

Erkan Tuncay

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

1,357
citations

393982

19
h-index

360668

35
g-index

74
all docs

74
docs citations

74
times ranked

2031
citing authors

#	ARTICLE	IF	CITATIONS
1	European contribution to the study of ROS: A summary of the findings and prospects for the future from the COST action BM1203 (EU-ROS). <i>Redox Biology</i> , 2017, 13, 94-162.	3.9	242
2	A SGLT2 inhibitor dapagliflozin suppresses prolonged ventricular-repolarization through augmentation of mitochondrial function in insulin-resistant metabolic syndrome rats. <i>Cardiovascular Diabetology</i> , 2018, 17, 144.	2.7	105
3	Mitochondrial and ER-Targeted eCALWY Probes Reveal High Levels of Free Zn ²⁺ . <i>ACS Chemical Biology</i> , 2014, 9, 2111-2120.	1.6	102
4	Resveratrol and diabetic cardiac function: focus on recent in vitro and in vivo studies. <i>Journal of Bioenergetics and Biomembranes</i> , 2012, 44, 281-296.	1.0	70
5	Hyperglycemia-Induced Changes in ZIP7 and ZnT7 Expression Cause Zn ²⁺ Release From the Sarco(endo)plasmic Reticulum and Mediate ER Stress in the Heart. <i>Diabetes</i> , 2017, 66, 1346-1358.	0.3	66
6	Altered mitochondrial metabolism in the insulin-resistant heart. <i>Acta Physiologica</i> , 2020, 228, e13430.	1.8	56
7	Intracellular free zinc during cardiac excitation-contraction cycle: calcium and redox dependencies. <i>Cardiovascular Research</i> , 2011, 89, 634-642.	1.8	54
8	β-Blocker Timolol Prevents Arrhythmogenic Ca ²⁺ Release and Normalizes Ca ²⁺ and Zn ²⁺ Dyshomeostasis in Hyperglycemic Rat Heart. <i>PLoS ONE</i> , 2013, 8, e71014.	1.1	44
9	Zn ²⁺ -transporters ZIP7 and ZnT7 play important role in progression of cardiac dysfunction via affecting sarco(endo)plasmic reticulum-mitochondria coupling in hyperglycemic cardiomyocytes. <i>Mitochondrion</i> , 2019, 44, 41-52.	1.6	40
10	Cardioprotective effect of selenium via modulation of cardiac ryanodine receptor calcium release channels in diabetic rat cardiomyocytes through thioredoxin system. <i>Journal of Nutritional Biochemistry</i> , 2013, 24, 2110-2118.	1.9	34
11	Sex-related effects on diabetes-induced alterations in calcium release in the rat heart. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 293, H3584-H3592.	1.5	32
12	Gender related differential effects of Omega-3E treatment on diabetes-induced left ventricular dysfunction. <i>Molecular and Cellular Biochemistry</i> , 2007, 304, 255-263.	1.4	31
13	Intracellular Zn ²⁺ Increase in Cardiomyocytes Induces both Electrical and Mechanical Dysfunction in Heart via Endogenous Generation of Reactive Nitrogen Species. <i>Biological Trace Element Research</i> , 2016, 169, 294-302.	1.9	31
14	Enhancement of Cellular Antioxidant-Defence Preserves Diastolic Dysfunction via Regulation of Both Diastolic Zn ²⁺ and Ca ²⁺ and Prevention of RyR2-Leak in Hyperglycemic Cardiomyocytes. <i>Oxidative Medicine and Cellular Longevity</i> , 2014, 2014, 1-15.	1.9	30
15	Impact of Labile Zinc on Heart Function: From Physiology to Pathophysiology. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2395.	1.8	30
16	Ageing-associated increase in SGLT2 disrupts mitochondrial/sarcoplasmic reticulum Ca ²⁺ homeostasis and promotes cardiac dysfunction. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 8567-8578.	1.6	27
17	Increased free Zn ²⁺ correlates induction of sarco(endo)plasmic reticulum stress via altered expression levels of Zn ²⁺ transporters in heart failure. <i>Journal of Cellular and Molecular Medicine</i> , 2018, 22, 1944-1956.	1.6	25
18	Beta-blocker timolol alleviates hyperglycemia-induced cardiac damage via inhibition of endoplasmic reticulum stress. <i>Journal of Bioenergetics and Biomembranes</i> , 2014, 46, 377-387.	1.0	23

