

# Uwe Schlattner

## List of Publications by Year in descending order

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164  
papers

12,404  
citations

34493

54  
h-index

31191

106  
g-index

177  
all docs

177  
docs citations

177  
times ranked

15869  
citing authors

#	ARTICLE	IF	CITATIONS
1	Supplementing Soy-Based Diet with Creatine in Rats: Implications for Cardiac Cell Signaling and Response to Doxorubicin. <i>Nutrients</i> , 2022, 14, 583.	1.7	2
2	NME4 Loss-of-Function Alters Mitochondria, Triggers Retrograde Signaling and Leads to Cellular Reprogramming. <i>Biophysical Journal</i> , 2021, 120, 348a.	0.2	0
3	Ornithine Transcarbamylase “ From Structure to Metabolism: An Update. <i>Frontiers in Physiology</i> , 2021, 12, 748249.	1.3	21
4	Regulation   Metabolite Channeling in Energy Metabolism. , 2021, , 592-598.		0
5	Guidelines for the use and interpretation of assays for monitoring autophagy (4th) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50,582 1,430	4.3	1,430
6	The mitochondrially-localized nucleoside diphosphate kinase D (NME4) is a novel metastasis suppressor. <i>BMC Biology</i> , 2021, 19, 228.	1.7	21
7	Role of Cardiac AMP-Activated Protein Kinase in a Non-pathological Setting: Evidence From Cardiomyocyte-Specific, Inducible AMP-Activated Protein Kinase ±1±2-Knockout Mice. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 731015.	1.8	7
8	NME6 is a phosphotransfer-inactive, monomeric NME/NDPK family member and functions in complexes at the interface of mitochondrial inner membrane and matrix. <i>Cell and Bioscience</i> , 2021, 11, 195.	2.1	12
9	The Complex Functions of the NME Family“ A Matter of Location and Molecular Activity. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13083.	1.8	5
10	Impairments in left ventricular mitochondrial bioenergetics precede overt cardiac dysfunction and remodelling in Duchenne muscular dystrophy. <i>Journal of Physiology</i> , 2020, 598, 1377-1392.	1.3	30
11	Membrane Interaction of Mitochondrial Intermembrane Space Kinases. <i>Biophysical Journal</i> , 2020, 118, 447a-448a.	0.2	0
12	Role of creatine and creatine kinase in UCP1-independent adipocyte thermogenesis. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2020, 319, E944-E946.	1.8	14
13	AMPfret: synthetic nanosensor for cellular energy states. <i>Biochemical Society Transactions</i> , 2020, 48, 103-111.	1.6	4
14	LKB1 specifies neural crest cell fates through pyruvate-alanine cycling. <i>Science Advances</i> , 2019, 5, eaau5106.	4.7	12
15	Citrulline stimulates muscle protein synthesis, by reallocating ATP consumption to muscle protein synthesis. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2019, 10, 919-928.	2.9	27
16	A New Synthetic FRET Sensor to Analyze Allosteric AMPK Activation and Cellular Energy State. <i>Biophysical Journal</i> , 2019, 116, 155a.	0.2	0
17	Synthetic energy sensor AMPfret deciphers adenylate-dependent AMPK activation mechanism. <i>Nature Communications</i> , 2019, 10, 1038.	5.8	47
18	Early myopathy in Duchenne muscular dystrophy is associated with elevated mitochondrial H <sub>2</sub> O <sub>2</sub> emission during impaired oxidative phosphorylation. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2019, 10, 643-661.	2.9	86

