Denis V Abramochkin

List of Publications by Year
in descending order

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81	697	567281 15	713466 21
papers	citations	h-index	g-index

83	83	83	735
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Influence of mechanical stress on fibroblastâ€“myocyte interactions in mammalian heart. Journal of Molecular and Cellular Cardiology, 2014, 70, 27-36.	1.9	37
2	Normobaric, intermittent hypoxia conditioning is cardio- and vasoprotective in rats. Experimental Biology and Medicine, 2013, 238, 1413-1420.	2.4	35
3	Seasonal acclimatization of the cardiac potassium currents (IK1 and IKr) in an arctic marine teleost, the navaga cod (Eleginus navaga). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2015, 185, 883-890.	1.5	28
4	Hydrogen peroxide affects ion channels in lily pollen grain protoplasts. Plant Biology, 2016, 18, 761-767.	3.8	26
5	Transcripts of Kv7.1 and MinK channels and slow delayed rectifier K+ current (IKs) are expressed in zebrafish (Danio rerio) heart. Pflugers Archiv European Journal of Physiology, 2018, 470, 1753-1764.	2.8	26
6	Detergent-free solubilization of human Kv channels expressed in mammalian cells. Chemistry and Physics of Lipids, 2019, 219, 50-57.	3.2	25
7	Modulation of rabbit sinoatrial node activation sequence by acetylcholine and isoproterenol investigated with optical mapping technique. Acta Physiologica, 2009, 196, 385-394.	3.8	24
8	Functional M3 cholinoreceptors are present in pacemaker and working myocardium of murine heart. Pflugers Archiv European Journal of Physiology, 2012, 463, 523-529.	2.8	23
9	Nonâ€quantal release of acetylcholine from parasympathetic nerve terminals in the right atrium of rats. Experimental Physiology, 2010, 95, 265-273.	2.0	22
10	The Effect of Hydrogen Sulfide on Electrical Activity of Rat Atrial Myocardium. Bulletin of Experimental Biology and Medicine, 2009, 147, 683-686.	0.8	19
11	Seasonal acclimatization of the cardiac action potential in the Arctic navaga cod (Eleginus navaga,) Tj ETQq1 1 0.784314 rgBT /Overlock 2014, 184, 319-327.	1.5	19
12	Seasonal changes of cholinergic response in the atrium of Arctic navaga cod (Eleginus navaga). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2017, 187, 329-338.	1.5	18
13	Inhibition of the cardiac ATP-dependent potassium current by KB-R7943. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2014, 175, 38-45.	1.8	16
14	Diadenosine tetra- and pentaphosphates affect contractility and bioelectrical activity in the rat heart via P2 purinergic receptors. Naunyn-Schmiedeberg's Archives of Pharmacology, 2016, 389, 303-313.	3.0	16
15	Maximum heart rate in brown trout (Salmo trutta fario) is not limited by firing rate of pacemaker cells. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2017, 312, R165-R171.	1.8	16
16	Thermal acclimation and seasonal acclimatization: a comparative study of cardiac response to prolonged temperature change in shorthorn sculpin. Journal of Experimental Biology, 2019, 222, .	1.7	16
17	TNF-Î± provokes electrical abnormalities in rat atrial myocardium via a NO-dependent mechanism. Pflugers Archiv European Journal of Physiology, 2013, 465, 1741-1752.	2.8	15
18	Carbon monoxide affects electrical and contractile activity of rat myocardium. Journal of Biomedical Science, 2011, 18, 40.	7.0	13