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19	Profiling of cardiac β^2 -adrenoceptor subtypes in the cardiac left ventricle of rats with metabolic syndrome: Comparison with streptozotocin-induced diabetic rats. <i>Canadian Journal of Physiology and Pharmacology</i> , 2015, 93, 517-525.	0.7	21
20	Interplay Between Cytosolic Free Zn^{2+} and Mitochondrion Morphological Changes in Rat Ventricular Cardiomyocytes. <i>Biological Trace Element Research</i> , 2016, 174, 177-188.	1.9	20
21	MitoTEMPO provides an antiarrhythmic effect in aged-rats through attenuation of mitochondrial reactive oxygen species. <i>Experimental Gerontology</i> , 2020, 136, 110961.	1.2	20
22	Onset of decreased heart work is correlated with increased heart rate and shortened QT interval in high-carbohydrate fed overweight rats. <i>Canadian Journal of Physiology and Pharmacology</i> , 2017, 95, 1335-1342.	0.7	19
23	Mitochondria-Targeting Antioxidant Provides Cardioprotection through Regulation of Cytosolic and Mitochondrial Zn^{2+} Levels with Re-Distribution of Zn^{2+} -Transporters in Aged Rat Cardiomyocytes. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3783.	1.8	19
24	Antioxidants but not Doxycycline Treatments Restore Depressed Beta-Adrenergic Responses of the Heart in Diabetic Rats. <i>Cardiovascular Toxicology</i> , 2009, 9, 21-29.	1.1	17
25	Cardioprotective effect of propranolol on diabetes-induced altered intracellular Ca^{2+} signaling in rat. <i>Journal of Bioenergetics and Biomembranes</i> , 2011, 43, 747-756.	1.0	16
26	Cytosolic increased labile Zn^{2+} contributes to arrhythmogenic action potentials in left ventricular cardiomyocytes through protein thiol oxidation and cellular ATP depletion. <i>Journal of Trace Elements in Medicine and Biology</i> , 2018, 48, 202-212.	1.5	14
27	Improvement of Functional Recovery of Donor Heart Following Cold Static Storage with Doxycycline Cardioplegia. <i>Cardiovascular Toxicology</i> , 2014, 14, 64-73.	1.1	13
28	Long-term treatment with a beta-blocker timolol attenuates renal-damage in diabetic rats via enhancing kidney antioxidant-defense system. <i>Molecular and Cellular Biochemistry</i> , 2014, 395, 177-186.	1.4	11
29	Differential expression of genes participating in cardiomyocyte electrophysiological remodeling via membrane ionic mechanisms and Ca^{2+} -handling in human heart failure. <i>Molecular and Cellular Biochemistry</i> , 2020, 463, 33-44.	1.4	10
30	The role of labile Zn^{2+} and Zn^{2+} -transporters in the pathophysiology of mitochondria dysfunction in cardiomyocytes. <i>Molecular and Cellular Biochemistry</i> , 2021, 476, 971-989.	1.4	10
31	Glucagon-like peptide-1 receptor agonist treatment of high carbohydrate intake-induced metabolic syndrome provides pleiotropic effects on cardiac dysfunction through alleviations in electrical and intracellular Ca^{2+} abnormalities and mitochondrial dysfunction. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2022, 49, 46-59.	0.9	10
32	Age-related regulation of excitation-contraction coupling in rat heart. <i>Journal of Physiology and Biochemistry</i> , 2011, 67, 317-330.	1.3	9
33	Azoramide improves mitochondrial dysfunction in palmitate-induced insulin resistant H9c2 cells. <i>Molecular and Cellular Biochemistry</i> , 2019, 461, 65-72.	1.4	9
34	Effects of β^2 -adrenergic receptor blockers on cardiac function: a comparative study in male versus female rats This 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).. <i>Canadian Journal of Physiology and Pharmacology</i> , 2009, 87, 310-317.	0.7	8
35	Profound cardioprotection with timolol in a female rat model of aging-related altered left ventricular function. <i>Canadian Journal of Physiology and Pharmacology</i> , 2011, 89, 277-288.	0.7	8
36	Intermittent Hypoxia Induced Beneficial Cardiovascular Remodeling in Left Ventricular Function of Type 1 Diabetic Rat. <i>Anatolian Journal of Cardiology</i> , 2018, 19, 259-266.	0.5	8