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19	Mitochondrial Proteolipid Complexes of Creatine Kinase. <i>Sub-Cellular Biochemistry</i> , 2018, 87, 365-408.	1.0	23
20	The NDPK/NME superfamily: state of the art. <i>Laboratory Investigation</i> , 2018, 98, 164-174.	1.7	73
21	The mitochondrial nucleoside diphosphate kinase (NDPK-D/NME4), a moonlighting protein for cell homeostasis. <i>Laboratory Investigation</i> , 2018, 98, 582-588.	1.7	19
22	NME4/nucleoside diphosphate kinase D in cardiolipin signaling and mitophagy. <i>Laboratory Investigation</i> , 2018, 98, 228-232.	1.7	29
23	Cell-Free Protein Synthesis Enhancement from Real-Time NMR Metabolite Kinetics: Redirecting Energy Fluxes in Hybrid RRL Systems. <i>ACS Synthetic Biology</i> , 2018, 7, 218-226.	1.9	17
24	Proteolipid domains form in biomimetic and cardiac mitochondrial vesicles and are regulated by cardiolipin concentration but not monolyso-cardiolipin. <i>Journal of Biological Chemistry</i> , 2018, 293, 15933-15946.	1.6	12
25	Inhibition of BET Proteins Reduces Right Ventricle Hypertrophy and Pulmonary Hypertension Resulting from Combined Hypoxia and Pulmonary Inflammation. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2224.	1.8	10
26	Creatine kinase in human erythrocytes: A genetic anomaly reveals presence of soluble brain-type isoform. <i>Blood Cells, Molecules, and Diseases</i> , 2017, 64, 33-37.	0.6	3
27	Mitochondrial NM23-H4/NDPK-D and OPA1: Partners in Shaping Mitochondria and Initiating Mitophagy?. <i>Biophysical Journal</i> , 2017, 112, 324a-325a.	0.2	0
28	Muscle hypertrophy in hypoxia with inflammation is controlled by bromodomain and extra-terminal domain proteins. <i>Scientific Reports</i> , 2017, 7, 12133.	1.6	2
29	The advantage of channeling nucleotides for very processive functions. <i>F1000Research</i> , 2017, 6, 724.	0.8	27
30	The advantage of channeling nucleotides for very processive functions. <i>F1000Research</i> , 2017, 6, 724.	0.8	36
31	Mitochondrial NM23-H4/NDPK-D Supports Cardiolipin Signaling to Eliminate Depolarized Mitochondria by Mitophagy. <i>Biophysical Journal</i> , 2016, 110, 472a.	0.2	0
32	Restrictions in ATP diffusion within sarcomeres can provoke ATP-depleted zones impairing exercise capacity in chronic obstructive pulmonary disease. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 2269-2278.	1.1	6
33	Resveratrol inhibits lipogenesis of 3T3-L1 and SGBS cells by inhibition of insulin signaling and mitochondrial mass increase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, 643-652.	0.5	53
34	A 9-wk docosahexaenoic acid-enriched supplementation improves endurance exercise capacity and skeletal muscle mitochondrial function in adult rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016, 310, E213-E224.	1.8	16
35	The effects of creatine supplementation on striatal neural progenitor cells depend on developmental stage. <i>Amino Acids</i> , 2016, 48, 1913-1927.	1.2	5
36	Mitochondrial quality control and dynamics: NM23-H4 supports cardiolipin-linked mitophagy signaling and GTP-fueling to OPA1. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, e26.	0.5	0

