Tuuli Kaambre

List of Publications by Year
in descending order

82 papers	2,869 citations	147566 31 h-index	182168 51 g-index
88 all docs	88 docs citations	88 times ranked	2283 citing authors

#	Article	IF	Citations
1	Striking Differences Between the Kinetics of Regulation of Respiration by ADP in Slow-Twitch and Fast-Twitch Muscles In Vivo. FEBS Journal, 1996, 241, 909-915.	0.2	175
2	Intracellular energetic units in red muscle cells. Biochemical Journal, 2001, 356, 643-657.	1.7	168
3	Possible Role of Cytoskeleton in Intracellular Arrangement and Regulation of Mitochondria. Experimental Physiology, 2003, 88, 175-190.	0.9	141
4	Functional complexes of mitochondria with Ca,MgATPases of myofibrils and sarcoplasmic reticulum in muscle cells. Biochimica Et Biophysica Acta - Bioenergetics, 2001, 1504, 379-395.	0.5	119
5	Study of regulation of mitochondrial respiration in vivo. Biochimica Et Biophysica Acta - Bioenergetics, 1997, 1322, 41-59.	0.5	115
6	Intracellular energetic units in red muscle cells. Biochemical Journal, 2001, 356, 643.	1.7	114
7	Cardiac metabolism as a driver and therapeutic target of myocardial infarction. Journal of Cellular and Molecular Medicine, 2020, 24, 5937-5954.	1.6	101
8	Structureâ€"function relationships in feedback regulation of energy fluxes in vivo in health and disease: Mitochondrial Interactosome. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 678-697.	0.5	97
9	Heterogeneity of ADP Diffusion and Regulation of Respiration in Cardiac Cells. Biophysical Journal, 2003, 84, 3436-3456.	0.2	90
10	Regulation of respiration in muscle cells in vivo by VDAC through interaction with the cytoskeleton and MtCK within Mitochondrial Interactosome. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 1545-1554.	1.4	80
11	Systems bioenergetics of creatine kinase networks: physiological roles of creatine and phosphocreatine in regulation of cardiac cell function. Amino Acids, 2011, 40, 1333-1348.	1.2	78
12	Metabolic consequences of functional complexes of mitochondria,myofibrils and sarcoplasmic reticulum in muscle cells. Journal of Experimental Biology, 2003, 206, 2059-2072.	0.8	77
13	An in situ study of bioenergetic properties of human colorectal cancer: The regulation of mitochondrial respiration and distribution of flux control among the components of ATP synthasome. International Journal of Biochemistry and Cell Biology, 2014, 55, 171-186.	1.2	70
14	Direct measurement of energy fluxes from mitochondria into cytoplasm in permeabilized cardiac cells in situ: some evidence for mitochondrial interactosome. Journal of Bioenergetics and Biomembranes, 2009, 41, 259-275.	1.0	69
15	Mitochondriaâ€"cytoskeleton interaction: Distribution of Î²-tubulins in cardiomyocytes and HL-1 cells. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 458-469.	0.5	65
16	Different kinetics of the regulation of respiration in permeabilized cardiomyocytes and in HL-1 cardiac cells. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 1597-1606.	0.5	63
17	The Creatine Kinase Phosphotransfer Network: Thermodynamic and Kinetic Considerations, the Impact of the Mitochondrial Outer Membrane and Modelling Approaches. , 2007, 46, 27-65.		57
18	Altered mitochondrial metabolism in the insulinâ€resistant heart. Acta Physiologica, 2020, 228, e13430.	1.8	56