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37	Insulin acts as an atypical KCNQ1/KCNE1 current activator and reverses long QT in insulin-resistant aged rats by accelerating the ventricular action potential repolarization through affecting the β_2 -adrenergic receptor signaling pathway. <i>Journal of Cellular Physiology</i> , 2022, 237, 1353-1371.	2.0	8
38	β_2 -adrenergic receptor activation plays an important role in the depressed myocardial contractility via both elevated levels of cellular free Zn ²⁺ and reactive nitrogen species. <i>Journal of Cellular Physiology</i> , 2019, 234, 13370-13386.	2.0	7
39	Ticagrelor reverses the mitochondrial dysfunction through preventing accumulated autophagosomes-dependent apoptosis and ER stress in insulin-resistant H9c2 myocytes. <i>Molecular and Cellular Biochemistry</i> , 2020, 469, 97-107.	1.4	7
40	Demonstration of subcellular migration of CK2 localization from nucleus to sarco(endo)plasmic reticulum in mammalian cardiomyocytes under hyperglycemia. <i>Molecular and Cellular Biochemistry</i> , 2018, 443, 25-36.	1.4	6
41	Molecular and Electrophysiological Role of Diabetes-Associated Circulating Inflammatory Factors in Cardiac Arrhythmia Remodeling in a Metabolic-Induced Model of Type 2 Diabetic Rat. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6827.	1.8	6
42	Intracellular Free Zinc Ion Increase Triggers Hyperglycemia-Induced Cardiomyocyte Dysfunction through Endoplasmic Reticulum Stress. <i>Biophysical Journal</i> , 2014, 106, 113a.	0.2	4
43	Immuno-spin trapping detection of antioxidant/pro-oxidant properties of zinc or selenium on DNA and protein radical formation via hydrogen peroxide. <i>Molecular and Cellular Biochemistry</i> , 2015, 409, 23-31.	1.4	4
44	Ticagrelor alleviates high-carbohydrate intake induced altered electrical activity of ventricular cardiomyocytes by regulating sarcoplasmic reticulum-mitochondria miscommunication. <i>Molecular and Cellular Biochemistry</i> , 2021, 476, 3827-3844.	1.4	4
45	Comparisons of pleiotropic effects of SGLT2 inhibition and GLP-1 agonism on cardiac glucose intolerance in heart dysfunction. <i>Molecular and Cellular Biochemistry</i> , 2022, 477, 2609-2625.	1.4	4
46	Regulation of cardiac β_2 -adrenergic receptors in hyperglycemia. <i>Indian Journal of Biochemistry and Biophysics</i> , 2014, 51, 483-92.	0.2	2
47	Astaxanthin Enhances Gingival Wound Healing following High Glucose-Induced Oxidative Stress. <i>BioMed Research International</i> , 2022, 2022, 1-7.	0.9	2
48	Sex differences affect Ca ²⁺ sparks parameters in normal and diabetic rat ventricular cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2007, 42, S109-S110.	0.9	1
49	Enhancement of Antioxidant Defence Preserves RyR2 Function of Hyperglycemic Cardiomyocytes via Regulation of both Intracellular Zn ²⁺ and Ca ²⁺ Homeostasis. <i>Biophysical Journal</i> , 2013, 104, 284a-285a.	0.2	1
50	Activation of β_2 -Adrenoceptors Induces Increase in Intracellular Free Zinc Ion via No Signaling Pathway in Hyperglycemic Cardiomyocytes. <i>Biophysical Journal</i> , 2013, 104, 614a.	0.2	1
51	STIM1-Orai1 interaction mediated calcium influx activation contributes to cardiac contractility of insulin-resistant rats. <i>BMC Cardiovascular Disorders</i> , 2022, 22, 147.	0.7	1
52	Sex related differential effects of omega-3E treatment on diabetes-induced left ventricular dysfunction. <i>Journal of Molecular and Cellular Cardiology</i> , 2007, 42, S110.	0.9	0
53	Beneficial effect of sodium selenate on vascular dysfunction in diabetic rats. <i>Journal of Molecular and Cellular Cardiology</i> , 2007, 42, S229.	0.9	0
54	Antioxidants but not doxycycline restore depressed β_2 -adrenergic responses of the heart in diabetic rats. <i>Journal of Molecular and Cellular Cardiology</i> , 2008, 44, 746.	0.9	0