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37	Modelling <i>in vivo</i> creatine/phosphocreatine <i>in vitro</i> reveals divergent adaptations in human muscle mitochondrial respiratory control by ADP after acute and chronic exercise. <i>Journal of Physiology</i> , 2016, 594, 3127-3140.	1.3	42
38	Simple oxygraphic analysis for the presence of adenylate kinase 1 and 2 in normal and tumor cells. <i>Journal of Bioenergetics and Biomembranes</i> , 2016, 48, 531-548.	1.0	27
39	Genetically Encoded Fluorescent Biosensors to Explore AMPK Signaling and Energy Metabolism. <i>Exs</i> , 2016, 107, 491-523.	1.4	9
40	Cellular compartmentation of energy metabolism: creatine kinase microcompartments and recruitment of B-type creatine kinase to specific subcellular sites. <i>Amino Acids</i> , 2016, 48, 1751-1774.	1.2	76
41	NDPK-D (NM23-H4)-mediated externalization of cardiolipin enables elimination of depolarized mitochondria by mitophagy. <i>Cell Death and Differentiation</i> , 2016, 23, 1140-1151.	5.0	147
42	A Genetically-Encoded FRET Sensor based on AMP-Activated Protein Kinase Reports Allosteric Kinase Activation. <i>Biophysical Journal</i> , 2015, 108, 612a.	0.2	0
43	Mitochondrial NM23-H4/NDPK-D is Multifunctional: Fueling Mitochondrial GTPase OPA1 and Triggering Mitophagy. <i>Biophysical Journal</i> , 2015, 108, 369a.	0.2	0
44	Mitochondrial NM23-H4/NDPK-D: a bifunctional nanoswitch for bioenergetics and lipid signaling. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2015, 388, 271-278.	1.4	16
45	Modular organization of cardiac energy metabolism: energy conversion, transfer and feedback regulation. <i>Acta Physiologica</i> , 2015, 213, 84-106.	1.8	43
46	Characterization and Production of Protein Complexes by Co-expression in <i>Escherichia coli</i> . <i>Methods in Molecular Biology</i> , 2015, 1261, 63-89.	0.4	14
47	AMP-Activated Protein Kinase: A Metabolic Stress Sensor in the Heart. , 2015, , 187-225.		2
48	Mitochondrial cardiolipin/phospholipid trafficking: The role of membrane contact site complexes and lipid transfer proteins. <i>Chemistry and Physics of Lipids</i> , 2014, 179, 32-41.	1.5	61
49	Regulation of brain-type creatine kinase by AMP-activated protein kinase: Interaction, phosphorylation and ER localization. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 1271-1283.	0.5	16
50	Nucleoside diphosphate kinases fuel dynamin superfamily proteins with GTP for membrane remodeling. <i>Science</i> , 2014, 344, 1510-1515.	6.0	130
51	Externalization of Cardiolipin as an "Eat-Me" Mitophagial Signal is Facilitated by NDPK-D. <i>Biophysical Journal</i> , 2014, 106, 184a.	0.2	3
52	Expression analysis of ATAD3 isoforms in rodent and human cell lines and tissues. <i>Gene</i> , 2014, 535, 60-69.	1.0	22
53	Bypassing AMPK Phosphorylation. <i>Chemistry and Biology</i> , 2014, 21, 567-569.	6.2	12
54	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.	0.4	8

