

Tuuli Kaambre

List of Publications by Year in descending order

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Version: 2024-02-01

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	Wolframin deficiency is accompanied with metabolic inflexibility in rat striated muscles. <i>Biochemistry and Biophysics Reports</i> , 2022, 30, 101250.	0.7	2
2	A line-broadening free real-time ^{31}P pure shift NMR method for phosphometabolomic analysis. <i>Analyst</i> , 2021, 146, 5502-5507.	1.7	0
3	Colon cancer cell differentiation by sodium butyrate modulates metabolic plasticity of Caco-2 cells via alteration of phosphotransfer network. <i>PLoS ONE</i> , 2021, 16, e0245348.	1.1	19
4	Adenylate kinase AK2 isoform integral in embryo and adult heart homeostasis. <i>Biochemical and Biophysical Research Communications</i> , 2021, 546, 59-64.	1.0	12
5	Energy Metabolic Plasticity of Colorectal Cancer Cells as a Determinant of Tumor Growth and Metastasis. <i>Frontiers in Oncology</i> , 2021, 11, 698951.	1.3	5
6	Adaptation of striated muscles to Wolframin deficiency in mice: Alterations in cellular bioenergetics. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129523.	1.1	2
7	Altered mitochondrial metabolism in the insulin-resistant heart. <i>Acta Physiologica</i> , 2020, 228, e13430.	1.8	56
8	Ageing, sex, and cardioprotection. <i>British Journal of Pharmacology</i> , 2020, 177, 5270-5286.	2.7	46
9	Editorial: Metabolic Plasticity of Cancer. <i>Frontiers in Oncology</i> , 2020, 10, 599723.	1.3	1
10	Cardiac metabolism as a driver and therapeutic target of myocardial infarction. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 5937-5954.	1.6	101
11	Metabolic and OXPHOS Activities Quantified by Temporal ex vivo Analysis Display Patient-Specific Metabolic Vulnerabilities in Human Breast Cancers. <i>Frontiers in Oncology</i> , 2020, 10, 1053.	1.3	4
12	Mitochondrial Respiration in KRAS and BRAF Mutated Colorectal Tumors and Polyps. <i>Cancers</i> , 2020, 12, 815.	1.7	15
13	Adenylate Kinase and Metabolic Signaling in Cancer Cells. <i>Frontiers in Oncology</i> , 2020, 10, 660.	1.3	39
14	On the role of tubulin, plectin, desmin, and vimentin in the regulation of mitochondrial energy fluxes in muscle cells. <i>American Journal of Physiology - Cell Physiology</i> , 2019, 316, C657-C667.	2.1	31
15	Tubulin β II and β III Isoforms as the Regulators of VDAC Channel Permeability in Health and Disease. <i>Cells</i> , 2019, 8, 239.	1.8	31
16	Intracellular Energy-Transfer Networks and High-Resolution Respirometry: A Convenient Approach for Studying Their Function. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2933.	1.8	11
17	Comparative analysis of the bioenergetics of human adenocarcinoma Caco-2 cell line and postoperative tissue samples from colorectal cancer patients. <i>Biochemistry and Cell Biology</i> , 2018, 96, 808-817.	0.9	6
18	The complexity of mitochondrial outer membrane permeability and VDAC regulation by associated proteins. <i>Journal of Bioenergetics and Biomembranes</i> , 2018, 50, 339-354.	1.0	17

