

Tamas Banyasz

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

48
papers

1,047
citations

18
h-index

31
g-index

53
ext. papers

1,295
ext. citations

5.3
avg, IF

3.9
L-index

#	Paper	IF	Citations
48	Exploring the Coordination of Cardiac Ion Channels With Action Potential Clamp Technique.. <i>Frontiers in Physiology</i> , 2022 , 13, 864002	4.6	
47	Mechanical Load Regulates Excitation-Ca Signaling-Contraction in Cardiomyocyte. <i>Circulation Research</i> , 2021 , 128, 772-774	15.7	5
46	Mexiletine-like cellular electrophysiological effects of GS967 in canine ventricular myocardium. <i>Scientific Reports</i> , 2021 , 11, 9565	4.9	4
45	Emergence of Mechano-Sensitive Contraction Autoregulation in Cardiomyocytes. <i>Life</i> , 2021 , 11,	3	1
44	Canine Myocytes Represent a Good Model for Human Ventricular Cells Regarding Their Electrophysiological Properties. <i>Pharmaceuticals</i> , 2021 , 14,	5.2	3
43	Ion current profiles in canine ventricular myocytes obtained by the "onion peeling" technique. <i>Journal of Molecular and Cellular Cardiology</i> , 2021 , 158, 153-162	5.8	6
42	Pharmacological Modulation and (Patho)Physiological Roles of TRPM4 Channel-Part 2: TRPM4 in Health and Disease.. <i>Pharmaceuticals</i> , 2021 , 15,	5.2	1
41	Late Sodium Current Inhibitors as Potential Antiarrhythmic Agents. <i>Frontiers in Pharmacology</i> , 2020 , 11, 413	5.6	17
40	Calcium Handling Defects and Cardiac Arrhythmia Syndromes. <i>Frontiers in Pharmacology</i> , 2020 , 11, 72	5.6	23
39	Balance Between Rapid Delayed Rectifier K Current and Late Na Current on Ventricular Repolarization: An Effective Antiarrhythmic Target?. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2020 , 13, e008130	6.4	10
38	Late sodium current in human, canine and guinea pig ventricular myocardium. <i>Journal of Molecular and Cellular Cardiology</i> , 2020 , 139, 14-23	5.8	9
37	Implication of frequency-dependent protocols in antiarrhythmic and proarrhythmic drug testing. <i>Progress in Biophysics and Molecular Biology</i> , 2020 , 157, 76-83	4.7	2
36	Mechano-electric and mechano-chemo-transduction in cardiomyocytes. <i>Journal of Physiology</i> , 2020 , 598, 1285-1305	3.9	21
35	Altered K current profiles underlie cardiac action potential shortening in hyperkalemia and β Adrenergic stimulation. <i>Canadian Journal of Physiology and Pharmacology</i> , 2019 , 97, 773-780	2.4	3
34	Enhanced Depolarization Drive in Failing Rabbit Ventricular Myocytes: Calcium-Dependent and β Adrenergic Effects on Late Sodium, L-Type Calcium, and Sodium-Calcium Exchange Currents. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2019 , 12, e007061	6.4	18
33	Complex electrophysiological remodeling in postinfarction ischemic heart failure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E3036-E3044	11.5	51
32	β Adrenergic regulation of late Na current during cardiac action potential is mediated by both PKA and CaMKII. <i>Journal of Molecular and Cellular Cardiology</i> , 2018 , 123, 168-179	5.8	33