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55	Macro Ck2 Accumulation in Tenofovir-Treated HIV Patients is Facilitated by Ck Oligomer Stabilization but is Not Predictive for Pathology. <i>Antiviral Therapy</i> , 2013, 18, 193-204.	0.6	3
56	Mitochondrial Nm23-H4/NDPK-D is Multifunctional: Intermembrane Cardiolipin Transfer Linked to Apoptosis. <i>Biophysical Journal</i> , 2013, 104, 216a.	0.2	0
57	Dual Function of Mitochondrial Nm23-H4 Protein in Phosphotransfer and Intermembrane Lipid Transfer. <i>Journal of Biological Chemistry</i> , 2013, 288, 111-121.	1.6	92
58	Application of FRET Biosensors in Energy Metabolism. <i>Biophysical Journal</i> , 2013, 104, 304a.	0.2	0
59	Monocarboxylate transporters and mitochondrial creatine kinase protein content in McArdle disease. <i>Molecular Genetics and Metabolism</i> , 2013, 108, 259-262.	0.5	9
60	Conserved regulatory elements in AMPK. <i>Nature</i> , 2013, 498, E8-E10.	13.7	84
61	Glutathione S-Transferases Interact with AMP-Activated Protein Kinase: Evidence for S-Glutathionylation and Activation In Vitro. <i>PLoS ONE</i> , 2013, 8, e62497.	1.1	56
62	Monocarboxylate Transporters and Creatine Kinase Protein Content in McArdle's Disease. <i>FASEB Journal</i> , 2013, 27, 1202.14.	0.2	0
63	Inhibition of AMPK signalling by doxorubicin: at the crossroads of the cardiac responses to energetic, oxidative, and genotoxic stress. <i>Cardiovascular Research</i> , 2012, 95, 290-299.	1.8	95
64	Mitochondrial Nm23-H4 can switch between phosphotransfer and lipid transfer activities. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, S87-S88.	0.5	0
65	Intermembrane Lipid Transfer is Facilitated by Mitochondrial Nucleoside Diphosphate Kinase D. <i>Biophysical Journal</i> , 2012, 102, 494a-495a.	0.2	0
66	Yeast-based production and purification of HIS-tagged human ATAD3A, A specific target of S100B. <i>Protein Expression and Purification</i> , 2012, 83, 211-216.	0.6	5
67	Cardiac phosphoproteome reveals cell signaling events involved in doxorubicin cardiotoxicity. <i>Journal of Proteomics</i> , 2012, 75, 4705-4716.	1.2	22
68	A two-dimensional screen for AMPK substrates identifies tumor suppressor fumarate hydratase as a preferential AMPK $\pm$ 2 substrate. <i>Journal of Proteomics</i> , 2012, 75, 3304-3313.	1.2	18
69	AMP-activated protein kinase undergoes nucleotide-dependent conformational changes. <i>Nature Structural and Molecular Biology</i> , 2012, 19, 716-718.	3.6	112
70	Tumor suppressor fumarate hydratase is phosphorylated and regulated by AMP-activated protein kinase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, S85-S86.	0.5	0
71	A Surface Plasmon Resonance-Based Two-Dimensional Screen for Protein Kinase Substrates Identifies Fumarase as AMPK Target. <i>Biophysical Journal</i> , 2012, 102, 573a.	0.2	0
72	Regulation of respiration in muscle cells in vivo by VDAC through interaction with the cytoskeleton and MtCK within Mitochondrial Interactosome. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 1545-1554.	1.4	80

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73	Phosphocreatine Interacts with Phospholipids, Affects Membrane Properties and Exerts Membrane-Protective Effects. PLoS ONE, 2012, 7, e43178.	1.1	61
74	The creatine kinase system and pleiotropic effects of creatine. Amino Acids, 2011, 40, 1271-1296.	1.2	543
75	Membrane interaction of mitochondrial kinases: Mechanistic insights by analysis of thermodynamic and catalytic parameters. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 73.	0.5	0
76	Creatine kinases: a cornerstone for structural research in the phosphagen kinase family. FASEB Journal, 2010, 24, 7-7.	0.2	8
77	Where Have the Fluxes Gone?. Journal of Biological Chemistry, 2010, 285, 1e21.	1.6	3
78	Early effects of doxorubicin in perfused heart: transcriptional profiling reveals inhibition of cellular stress response genes. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 298, R1075-R1088.	0.9	36
79	A versatile multidimensional protein purification system with full Internet remote control based on a standard HPLC system. BioTechniques, 2009, 46, ix-xii.	0.8	22
80	Homo-oligomerization and Activation of AMP-activated Protein Kinase Are Mediated by the Kinase Domain I±G-Helix. Journal of Biological Chemistry, 2009, 284, 27425-27437.	1.6	25
81	Impact of myocardial inflammation on cytosolic and mitochondrial creatine kinase activity and expression. Basic Research in Cardiology, 2009, 104, 247-257.	2.5	13
82	The mammalian Nm23/NDPK family: from metastasis control to cilia movement. Molecular and Cellular Biochemistry, 2009, 329, 51-62.	1.4	167
83	Interaction of NDPK-D with cardiolipin-containing membranes: Structural basis and implications for mitochondrial physiology. Biochimie, 2009, 91, 779-783.	1.3	38
84	Mitochondrial kinases and their molecular interaction with cardiolipin. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 2032-2047.	1.4	82
85	A Microcompartment Of Mitochondrial Nucleoside Diphosphate Kinase: Cardiolipin Interaction And Coupling Of Nucleotide Transfer With Respiration. Biophysical Journal, 2009, 96, 7a-8a.	0.2	0
86	Development and performance of an enzyme immunoassay to detect creatine kinase isoenzyme MB activity using anti-mitochondrial creatine kinase monoclonal antibodies. Scandinavian Journal of Clinical and Laboratory Investigation, 2009, 69, 687-695.	0.6	16
87	Yeast Two-Hybrid, a Powerful Tool for Systems Biology. International Journal of Molecular Sciences, 2009, 10, 2763-2788.	1.8	436
88	Regulation of respiration in brain mitochondria and synaptosomes: restrictions of ADP diffusion in situ, roles of tubulin, and mitochondrial creatine kinase. Molecular and Cellular Biochemistry, 2008, 318, 147-165.	1.4	77
89	Progressive decrease of phosphocreatine, creatine and creatine kinase in skeletal muscle upon transformation to sarcoma. FEBS Journal, 2008, 275, 3236-3247.	2.2	44
90	Probing the rotor subunit interface of the ATP synthase from <i>llyobacterâ€ftartaricus</i> . FEBS Journal, 2008, 275, 4850-4862.	2.2	28