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19	2102Ep embryonal carcinoma cells have compromised respiration and shifted bioenergetic profile distinct from H9 human embryonic stem cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 2146-2154.	1.1	6
20	Changes in the mitochondrial function and in the efficiency of energy transfer pathways during cardiomyocyte aging. <i>Molecular and Cellular Biochemistry</i> , 2017, 432, 141-158.	1.4	19
21	Mitochondrial Respiration in Human Colorectal and Breast Cancer Clinical Material Is Regulated Differently. <i>Oxidative Medicine and Cellular Longevity</i> , 2017, 2017, 1-16.	1.9	25
22	Abstract LB-268: Rate of temporal citrate efflux from malignant mitochondria predicts clinical aggressiveness in breast tumors. , 2017, , .		0
23	Bioenergetics of the aging heart and skeletal muscles: Modern concepts and controversies. <i>Ageing Research Reviews</i> , 2016, 28, 1-14.	5.0	16
24	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
25	The impact of cardiac ischemia/reperfusion on the mitochondriaâ€“cytoskeleton interactions. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2016, 1862, 1159-1171.	1.8	18
26	Metabolic remodeling in human colorectal cancer and surrounding tissues: alterations in regulation of mitochondrial respiration and metabolic fluxes. <i>Biochemistry and Biophysics Reports</i> , 2015, 4, 111-125.	0.7	53
27	Modular organization of cardiac energy metabolism: energy conversion, transfer and feedback regulation. <i>Acta Physiologica</i> , 2015, 213, 84-106.	1.8	43
28	Formation of highly organized intracellular structure and energy metabolism in cardiac muscle cells during postnatal development of rat heart. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 1350-1361.	0.5	40
29	Role of mitochondriaâ€“cytoskeleton interactions in respiration regulation and mitochondrial organization in striated muscles. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 232-245.	0.5	41
30	Comparative analysis of some aspects of mitochondrial metabolism in differentiated and undifferentiated neuroblastoma cells. <i>Journal of Bioenergetics and Biomembranes</i> , 2014, 46, 17-31.	1.0	23
31	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. <i>International Journal of Biochemistry and Cell Biology</i> , 2014, 55, 171-186.	1.2	70
32	The role of tubulin in the mitochondrial metabolism and arrangement in muscle cells. <i>Journal of Bioenergetics and Biomembranes</i> , 2014, 46, 421-434.	1.0	19
33	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
34	Unpolymerized β -Tubulin in Regulation of Mitochondrial Function in Muscle Cells. <i>Biophysical Journal</i> , 2013, 104, 302a.	0.2	0
35	Regulation of Respiration in Permeabilized Muscle Cells: Apparent K_M for ADP Shows the Mitochondrial Outer Membrane Permeability. <i>Biophysical Journal</i> , 2013, 104, 447a-448a.	0.2	0
36	Matters of the heart in bioenergetics: mitochondrial fusion into continuous reticulum is not needed for maximal respiratory activity. <i>Journal of Bioenergetics and Biomembranes</i> , 2013, 45, 319-331.	1.0	12

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37	Metabolic control analysis of respiration in human cancer tissue. <i>Frontiers in Physiology</i> , 2013, 4, 151.	1.3	24
38	Metabolic control analysis of cellular respiration in situ in intraoperational samples of human breast cancer. <i>Journal of Bioenergetics and Biomembranes</i> , 2012, 44, 539-558.	1.0	44
39	Intracellular Energetic Units regulate metabolism in cardiac cells. <i>Journal of Molecular and Cellular Cardiology</i> , 2012, 52, 419-436.	0.9	53
40	Studies of the role of tubulin beta II isotype in regulation of mitochondrial respiration in intracellular energetic units in cardiac cells. <i>Journal of Molecular and Cellular Cardiology</i> , 2012, 52, 437-447.	0.9	33
41	Mysterious Ca ²⁺ -independent muscular contraction: dÃ©jÃ© vu. <i>Biochemical Journal</i> , 2012, 445, 333-336.	1.7	7
42	Comparative investigation of bioenergetic properties of human colorectal and breast cancer. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, S135-S136.	0.5	0
43	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
44	Mitochondrial Interactosome in Energy Metabolism in Healthy and Cancer Cells. <i>Biophysical Journal</i> , 2011, 100, 298a-299a.	0.2	0
45	Quantitative Analysis of Integrated Energy Metabolism of Muscle Cells: Experimental and Theoretical Studies. <i>Biophysical Journal</i> , 2011, 100, 2a.	0.2	0
46	Regulation of Mitochondrial Respiration by Different Tubulin Isoforms in Vivo. <i>Biophysical Journal</i> , 2011, 100, 459a.	0.2	2
47	Mitochondria-cytoskeleton interaction: Distribution of Î²-tubulins in cardiomyocytes and HL-1 cells. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011, 1807, 458-469.	0.5	65
48	High efficiency of energy flux controls within mitochondrial interactosome in cardiac intracellular energetic units. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011, 1807, 1549-1561.	0.5	32
49	Systems bioenergetics of creatine kinase networks: physiological roles of creatine and phosphocreatine in regulation of cardiac cell function. <i>Amino Acids</i> , 2011, 40, 1333-1348.	1.2	78
50	Polydopamine as an adhesive coating for open tubular capillary electrochromatography. <i>Electrophoresis</i> , 2011, 32, 1054-1060.	1.3	15
51	Molecular System Bioenergetics of the Heart: Experimental Studies of Metabolic Compartmentation and Energy Fluxes versus Computer Modeling. <i>International Journal of Molecular Sciences</i> , 2011, 12, 9296-9331.	1.8	33
52	Study of possible interactions of tubulin, microtubular network, and STOP protein with mitochondria in muscle cells. <i>Molecular and Cellular Biochemistry</i> , 2010, 337, 239-249.	1.4	19
53	Structure-function relationships in feedback regulation of energy fluxes in vivo in health and disease: Mitochondrial Interactosome. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 678-697.	0.5	97
54	Novel Method for Investigation of Interactions between Mitochondrial Creatine Kinase and Adenine Nucleotide Translocase. <i>Biophysical Journal</i> , 2010, 98, 735a.	0.2	0