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19	Intracellular Energetic Units regulate metabolism in cardiac cells. Journal of Molecular and Cellular Cardiology, 2012, 52, 419-436.	0.9	53
20	Metabolic remodeling in human colorectal cancer and surrounding tissues: alterations in regulation of mitochondrial respiration and metabolic fluxes. Biochemistry and Biophysics Reports, 2015, 4, 111-125.	0.7	53
21	Regulation of respiration controlled by mitochondrial creatine kinase in permeabilized cardiac cells in situ. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 1089-1105.	0.5	52
22	Ageing, sex, and cardioprotection. British Journal of Pharmacology, 2020, 177, 5270-5286.	2.7	46
23	Metabolic control analysis of cellular respiration in situ in intraoperational samples of human breast cancer. Journal of Bioenergetics and Biomembranes, 2012, 44, 539-558.	1.0	44
24	Modular organization of cardiac energy metabolism: energy conversion, transfer and feedback regulation. Acta Physiologica, 2015, 213, 84-106.	1.8	43
25	Comparative analysis of the bioenergetics of adult cardiomyocytes and nonbeating HL-1 cells: respiratory chain activities, glycolytic enzyme profiles, and metabolic fluxesThis article is one of a selection of papers from the NATO Advanced Research Workshop on Translational Knowledge for Heart Health (published in part 2 of a 2-part Special Issue).. Canadian Journal of Physiology and Pharmacology, 2009, 87, 318-326.	0.7	41
26	Role of mitochondriaâ€"cytoskeleton interactions in respiration regulation and mitochondrial organization in striated muscles. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 232-245.	0.5	41
27	Formation of highly organized intracellular structure and energy metabolism in cardiac muscle cells during postnatal development of rat heart. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 1350-1361.	0.5	40
28	Adenylate Kinase and Metabolic Signaling in Cancer Cells. Frontiers in Oncology, 2020, 10, 660.	1.3	39
29	Developmental changes in regulation of mitochondrial respiration by ADP and creatine in rat heart in vivo. Molecular and Cellular Biochemistry, 2000, 208, 119-128.	1.4	37
30	Calcium-induced contraction of sarcomeres changes the regulation of mitochondrial respiration in permeabilized cardiac cells. FEBS Journal, 2005, 272, 3145-3161.	2.2	36
31	Molecular System Bioenergics of the Heart: Experimental Studies of Metabolic Compartmentation and Energy Fluxes versus Computer Modeling. International Journal of Molecular Sciences, 2011, 12, 9296-9331.	1.8	33
32	Studies of the role of tubulin beta II isotype in regulation of mitochondrial respiration in intracellular energetic units in cardiac cells. Journal of Molecular and Cellular Cardiology, 2012, 52, 437-447.	0.9	33
33	High efficiency of energy flux controls within mitochondrial interactosome in cardiac intracellular energetic units. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 1549-1561.	0.5	32
34	On the role of tubulin, plectin, desmin, and vimentin in the regulation of mitochondrial energy fluxes in muscle cells. American Journal of Physiology - Cell Physiology, 2019, 316, C657-C667.	2.1	31
35	Tubulin Î²II and Î²III Isoforms as the Regulators of VDAC Channel Permeability in Health and Disease. Cells, 2019, 8, 239.	1.8	31
36	Simple oxygraphic analysis for the presence of adenylate kinase 1 and 2 in normal and tumor cells. Journal of Bioenergetics and Biomembranes, 2016, 48, 531-548.	1.0	27