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91	Disruption of electron transport between complexes II and III is anti-arrhythmic during reperfusion via reduced oxidative stress. <i>Journal of Molecular and Cellular Cardiology</i> , 2008, 44, 757.	0.9	0
92	Functions and effects of creatine in the central nervous system. <i>Brain Research Bulletin</i> , 2008, 76, 329-343.	1.4	303
93	Structural Properties of AMP-activated Protein Kinase. <i>Journal of Biological Chemistry</i> , 2008, 283, 18331-18343.	1.6	82
94	The Nucleoside Diphosphate Kinase D (NM23-H4) Binds the Inner Mitochondrial Membrane with High Affinity to Cardiolipin and Couples Nucleotide Transfer with Respiration. <i>Journal of Biological Chemistry</i> , 2008, 283, 26198-26207.	1.6	84
95	An automated home-built low-cost fermenter suitable for large-scale bacterial expression of proteins in <i>Escherichia coli</i> . <i>BioTechniques</i> , 2008, 45, 187-189.	0.8	4
96	Cardiolipin Clusters and Membrane Domain Formation Induced by Mitochondrial Proteins. <i>Journal of Molecular Biology</i> , 2007, 365, 968-980.	2.0	98
97	The Creatine Kinase Phosphotransfer Network: Thermodynamic and Kinetic Considerations, the Impact of the Mitochondrial Outer Membrane and Modelling Approaches. , 2007, 46, 27-65.		57
98	New Candidate Targets of AMP-Activated Protein Kinase in Murine Brain Revealed by a Novel Multidimensional Substrate-Screen for Protein Kinases. <i>Journal of Proteome Research</i> , 2007, 6, 3266-3277.	1.8	31
99	Novel Lipid Transfer Property of Two Mitochondrial Proteins that Bridge the Inner and Outer Membranes. <i>Biophysical Journal</i> , 2007, 92, 126-137.	0.2	71
100	Reduced creatine-stimulated respiration in doxorubicin challenged mitochondria: Particular sensitivity of the heart. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2007, 1767, 1276-1284.	0.5	34
101	Creatine treatment promotes differentiation of GABA-ergic neuronal precursors in cultured fetal rat spinal cord. <i>Journal of Neuroscience Research</i> , 2007, 85, 1863-1875.	1.3	27
102	Creatine promotes the GABAergic phenotype in human fetal spinal cord cultures. <i>Brain Research</i> , 2007, 1137, 50-57.	1.1	17
103	Inhibition of cytosolic and mitochondrial creatine kinase by siRNA in HaCaT- and HeLaS3-cells affects cell viability and mitochondrial morphology. <i>Molecular and Cellular Biochemistry</i> , 2007, 306, 153-162.	1.4	23
104	Mitochondrial creatine kinase in human health and disease. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2006, 1762, 164-180.	1.8	501
105	Alterations in myocardial energy metabolism induced by the anti-cancer drug doxorubicin. <i>Comptes Rendus - Biologies</i> , 2006, 329, 657-668.	0.1	78
106	Non-genomic ecdysone effects and the invertebrate nuclear steroid hormone receptor EcR: a new role for an old receptor?. <i>Molecular and Cellular Endocrinology</i> , 2006, 247, 64-72.	1.6	26
107	Stabilization of ubiquitous mitochondrial creatine kinase preprotein by APP family proteins. <i>Molecular and Cellular Neurosciences</i> , 2006, 31, 263-272.	1.0	19
108	Creatine and neurotrophin-4/5 promote survival of nitric oxide synthase-expressing interneurons in striatal cultures. <i>Neuroscience Letters</i> , 2006, 395, 57-62.	1.0	11

