonary artery hypertension. 2015 , 86, 1-8		29
51	Creatine biosynthesis and transport in health and disease. 2015 , 119, 146-65		110
50	Ultrastructural remodelling of slow skeletal muscle fibres in creatine kinase deficient mice: a quantitative study. 2016 , 35, 477-486		3
49	Creatine: a miserable life without it. 2016 , 48, 1739-50		15
48	Cellular compartmentation of energy metabolism: creatine kinase microcompartments and recruitment of B-type creatine kinase to specific subcellular sites. 2016 , 48, 1751-74		57

47	Intradialytic creatine supplementation: A scientific rationale for improving the health and quality of life of dialysis patients. 2017 , 99, 1-14		13
46	The Ca/CaMKK2 axis mediates the telbivudine induced upregulation of creatine kinase: Implications for mechanism of antiviral nucleoside analogs' side effect. 2017 , 146, 224-232		3
45	Energetics of muscle contraction: further trials. 2017 , 67, 19-43		6
44	Mitochondrial Proteolipid Complexes of Creatine Kinase. <i>Sub-Cellular Biochemistry</i> , 2018 , 87, 365-408	5.5	8
43	Genetics and genomics of susceptibility and immune response to necrotic enteritis in chicken: a review. <i>Molecular Biology Reports</i> , 2018 , 45, 31-37	2.8	17
42	Network modules uncover mechanisms of skeletal muscle dysfunction in COPD patients. <i>Journal of Translational Medicine</i> , 2018 , 16, 34	8.5	15
41	A Mouse Model of Creatine Transporter Deficiency Reveals Impaired Motor Function and Muscle Energy Metabolism. <i>Frontiers in Physiology</i> , 2018 , 9, 773	4.6	16
40	Protein target identification of ginsenosides in skeletal muscle tissues: discovery of natural small-molecule activators of muscle-type creatine kinase. <i>Journal of Ginseng Research</i> , 2020 , 44, 461-474	5.8	11
39	Changes in cardiac and hepatic energetic metabolism in gerbils infected by <i>Listeria monocytogenes</i> . <i>Microbial Pathogenesis</i> , 2020 , 138, 103786	3.8	0
38	Marker enzyme activities in hindleg from creatine-deficient AGAT and GAMT KO mice - differences between models, muscles, and sexes. <i>Scientific Reports</i> , 2020 , 10, 7956	4.9	4
37	An integrative approach to the regulation of mitochondrial respiration during exercise: Focus on high-intensity exercise. <i>Redox Biology</i> , 2020 , 35, 101478	11.3	18
36	Adenylate Kinase and Metabolic Signaling in Cancer Cells. <i>Frontiers in Oncology</i> , 2020 , 10, 660	5.3	14
35	Altered calcium handling in cardiomyocytes from arginine-glycine amidinotransferase-knockout mice is rescued by creatine. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021 , 320, H805-H825	5.2	1
34	Quantification of creatine kinase reaction rate in mouse hindlimb using phosphorus-31 magnetic resonance spectroscopic fingerprinting. <i>NMR in Biomedicine</i> , 2021 , 34, e4435	4.4	
33	Transcriptome Profiles of the Liver in Two Cold-Exposed Sheep Breeds Revealed Different Mechanisms and Candidate Genes for Thermogenesis. <i>Genetical Research</i> , 2021 , 2021, 1-11	1.1	0
32	Energy metabolism design of the striated muscle cell. <i>Physiological Reviews</i> , 2021 , 101, 1561-1607	47.9	9
31	6.3 Mitochondria-Nucleus Energetic Communication: Role for Phosphotransfer Networks in Processing Cellular Information. 2007 , 641-666		3
30	8.1 Mechanisms and Modeling of Energy Transfer Between Intracellular Compartments. 2007 , 815-860		6