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19	Effects of acetylcholinesterase inhibitor paraoxon denote the possibility of non-quantal acetylcholine release in myocardium of different vertebrates. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2012, 182, 101-108.	1.5	12
20	Effects of exogenous nicotinamide adenine dinucleotide (NAD+) in the rat heart are mediated by P2 purine receptors. Journal of Biomedical Science, 2016, 23, 50.	7.0	12
21	Temperature- and external K+-dependence of electrical excitation in ventricular myocytes of cod-like fishes. Journal of Experimental Biology, 2019, 222, .	1.7	11
22	Phenanthrene alters the electrical activity of atrial and ventricular myocytes of a polar fish, the Navaga cod. Aquatic Toxicology, 2021, 235, 105823.	4.0	11
23	Both neuronal and non-neuronal acetylcholine take part in non-quantal acetylcholine release in the rat atrium. Life Sciences, 2012, 91, 1023-1026.	4.3	10
24	Attenuation of inward rectifier potassium current contributes to the Î±1â€adrenergic receptorâ€induced proarrhythmicity in the caval vein myocardium. Acta Physiologica, 2021, 231, e13597.	3.8	10
25	Inhibition of the cardiac inward rectifier potassium currents by KB-R7943. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2013, 158, 181-186.	2.6	9
26	Carbon monoxide modulates electrical activity of murine myocardium via cGMP-dependent mechanisms. Journal of Physiology and Biochemistry, 2015, 71, 107-119.	3.0	9
27	Negative inotropic effects of diadenosine tetraphosphate are mediated by protein kinase C and phosphodiesterases stimulation in the rat heart. European Journal of Pharmacology, 2018, 820, 97-105.	3.5	9
28	A characterization of the electrophysiological properties of the cardiomyocytes from ventricle, atrium and sinus venosus of the snake heart. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2020, 190, 63-73.	1.5	9
29	Migraineâ€Associated Mutation in the Na,Kâ€ATPase Leads to Disturbances in Cardiac Metabolism and Reduced Cardiac Function. Journal of the American Heart Association, 2022, 11, e021814.	3.7	9
30	Effects of Nicotinamide Adenine Dinucleotide (NAD+) and Diadenosine Tetraphosphate (Ap4A) on Electrical Activity of Working and Pacemaker Atrial Myocardium in Guinea Pigs. Bulletin of Experimental Biology and Medicine, 2016, 160, 733-736.	0.8	8
31	Extracellular ATP and Î²-NAD alter electrical properties and cholinergic effects in the rat heart in age-specific manner. Purinergic Signalling, 2019, 15, 107-117.	2.2	8
32	Ionic basis of atrioventricular conduction: ion channel expression and sarcolemmal ion currents of the atrioventricular canal of the rainbow trout (Oncorhynchus mykiss) heart. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2021, 191, 327-346.	1.5	8
33	Repolarizing potassium currents in working myocardium of Japanese quail: a novel translational model for cardiac electrophysiology. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2021, 255, 110919.	1.8	8
34	The role of activation of two different sGC binding sites by NOâ€dependent and NOâ€independent mechanisms in the regulation of SACs in rat ventricular cardiomyocytes. Physiological Reports, 2022, 10, e15246.	1.7	8
35	A New Class III Antiarrhythmic Drug Niferidil Prolongs Action Potentials in Guinea Pig Atrial Myocardium via Inhibition of Rapid Delayed Rectifier. Cardiovascular Drugs and Therapy, 2017, 31, 525-533.	2.6	7
36	Mechanisms of Cardiac Muscle Insensitivity to a Novel Acetylcholinesterase Inhibitor C-547. Journal of Cardiovascular Pharmacology, 2009, 53, 162-166.	1.9	6