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109	New insights into doxorubicin-induced cardiotoxicity: The critical role of cellular energetics. <i>Journal of Molecular and Cellular Cardiology</i> , 2006, 41, 389-405.	0.9	298
110	Cardiac system bioenergetics: metabolic basis of the Frank-Starling law. <i>Journal of Physiology</i> , 2006, 571, 253-273.	1.3	212
111	Molecular system bioenergetics: regulation of substrate supply in response to heart energy demands. <i>Journal of Physiology</i> , 2006, 577, 769-777.	1.3	61
112	AMP-activated Kinase Inhibits the Epithelial Na <sup>+</sup> Channel through Functional Regulation of the Ubiquitin Ligase Nedd4-2. <i>Journal of Biological Chemistry</i> , 2006, 281, 26159-26169.	1.6	139
113	The Creatine Kinase/Creatine Connection to Alzheimer's Disease: CK Inactivation, APP-CK Complexes and Focal Creatine Deposits. <i>Journal of Biomedicine and Biotechnology</i> , 2006, 2006, 1-11.	3.0	83
114	Oxidative phosphorylation and its coupling to mitochondrial creatine and adenylate kinases in human gastric mucosa. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006, 291, R936-R946.	0.9	15
115	Activation of Protein Kinase C $\alpha$ by Peroxynitrite Regulates LKB1-dependent AMP-activated Protein Kinase in Cultured Endothelial Cells. <i>Journal of Biological Chemistry</i> , 2006, 281, 6366-6375.	1.6	161
116	Insulin Antagonizes Ischemia-induced Thr172 Phosphorylation of AMP-activated Protein Kinase $\alpha$ -Subunits in Heart via Hierarchical Phosphorylation of Ser485/491. <i>Journal of Biological Chemistry</i> , 2006, 281, 5335-5340.	1.6	308
117	Dissecting the Role of 5 $\alpha$ -AMP for Allosteric Stimulation, Activation, and Deactivation of AMP-activated Protein Kinase. <i>Journal of Biological Chemistry</i> , 2006, 281, 32207-32216.	1.6	393
118	Macroenzyme Creatine Kinase (Ck) Type 2 in HIV-Infected Patients is Significantly Associated with Tdf and Consists of Ubiquitous Mitochondrial Ck. <i>Antiviral Therapy</i> , 2006, 11, 1071-1080.	0.6	10
119	Calcium and energy transfer. <i>Journal of Physiology</i> , 2005, 565, 703-703.	1.3	1
120	Epithelial Sodium Channel Inhibition by AMP-activated Protein Kinase in Oocytes and Polarized Renal Epithelial Cells. <i>Journal of Biological Chemistry</i> , 2005, 280, 17608-17616.	1.6	136
121	Acute toxicity of doxorubicin on isolated perfused heart: response of kinases regulating energy supply. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005, 289, H37-H47.	1.5	122
122	Creatine Supplementation Improves Dopaminergic Cell Survival and Protects against MPP <sup>+</sup> Toxicity in an Organotypic Tissue Culture System. <i>Cell Transplantation</i> , 2005, 14, 537-550.	1.2	53
123	Ecdysteroid Receptors and their Applications in Agriculture and Medicine. <i>Vitamins and Hormones</i> , 2005, 73, 59-100.	0.7	80
124	The Creatine Kinase System in Human Skin: Protective Effects of Creatine Against Oxidative and UV Damage In Vitro and In Vivo. <i>Journal of Investigative Dermatology</i> , 2005, 124, 443-452.	0.3	78
125	C-terminal Lysines Determine Phospholipid Interaction of Sarcomeric Mitochondrial Creatine Kinase. <i>Journal of Biological Chemistry</i> , 2004, 279, 24334-24342.	1.6	63
126	Activation of the AMP-activated Protein Kinase by the Anti-diabetic Drug Metformin in Vivo. <i>Journal of Biological Chemistry</i> , 2004, 279, 43940-43951.	1.6	423