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55	Beneficial effects of non-selective beta blockers on mechanical and electrical activities of diabetic rat heart. <i>Journal of Molecular and Cellular Cardiology</i> , 2008, 44, 775.	0.9	0
56	Beneficial effects of long-term treatment with beta-adrenergic blocker on depressed heart function of female rats. <i>Journal of Molecular and Cellular Cardiology</i> , 2008, 44, 816.	0.9	0
57	Intracellular Zn ²⁺ Release Modulates Cardiac Ryanodine Receptor Function and Cellular Activity. <i>Biophysical Journal</i> , 2010, 98, 334a.	0.2	0
58	Association Between β -Adrenoceptor Activation and Intracellular Free Zinc Ion Increase Contributes to Hyperglycemia-Induced Cardiac ER-Stress. <i>Biophysical Journal</i> , 2016, 110, 433a-434a.	0.2	0
59	An Investigation on Electrical Activity and Sarcolemmal K ⁺ -Channels in Cardiomyocytes from Insulin-Resistant Rat Heart. <i>Biophysical Journal</i> , 2016, 110, 272a-273a.	0.2	0
60	Age-Related Changes in Electrical Activities and Micrnas of Left Ventricular Cardiomyocytes Isolated from Rat Heart. <i>Biophysical Journal</i> , 2016, 110, 587a.	0.2	0
61	Role of ZIP7 in Regulation of Cytosolic Free Zn ²⁺ Level in Mammalian Cardiomyocytes. <i>Biophysical Journal</i> , 2016, 110, 588a.	0.2	0
62	Role of Zinc Transporters in Mammalian Heart under Physiological and Pathological Conditions. <i>Biophysical Journal</i> , 2017, 112, 538a.	0.2	0
63	Inhibitor of Protein Kinase G Preserves Prolonged Ventricular Action Potentials via Improvement of Slow-Activated Voltage-Dependent K ⁺ -Channel Currents in Aged Rat Cardiomyocytes. <i>Biophysical Journal</i> , 2019, 116, 98a.	0.2	0
64	Sirtuins Positively Regulate KATP Channels, Which Contributes to their Cardioprotective Role. <i>Biophysical Journal</i> , 2019, 116, 250a.	0.2	0
65	Investigation of the Effect of the Antiaggregant Agent Ticagrelor on the Electrical and Mechanical Activities of Rat Heart With Type 1 Diabetes. <i>Journal of Ankara University Faculty of Medicine</i> , 2021, 74, 206-212.	0.0	0
66	Bimodal Effects of P2Y ₁₂ Antagonism on Matrix Metalloproteinase-Associated Contractile Dysfunction in Insulin-Resistant Mammalian Heart. <i>Biological Trace Element Research</i> , 2021, , 1.	1.9	0
67	Timolol treatment of diabetic rats improved basal cardiac function and responses to β -but not α - and β -receptors stimulations. <i>FASEB Journal</i> , 2011, 25, 1098.4.	0.2	0
68	Dynamic imaging of compartmentalised intracellular free Zn ²⁺ concentrations in rat ventricular cardiomyocytes. <i>FASEB Journal</i> , 2015, 29, 951.3.	0.2	0
69	Roles of Intracellular Free Zn ²⁺ on Electrical and Mechanical Activities of the Heart. <i>FASEB Journal</i> , 2015, 29, 1042.3.	0.2	0
70	The Role of Crosslinks Between Endoplasmic Reticulum Stress, Oxidative stress and Mitochondrial dysfunction in Cardiomyocytes and H9c2 Cells under Hyperglycemia. <i>FASEB Journal</i> , 2015, 29, 1025.5.	0.2	0