29	Introduction--creatine: cheap ergogenic supplement with great potential for health and disease. <i>Sub-Cellular Biochemistry</i> , 2007 , 46, 1-16	5.5	19
28	Quantitative studies of enzyme-substrate compartmentation, functional coupling and metabolic channelling in muscle cells. 1998 , 291-307		1
27	Systems Level Regulation of Cardiac Energy Fluxes Via Metabolic Cycles: Role of Creatine, Phosphotransfer Pathways, and AMPK Signaling. <i>Springer Series in Biophysics</i> , 2014 , 261-320		8
26	Creatine Supplementation in Mitochondrial Cytopathies. <i>Medical Science Symposia Series</i> , 2000 , 91-100		2
25	Tubular aggregates in skeletal muscle: their functional significance and mechanisms of pathogenesis. <i>Current Opinion in Neurology</i> , 1998 , 11, 439-42	7.1	31
24	Presence of (phospho)creatine in developing and adult skeletal muscle of mice without mitochondrial and cytosolic muscle creatine kinase isoforms. <i>Journal of Physiology</i> , 2003 , 548, 847-58	3.9	16
23	Mitochondria. <i>Circulation Research</i> , 2001 , 89, 744-746	15.7	39
22	Energy deprivation and a deficiency in downstream metabolic target genes during the onset of embryonic heart failure in RXR α embryos. <i>Development (Cambridge)</i> , 1998 , 125, 533-544	6.6	49
21	Contraction parameters, myosin composition and metabolic enzymes of the skeletal muscles of the etruscan shrew <i>Suncus etruscus</i> and of the common European white-toothed shrew <i>Crocidura russula</i> (Insectivora: soricidae). <i>Journal of Experimental Biology</i> , 1999 , 202, 2461-2473	3	17
20	Etruscan shrew muscle: the consequences of being small. <i>Journal of Experimental Biology</i> , 2002 , 205, 2161-2166	3	26
19	The advantage of channeling nucleotides for very processive functions. <i>F1000Research</i> , 2017 , 6, 724	3.6	18
18	The advantage of channeling nucleotides for very processive functions. <i>F1000Research</i> , 2017 , 6, 724	3.6	19
17	Creatine-Phosphocreatine Pathway in the Intracellular Networks of Energy Transfer and Signal Transduction in Muscle Cells. <i>Medical Science Symposia Series</i> , 2000 , 1-9		
16	Myocardial Metabolism. <i>Medical Radiology</i> , 2000 , 153-168	0.2	
15	Mitochondrial Approaches to Neuroprotection. <i>Handbook of Experimental Pharmacology</i> , 2002 , 95-113	3.2	
14	High-Definition Magnetic Resonance of Genetically Modified Mice. <i>Basic Science for the Cardiologist</i> , 2004 , 101-117		
13	Integrated and Organized Cellular Energetic Systems. 1		
12	Defects in the mitochondrial energy metabolism outside the respiratory chain and the pyruvate dehydrogenase complex. 1997 , 243-247		

11	Cytoarchitectural and metabolic adaptations in muscles with mitochondrial and cytosolic creatine kinase deficiencies. 1998 , 183-194		
10	Functional aspects of the X-ray structure of mitochondrial creatine kinase: A molecular physiology approach. 1998 , 125-140		1
9	In situ measurements of creatine kinase flux by NMR. The lessons from bioengineered mice. 1998 , 195-208		
8	Magnetic Resonance Imaging. 2004 , 55-71		
7	Functional aspects of the X-ray structure of mitochondrial creatine kinase: a molecular physiology approach. <i>Molecular and Cellular Biochemistry</i> , 1998 , 184, 125-40	4.2	23
6	Cytoarchitectural and metabolic adaptations in muscles with mitochondrial and cytosolic creatine kinase deficiencies. <i>Molecular and Cellular Biochemistry</i> , 1998 , 184, 183-94	4.2	28
5	In situ measurements of creatine kinase flux by NMR. The lessons from bioengineered mice. <i>Molecular and Cellular Biochemistry</i> , 1998 , 184, 195-208	4.2	7
4	Quantitative studies of enzyme-substrate compartmentation, functional coupling and metabolic channelling in muscle cells. <i>Molecular and Cellular Biochemistry</i> , 1998 , 184, 291-307	4.2	16
3	Creatine kinase knockout mice--what is the phenotype: heart. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 1998 , 6, 120-1	2.8	7
2	Chronic inhibition of the mitochondrial ATP synthase in skeletal muscle triggers sarcoplasmic reticulum distress and tubular aggregates. <i>Cell Death and Disease</i> , 2022 , 13,	9.8	0
1	Increased tetanic calcium in early fatigue of mammalian muscle fibers is accompanied by accelerated force development despite a decreased force. 2023 , 37,		0