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37	Cholinergic modulation of activation sequence in the atrial myocardium of non-mammalian vertebrates. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2010, 155, 231-236.	1.8	6
38	Inotropic Effects of Gaseous Transmitters in Isolated Rat Heart Preparation. Bulletin of Experimental Biology and Medicine, 2012, 153, 856-858.	0.8	6
39	Nonâ€quantal release of acetylcholine in rat atrial myocardium is inhibited by noradrenaline. Experimental Physiology, 2013, 98, 1659-1667.	2.0	6
40	Effects of Interleukin-18 on Bioelectric Activity of Rat Atrial Cardiomyocytes under Normal Conditions and during Gradual Stretching of the Tissue. Bulletin of Experimental Biology and Medicine, 2014, 157, 409-412.	0.8	6
41	L-type Ca2+ channelsâ€™ involvement in IFN-Î³-induced signaling in rat ventricular cardiomyocytes. Journal of Physiology and Biochemistry, 2019, 75, 109-115.	3.0	6
42	Effect of ischemic preconditioning and a Kv7 channel blocker on cardiac ischemia-reperfusion injury in rats. European Journal of Pharmacology, 2020, 866, 172820.	3.5	6
43	Cardiophysiological responses of the air-breathing Alaska blackfish to cold acclimation and chronic hypoxic submergence at 5Â°C. Journal of Experimental Biology, 2020, 223, .	1.7	6
44	Decrease in the Sensitivity of Myocardium to M3 Muscarinic Receptor Stimulation during Postnatal Ontogenisis. Acta Naturae, 2016, 8, 127-131.	1.7	6
45	A new potassium ion current induced by stimulation of M2-cholinoreceptors in fish atrial myocytes. Journal of Experimental Biology, 2014, 217, 1745-51.	1.7	5
46	Effects of new class III antiarrhythmic drug niferidil on electrical activity in murine ventricular myocardium and their ionic mechanisms. Naunyn-Schmiedeberg's Archives of Pharmacology, 2015, 388, 1105-1112.	3.0	5
47	Diadenosine pentaphosphate affects electrical activity in guinea pig atrium via activation of potassium acetylcholine-dependent inward rectifier. Journal of Physiological Sciences, 2017, 67, 523-529.	2.1	5
48	M3 cholinoreceptors alter electrical activity of rat left atrium via suppression of L-type Ca2+ current without affecting K+ conductance. Journal of Physiology and Biochemistry, 2017, 73, 167-174.	3.0	5
49	Small Gâ€”protein RhoA is a potential inhibitor of cardiac fast sodium current. Journal of Physiology and Biochemistry, 2021, 77, 13-23.	3.0	5
50	Micro-RNA 133a-3p induces repolarization abnormalities in atrial myocardium and modulates ventricular electrophysiology affecting ICa,L and Ito currents. European Journal of Pharmacology, 2021, 908, 174369.	3.5	5
51	Ionic currents underlying different patterns of electrical activity in working cardiac myocytes of mammals and non-mammalian vertebrates. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2022, 268, 111204.	1.8	5
52	The role of diadenosine pentaphosphate and nicotinamide adenine dinucleotide (NAD+) as potential nucleotide comediators in the adrenergic regulation of cardiac function. Neurochemical Journal, 2017, 11, 63-71.	0.5	4
53	Warmer, faster, stronger: Ca2+ cycling in avian myocardium. Journal of Experimental Biology, 2020, 223, .	1.7	4
54	Î±1-adrenergic receptors accompanied by GATA4 expression are related to proarrhythmic conduction and automaticity in rat interatrial septum. Journal of Physiology and Biochemistry, 2022, 78, 793-805.	3.0	4