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37	Bax and heart mitochondria: uncoupling and inhibition of respiration without permeability transition. Biochimica Et Biophysica Acta - Bioenergetics, 2002, 1556, 155-167.	0.5	25
38	Mitochondrial Respiration in Human Colorectal and Breast Cancer Clinical Material Is Regulated Differently. Oxidative Medicine and Cellular Longevity, 2017, 2017, 1-16.	1.9	25
39	Metabolic control analysis of respiration in human cancer tissue. Frontiers in Physiology, 2013, 4, 151.	1.3	24
40	Comparative analysis of some aspects of mitochondrial metabolism in differentiated and undifferentiated neuroblastoma cells. Journal of Bioenergetics and Biomembranes, 2014, 46, 17-31.	1.0	23
41	Studies of mitochondrial respiration in muscle cells in situ: Use and misuse of experimental evidence in mathematical modelling. Molecular and Cellular Biochemistry, 2004, 256, 219-227.	1.4	20
42	Study of possible interactions of tubulin, microtubular network, and STOP protein with mitochondria in muscle cells. Molecular and Cellular Biochemistry, 2010, 337, 239-249.	1.4	19
43	The role of tubulin in the mitochondrial metabolism and arrangement in muscle cells. Journal of Bioenergetics and Biomembranes, 2014, 46, 421-434.	1.0	19
44	Changes in the mitochondrial function and in the efficiency of energy transfer pathways during cardiomyocyte aging. Molecular and Cellular Biochemistry, 2017, 432, 141-158.	1.4	19
45	Colon cancer cell differentiation by sodium butyrate modulates metabolic plasticity of Caco-2 cells via alteration of phosphotransfer network. PLoS ONE, 2021, 16, e0245348.	1.1	19
46	The impact of cardiac ischemia/reperfusion on the mitochondriaâ€“cytoskeleton interactions. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2016, 1862, 1159-1171.	1.8	18
47	The complexity of mitochondrial outer membrane permeability and VDAC regulation by associated proteins. Journal of Bioenergetics and Biomembranes, 2018, 50, 339-354.	1.0	17
48	Intracellular energetic units in healthy and diseased hearts. Experimental and Clinical Cardiology, 2005, 10, 173-83.	1.3	17
49	Bioenergetics of the aging heart and skeletal muscles: Modern concepts and controversies. Ageing Research Reviews, 2016, 28, 1-14.	5.0	16
50	Polydopamine as an adhesive coating for open tubular capillary electrochromatography. Electrophoresis, 2011, 32, 1054-1060.	1.3	15
51	Mitochondrial Respiration in KRAS and BRAF Mutated Colorectal Tumors and Polyps. Cancers, 2020, 12, 815.	1.7	15
52	Matters of the heart in bioenergetics: mitochondrial fusion into continuous reticulum is not needed for maximal respiratory activity. Journal of Bioenergetics and Biomembranes, 2013, 45, 319-331.	1.0	12
53	Adenylate kinase AK2 isoform integral in embryo and adult heart homeostasis. Biochemical and Biophysical Research Communications, 2021, 546, 59-64.	1.0	12
54	Metabolic control analysis of integrated energy metabolism in permeabilized cardiomyocytes - experimental study.. Acta Biochimica Polonica, 2010, 57, .	0.3	12