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55	Metabolic control analysis of integrated energy metabolism in permeabilized cardiomyocytes - experimental study.. Acta Biochimica Polonica, 2010, 57, .	0.3	12
56	Metabolic control analysis of integrated energy metabolism in permeabilized cardiomyocytes - experimental study. Acta Biochimica Polonica, 2010, 57, 421-30.	0.3	8
57	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
58	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
59	Selective Regulation of Mitochondrial Outer Membrane VDAC Permeability in situ in Permeabilized Cardiomyocytes. Biophysical Journal, 2009, 96, 244a.	0.2	0
60	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
61	Kinetic Studies of Intracellular Compartmentalization in Permeabilized Rat Cardiomyocytes. Biophysical Journal, 2009, 96, 241a-242a.	0.2	0
62	The Creatine Kinase Phosphotransfer Network: Thermodynamic and Kinetic Considerations, the Impact of the Mitochondrial Outer Membrane and Modelling Approaches. , 2007, 46, 27-65.		57
63	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
64	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
65	Calcium-induced contraction of sarcomeres changes the regulation of mitochondrial respiration in permeabilized cardiac cells. FEBS Journal, 2005, 272, 3145-3161.	2.2	36
66	Intracellular energetic units in healthy and diseased hearts. Experimental and Clinical Cardiology, 2005, 10, 173-83.	1.3	17
67	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
68	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
69	Possible Role of Cytoskeleton in Intracellular Arrangement and Regulation of Mitochondria. Experimental Physiology, 2003, 88, 175-190.	0.9	141
70	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
71	Heterogeneity of ADP Diffusion and Regulation of Respiration in Cardiac Cells. Biophysical Journal, 2003, 84, 3436-3456.	0.2	90
72	Bax and heart mitochondria: uncoupling and inhibition of respiration without permeability transition. Biochimica Et Biophysica Acta - Bioenergetics, 2002, 1556, 155-167.	0.5	25

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73	Intracellular energetic units in cardiac cells: Targets in primary biliary cirrhosis. <i>Journal of Molecular and Cellular Cardiology</i> , 2002, 34, A57.	0.9	0
74	Functional complexes of mitochondria with Ca,MgATPases of myofibrils and sarcoplasmic reticulum in muscle cells. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2001, 1504, 379-395.	0.5	119
75	Intracellular energetic units in red muscle cells. <i>Biochemical Journal</i> , 2001, 356, 643-657.	1.7	168
76	Intracellular energetic units in red muscle cells. <i>Biochemical Journal</i> , 2001, 356, 643.	1.7	114
77	Developmental changes in regulation of mitochondrial respiration by ADP and creatine in rat heart in vivo. <i>Molecular and Cellular Biochemistry</i> , 2000, 208, 119-128.	1.4	37
78	Hydrolysis of emulsified mixtures of triacylglycerols by pancreatic lipase. <i>BBA - Proteins and Proteomics</i> , 1999, 1431, 97-106.	2.1	7
79	Study of regulation of mitochondrial respiration in vivo. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1997, 1322, 41-59.	0.5	115
80	Lipase-catalysed enantioselective hydrolysis: Interpretation of the kinetic results in terms of frontier orbital localisation. <i>Tetrahedron</i> , 1997, 53, 4889-4900.	1.0	6
81	Striking Differences Between the Kinetics of Regulation of Respiration by ADP in Slow-Twitch and Fast-Twitch Muscles In Vivo. <i>FEBS Journal</i> , 1996, 241, 909-915.	0.2	175
82	Stable Isotope Tracing Uncovers Reduced ^{13}C -ATP Turnover and Metabolic Flux Through Mitochondrial-Linked Phosphotransfer Circuits in Aggressive Breast Cancer Cells. <i>Frontiers in Oncology</i> , 0, 12, .	1.3	4