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55	The Role of Proinflammatory Cytokines in Regulation of Cardiac Bioelectrical Activity: Link to Mechanoelectrical Feedback. , 2012, , 107-153.		3
56	Effect of Selective Stimulation of Muscarinic M3 Cholinoceptors on Electrical and Contractile Activity of Rat Ventricular Myocardium. Bulletin of Experimental Biology and Medicine, 2013, 154, 295-298.	0.8	3
57	Different Myocardial Sensitivity in Newborn and Mature Rats to Selective Stimulation of M3 Cholinoreceptors. Bulletin of Experimental Biology and Medicine, 2015, 159, 8-10.	0.8	3
58	Effects of new antiarrhythmic agent SS-68 on excitation conduction, electrical activity in Purkinje fibers and pulmonary veins: Assessment of safety and side effects risk. Journal of Pharmacological Sciences, 2017, 133, 122-129.	2.5	3
59	Electrophysiological differences in cholinergic signaling between the hearts of summer and winter frogs (Rana temporaria). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2018, 188, 649-656.	1.5	3
60	Transcript expression of inward rectifier potassium channels of Kir2 subfamily in Arctic marine and freshwater fish species. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2019, 189, 735-749.	1.5	3
61	Gadolinium as an Inhibitor of Ionic Currents in Isolated Rat Ventricular Cardiomyocytes. Bulletin of Experimental Biology and Medicine, 2019, 168, 187-192.	0.8	3
62	Effects of Na+ channel isoforms and cellular environment on temperature tolerance of cardiac Na+ current in zebrafish (Danio rerio) and rainbow trout (Oncorhynchus mykiss). Journal of Experimental Biology, 2021, 224, .	1.7	3
63	Adrenergic prolongation of action potential duration in rainbow trout myocardium via inhibition of the delayed rectifier potassium current, IKr. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2022, 267, 111161.	1.8	3
64	Effects of diadenosine polyphosphates on inward rectifier potassium currents in rat cardiomyocytes. Moscow University Biological Sciences Bulletin, 2015, 70, 153-157.	0.7	2
65	Changes in Electrical Activity of Working Myocardium Under Condition of If Current Inhibition. Bulletin of Experimental Biology and Medicine, 2015, 158, 600-603.	0.8	2
66	Effects of a new antiarrhythmic drug SS-68 on electrical activity in working atrial and ventricular myocardium of mouse and their ionic mechanisms. Journal of Pharmacological Sciences, 2015, 128, 202-207.	2.5	2
67	Effect of Purine Co-Transmitters on Automatic Activity Caused by Norepinephrine in Myocardial Sleeves of Pulmonary Veins. Bulletin of Experimental Biology and Medicine, 2017, 162, 589-593.	0.8	2
68	The snake heart pacemaker is localized near the sinoatrial valve. Journal of Experimental Biology, 2021, 224, .	1.7	2
69	Bioelectrical activity in the heart of the lugworm Arenicola marina. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2010, 180, 645-651.	1.5	1
70	Nitric oxide modulates intensity of non-quantal acetylcholine release in myocardium of the right atrium of rat. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2012, 6, 288-293.	0.6	1
71	An Anti-inflammatory Cytokine Interleukin-13: Physiological Role in the Heart and Mechanoelectrical Feedback. , 2012, , 155-164.		1
72	Effect of Nitric Oxide on Mechanoelectric Feedback in Rat Right Atrium. Bulletin of Experimental Biology and Medicine, 2012, 153, 32-35.	0.8	1

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73	Regulation of NaV1.5 Sodium Channels by Small G-Proteins of the Rho Family in a Heterologous Expression System. Bulletin of Experimental Biology and Medicine, 2020, 169, 729-733.	0.8	1
74	Inward Rectifier Currents IK1 and IKACh in Working Myocardium of Japanese Quail (Coturnix japonica). Moscow University Biological Sciences Bulletin, 2021, 76, 65-70.	0.7	1
75	Adaptation to hypoxia prevents endothelial dysfunction of coronary and nonâ€coronary blood vessels during myocardial ischemia and reperfusion injury. FASEB Journal, 2013, 27, 1207.13.	0.5	1
76	Investigation of pacemaker shift in the rabbit sinoatrial node using the optical mapping technique. Biophysics (Russian Federation), 2010, 55, 442-446.	0.7	0
77	Ion Channels in Cardiac Fibroblasts: Link to Mechanically Gated Channels and their Regulation. , 2012, , 215-244.		0
78	Diadenosine Polyphosphates Suppress the Effects of Sympathetic Nerve Stimulation in Rabbit Heart Pacemaker. Bulletin of Experimental Biology and Medicine, 2017, 163, 586-589.	0.8	0
79	Effects of Ni2+ and Cu2+ on K+ and H+ currents in lily pollen protoplasts. Functional Plant Biology, 2017, 44, 1171.	2.1	0
80	The Cytoplasmic Domain of Voltage-dependent Potassium Channels of the Eag Family May Play a Role in the Regulation of Ion Transport. Microscopy and Microanalysis, 2020, 26, 1382-1383.	0.4	0
81	The role of M3 receptors in regulation of electrical activity deteriorates in the rat heart during ageing. Current Research in Physiology, 2022, 5, 1-7.	1.7	0