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55	Intracellular Energy-Transfer Networks and High-Resolution Respirometry: A Convenient Approach for Studying Their Function. International Journal of Molecular Sciences, 2018, 19, 2933.	1.8	11
56	In situ monitoring of kinetics of metabolic conversion of ATP to ADP catalyzed by MgATPases of muscle Gastrocnemius skinned fibers using micellar electrokinetic chromatography. Electrophoresis, 2004, 25, 2996-3002.	1.3	8
57	Systems Level Regulation of Cardiac Energy Fluxes Via Metabolic Cycles: Role of Creatine, Phosphotransfer Pathways, and AMPK Signaling. Springer Series in Biophysics, 2014, , 261-320.	0.4	8
58	Metabolic control analysis of integrated energy metabolism in permeabilized cardiomyocytes - experimental study. Acta Biochimica Polonica, 2010, 57, 421-30.	0.3	8
59	Hydrolysis of emulsified mixtures of triacylglycerols by pancreatic lipase. BBA - Proteins and Proteomics, 1999, 1431, 97-106.	2.1	7
60	Mysterious Ca2+-independent muscular contraction: dÃ©jÃ vu. Biochemical Journal, 2012, 445, 333-336.	1.7	7
61	Structure-function relationships in the regulation of energy transfer between mitochondria and ATPases in cardiac cells. Experimental and Clinical Cardiology, 2006, 11, 189-94.	1.3	7
62	Lipase-catalysed enantioselective hydrolysis: Interpretation of the kinetic results in terms of frontier orbital localisation. Tetrahedron, 1997, 53, 4889-4900.	1.0	6
63	2102Ep embryonal carcinoma cells have compromised respiration and shifted bioenergetic profile distinct from H9 human embryonic stem cells. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 2146-2154.	1.1	6
64	Comparative analysis of the bioenergetics of human adenocarcinoma Caco-2 cell line and postoperative tissue samples from colorectal cancer patients. Biochemistry and Cell Biology, 2018, 96, 808-817.	0.9	6
65	Energy Metabolic Plasticity of Colorectal Cancer Cells as a Determinant of Tumor Growth and Metastasis. Frontiers in Oncology, 2021, 11, 698951.	1.3	5
66	Metabolic and OXPHOS Activities Quantified by Temporal ex vivo Analysis Display Patient-Specific Metabolic Vulnerabilities in Human Breast Cancers. Frontiers in Oncology, 2020, 10, 1053.	1.3	4
67	Stable Isotope Tracing Uncovers Reduced Î³/Î²-ATP Turnover and Metabolic Flux Through Mitochondrial-Linked Phosphotransfer Circuits in Aggressive Breast Cancer Cells. Frontiers in Oncology, 0, 12, .	1.3	4
68	Regulation of Mitochondrial Respiration by Different Tubulin Isoforms inÂVivo. Biophysical Journal, 2011, 100, 459a.	0.2	2
69	Adaptation of striated muscles to Wolframin deficiency in mice: Alterations in cellular bioenergetics. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129523.	1.1	2
70	Wolframin deficiency is accompanied with metabolic inflexibility in rat striated muscles. Biochemistry and Biophysics Reports, 2022, 30, 101250.	0.7	2
71	Editorial: Metabolic Plasticity of Cancer. Frontiers in Oncology, 2020, 10, 599723.	1.3	1
72	Intracellular energetic units in cardiac cells: Targets in primary biliary cirrhosis. Journal of Molecular and Cellular Cardiology, 2002, 34, A57.	0.9	0

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73	Selective Regulation of Mitochondrial Outer Membrane VDAC Permeability in situ in Permeabilized Cardiomyocytes. Biophysical Journal, 2009, 96, 244a.	0.2	0
74	Kinetic Studies of Intracellular Compartmentalization in Permeabilized Rat Cardiomyocytes. Biophysical Journal, 2009, 96, 241a-242a.	0.2	0
75	Novel Method for Investigation of Interactions between Mitochondrial Creatine Kinase and Adenine Nucleotide Translocase. Biophysical Journal, 2010, 98, 735a.	0.2	0
76	Mitochondrial Interactosome in Energy Metabolism in Healthy and Cancer Cells. Biophysical Journal, 2011, 100, 298a-299a.	0.2	0
77	Quantitative Analysis of Integrated Energy Metabolism of Muscle Cells: Experimental and Theoretical Studies. Biophysical Journal, 2011, 100, 2a.	0.2	0
78	Comparative investigation of bioenergetic properties of human colorectal and breast cancer. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, S135-S136.	0.5	0
79	Unpolymerized Î²II Tubulin in Regulation of Mitocondrial Function in Muscle Cells. Biophysical Journal, 2013, 104, 302a.	0.2	0
80	Regulation of Respiration in Permeabilized Muscle Cells: Apparent KM for ADP Shows the Mitochondrial Outer Membrane Permeability. Biophysical Journal, 2013, 104, 447a-448a.	0.2	0
81	A line-broadening free real-time ³¹P pure shift NMR method for phosphometabolomic analysis. Analyst, The, 2021, 146, 5502-5507.	1.7	0
82	Abstract LB-268: Rate of temporal citrate efflux from malignant mitochondria predicts clinical aggressiveness in breast tumors. , 2017, , .		0