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127	Creatine transporters: A reappraisal. <i>Molecular and Cellular Biochemistry</i> , 2004, 256, 407-424.	1.4	65
128	Inverse metabolic engineering with phosphagen kinase systems improves the cellular energy state. <i>Metabolic Engineering</i> , 2004, 6, 220-228.	3.6	37
129	Ligand control of interaction in vivo between ecdysteroid receptor and ultraspiracle ligand-binding domain. <i>Biochemical Journal</i> , 2004, 378, 779-784.	1.7	17
130	Metabolite Channeling: Creatine Kinase Microcompartments. , 2004, , 646-651.		16
131	Functional expression of arginine kinase improves recovery from pH stress of <i>Escherichia coli</i> . <i>Biotechnology Letters</i> , 2003, 25, 1013-1017.	1.1	27
132	LKB1 Is the Upstream Kinase in the AMP-Activated Protein Kinase Cascade. <i>Current Biology</i> , 2003, 13, 2004-2008.	1.8	1,456
133	Mammalian AMP-activated protein kinase: functional, heterotrimeric complexes by co-expression of subunits in <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 2003, 30, 230-237.	0.6	126
134	Effects of creatine supplementation in cystic fibrosis: results of a pilot study. <i>Journal of Cystic Fibrosis</i> , 2003, 2, 177-182.	0.3	14
135	Identification of Phosphorylation Sites in AMP-activated Protein Kinase (AMPK) for Upstream AMPK Kinases and Study of Their Roles by Site-directed Mutagenesis. <i>Journal of Biological Chemistry</i> , 2003, 278, 28434-28442.	1.6	204
136	Inhibition of the Mitochondrial Permeability Transition by Creatine Kinase Substrates. <i>Journal of Biological Chemistry</i> , 2003, 278, 17760-17766.	1.6	192
137	Differential Effects of Peroxynitrite on Human Mitochondrial Creatine Kinase Isoenzymes. <i>Journal of Biological Chemistry</i> , 2003, 278, 1125-1130.	1.6	61
138	Functional Expression of Phosphagen Kinase Systems Confers Resistance to Transient Stresses in <i>Saccharomyces cerevisiae</i> by Buffering the ATP Pool. <i>Journal of Biological Chemistry</i> , 2002, 277, 31303-31309.	1.6	40
139	Multiple Interference of Anthracyclines with Mitochondrial Creatine Kinases: Preferential Damage of the Cardiac Isoenzyme and Its Implications for Drug Cardiotoxicity. <i>Molecular Pharmacology</i> , 2002, 61, 516-523.	1.0	64
140	Mutation of conserved active-site threonine residues in creatine kinase affects autophosphorylation and enzyme kinetics. <i>Biochemical Journal</i> , 2002, 363, 785.	1.7	9
141	Expression of creatine kinase isoenzyme genes during postnatal development of rat brain cerebellum: evidence for transcriptional regulation. <i>Biochemical Journal</i> , 2002, 367, 369-380.	1.7	26
142	Mutation of conserved active-site threonine residues in creatine kinase affects autophosphorylation and enzyme kinetics. <i>Biochemical Journal</i> , 2002, 363, 785-792.	1.7	13
143	Isoenzyme-directed selection and characterization of anti-creatine kinase single chain Fv antibodies from a human phage display library. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2002, 1579, 124-132.	2.4	16
144	Creatine Kinase and Creatine Transporter in Normal, Wounded, and Diseased Skin. <i>Journal of Investigative Dermatology</i> , 2002, 118, 416-423.	0.3	67