31	Transient receptor potential melastatin 4 channel inhibitor 9-phenanthrol inhibits K but not Ca currents in canine ventricular myocytes. <i>Canadian Journal of Physiology and Pharmacology</i> , 2018 , 96, 1022-1029	2.4	9
30	Frequency-dependent effects of omecamtiv mecarbil on cell shortening of isolated canine ventricular cardiomyocytes. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2017 , 390, 1239-1246	3.4	24
29	Ca-activated Cl current is antiarrhythmic by reducing both spatial and temporal heterogeneity of cardiac repolarization. <i>Journal of Molecular and Cellular Cardiology</i> , 2017 , 109, 27-37	5.8	13
28	Potassium currents in the heart: functional roles in repolarization, arrhythmia and therapeutics. <i>Journal of Physiology</i> , 2017 , 595, 2229-2252	3.9	51
27	Recording of Ionic Currents Under Physiological Conditions: Action Potential-Clamp and Onion-Peeling Techniques 2017 , 31-48		6
26	Electrophysiological Determination of Submembrane Na(+) Concentration in Cardiac Myocytes. <i>Biophysical Journal</i> , 2016 , 111, 1304-1315	2.9	7
25	Sarcolemmal Ca(2+)-entry through L-type Ca(2+) channels controls the profile of Ca(2+)-activated Cl(-) current in canine ventricular myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2016 , 97, 125-39	5.8	16
24	Contribution of ion currents to beat-to-beat variability of action potential duration in canine ventricular myocytes. <i>Pflügers Archiv European Journal of Physiology</i> , 2015 , 467, 1431-1443	4.6	32
23	Optimizing Population Variability to Maximize Benefit. <i>PLoS ONE</i> , 2015 , 10, e0143475	3.7	
22	Cytosolic calcium changes affect the incidence of early afterdepolarizations in canine ventricular myocytes. <i>Canadian Journal of Physiology and Pharmacology</i> , 2015 , 93, 527-34	2.4	11
21	Oxidative shift in tissue redox potential increases beat-to-beat variability of action potential duration. <i>Canadian Journal of Physiology and Pharmacology</i> , 2015 , 93, 563-8	2.4	5
20	KN-93 inhibits IKr in mammalian cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2015 , 89, 173-6	5.8	18
19	Chemistry, physiology, and pharmacology of β -adrenergic mechanisms in the heart. Why are β -blocker antiarrhythmics superior?. <i>Current Pharmaceutical Design</i> , 2015 , 21, 1030-41	3.3	11
18	Asynchronous activation of calcium and potassium currents by isoproterenol in canine ventricular myocytes. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2014 , 387, 457-67	3.4	10
17	Beta-adrenergic stimulation reverses the I Kr-I Ks dominant pattern during cardiac action potential. <i>Pflügers Archiv European Journal of Physiology</i> , 2014 , 466, 2067-76	4.6	28
16	Mechanochemotransduction during cardiomyocyte contraction is mediated by localized nitric oxide signaling. <i>Science Signaling</i> , 2014 , 7, ra27	8.8	99
15	Dynamics of the late Na(+) current during cardiac action potential and its contribution to afterdepolarizations. <i>Journal of Molecular and Cellular Cardiology</i> , 2013 , 64, 59-68	5.8	70
14	Profile of L-type Ca(2+) current and Na(+)/Ca(2+) exchange current during cardiac action potential in ventricular myocytes. <i>Heart Rhythm</i> , 2012 , 9, 134-42	6.7	30

13	Tetrodotoxin blocks L-type Ca ²⁺ channels in canine ventricular cardiomyocytes. <i>Pflügers Archiv European Journal of Physiology</i> , 2012 , 464, 167-74	4.6	19
12	Sequential dissection of multiple ionic currents in single cardiac myocytes under action potential-clamp. <i>Journal of Molecular and Cellular Cardiology</i> , 2011 , 50, 578-81	5.8	48
11	Reverse rate-dependent changes are determined by baseline action potential duration in mammalian and human ventricular preparations. <i>Basic Research in Cardiology</i> , 2010 , 105, 315-23	11.8	40
10	Reverse rate dependency is an intrinsic property of canine cardiac preparations. <i>Cardiovascular Research</i> , 2009 , 84, 237-44	9.9	42
9	Apico-basal inhomogeneity in distribution of ion channels in canine and human ventricular myocardium. <i>Cardiovascular Research</i> , 2005 , 65, 851-60	9.9	124
8	Profile of I(Ks) during the action potential questions the therapeutic value of I(Ks) blockade. <i>Current Medicinal Chemistry</i> , 2004 , 11, 45-60	4.3	7
7	Divergent action potential morphologies reveal nonequilibrium properties of human cardiac Na channels. <i>Cardiovascular Research</i> , 2004 , 64, 477-87	9.9	11
6	Endocardial versus epicardial differences in L-type calcium current in canine ventricular myocytes studied by action potential voltage clamp. <i>Cardiovascular Research</i> , 2003 , 58, 66-75	9.9	63
5	Different effects of endothelin-1 on calcium and potassium currents in canine ventricular cells. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2001 , 363, 383-90	3.4	11
4	Effects of the antiarrhythmic agent EGIS-7229 (S 21407) on calcium and potassium currents in canine ventricular cardiomyocytes. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2001 , 363, 604-11	3.4	5
3	Biphasic effect of bimoctamol on calcium handling in mammalian ventricular myocardium. <i>British Journal of Pharmacology</i> , 2000 , 129, 1405-12	8.6	6
2	Evaluation of apoptosis and cell proliferation in experimentally induced renal cysts. <i>Urological Research</i> , 1998 , 26, 411-6		6
1	Electrophysiological effects of EGIS-7229, a new antiarrhythmic agent, in isolated mammalian and human cardiac tissues. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1997 , 355, 398-405	3.4	10