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145	Expressing creatine kinase in transgenic tobacco â€“ a first step towards introducing an energy buffering system in plants. <i>Transgenic Research</i> , 2002, 11, 49-59.	1.3	7
146	Mitochondrial Creatine Kinase and Mitochondrial Outer Membrane Porin Show a Direct Interaction That Is Modulated by Calcium. <i>Journal of Biological Chemistry</i> , 2001, 276, 48027-48030.	1.6	92
147	Hodgkin diseaseâ€derived cell lines expressing ubiquitous mitochondrial creatine kinase show growth inhibition by cyclocreatine treatment independent of apoptosis. <i>International Journal of Cancer</i> , 2001, 94, 513-519.	2.3	22
148	Crystal structure of human ubiquitous mitochondrial creatine kinase. , 2000, 39, 216-225.		73
149	Vacuolar morphology and cell cycle distribution are modified by leucine limitation in auxotrophic <i>Saccharomyces cerevisiae</i> . <i>Biology of the Cell</i> , 2000, 92, 629-637.	0.7	12
150	A quantitative approach to membrane binding of human ubiquitous mitochondrial creatine kinase using surface plasmon resonance. <i>Journal of Bioenergetics and Biomembranes</i> , 2000, 32, 123-131.	1.0	32
151	Octamers of Mitochondrial Creatine Kinase Isoenzymes Differ in Stability and Membrane Binding. <i>Journal of Biological Chemistry</i> , 2000, 275, 17314-17320.	1.6	98
152	A Conserved Negatively Charged Cluster in the Active Site of Creatine Kinase Is Critical for Enzymatic Activity. <i>Journal of Biological Chemistry</i> , 2000, 275, 27094-27099.	1.6	29
153	Octamer-dimer Transitions of Mitochondrial Creatine Kinase in Heart Disease. <i>Journal of Molecular and Cellular Cardiology</i> , 1999, 31, 857-866.	0.9	57
154	Crystal structure of brainâ€type creatine kinase at 1.41 Å... resolution. <i>Protein Science</i> , 1999, 8, 2258-2269.	3.1	83
155	Title is missing!. <i>Molecular and Cellular Biochemistry</i> , 1998, 184, 141-151.	1.4	44
156	Title is missing!. <i>Molecular and Cellular Biochemistry</i> , 1998, 184, 125-140.	1.4	91
157	Some new aspects of creatine kinase (CK): compartmentation, structure, function and regulation for cellular and mitochondrial bioenergetics and physiology. <i>BioFactors</i> , 1998, 8, 229-234.	2.6	206
158	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.	1.1	62
159	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.	1.1	1
160	Functional aspects of the X-ray structure of mitochondrial creatine kinase: A molecular physiology approach. , 1998, , 125-140.		1
161	Chloroplast adenylate kinase from tobacco. Purification and partial characterization. <i>Phytochemistry</i> , 1996, 42, 589-594.	1.4	9
162	Changes in distribution of chloroplast adenylate kinase isoforms during floral induction. <i>Physiologia Plantarum</i> , 1996, 96, 319-323.	2.6	2

#	ARTICLE	IF	CITATIONS
163	Adenylate Kinase in Tobacco Cell Cultures. II. Variability and Regulation of Isoform Activity Patterns in Different Cell Lines. <i>Journal of Plant Physiology</i> , 1994, 144, 400-409.	1.6	10
164	Signaling by AMP-activated Protein Kinase. , 0, , 303-338.		6