Tamas Banyasz

List of Publications by Citations

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	Apico-basal inhomogeneity in distribution of ion channels in canine and human ventricular myocardium. *Cardiovascular Research*, **2005**, 65, 851-60	9.9	124
47	Mechanochemotransduction during cardiomyocyte contraction is mediated by localized nitric oxide signaling. *Science Signaling*, **2014**, 7, ra27	8.8	99
46	Dynamics of the late Na(+) current during cardiac action potential and its contribution to afterdepolarizations. *Journal of Molecular and Cellular Cardiology*, **2013**, 64, 59-68	5.8	70
45	Endocardial versus epicardial differences in L-type calcium current in canine ventricular myocytes studied by action potential voltage clamp. *Cardiovascular Research*, **2003**, 58, 66-75	9.9	63
44	Complex electrophysiological remodeling in postinfarction ischemic heart failure. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E3036-E3044	11.5	51
43	Potassium currents in the heart: functional roles in repolarization, arrhythmia and therapeutics. *Journal of Physiology*, **2017**, 595, 2229-2252	3.9	51
42	Sequential dissection of multiple ionic currents in single cardiac myocytes under action potential-clamp. *Journal of Molecular and Cellular Cardiology*, **2011**, 50, 578-81	5.8	48
41	Reverse rate dependency is an intrinsic property of canine cardiac preparations. *Cardiovascular Research*, **2009**, 84, 237-44	9.9	42
40	Reverse rate-dependent changes are determined by baseline action potential duration in mammalian and human ventricular preparations. *Basic Research in Cardiology*, **2010**, 105, 315-23	11.8	40
39	Badrenergic regulation of late Na current during cardiac action potential is mediated by both PKA and CaMKII. *Journal of Molecular and Cellular Cardiology*, **2018**, 123, 168-179	5.8	33
38	Contribution of ion currents to beat-to-beat variability of action potential duration in canine ventricular myocytes. *Pflugers Archiv European Journal of Physiology*, **2015**, 467, 1431-1443	4.6	32
37	Profile of L-type Ca(2+) current and Na(+)/Ca(2+) exchange current during cardiac action potential in ventricular myocytes. *Heart Rhythm*, **2012**, 9, 134-42	6.7	30
36	Beta-adrenergic stimulation reverses the I Kr-I Ks dominant pattern during cardiac action potential. *Pflugers Archiv European Journal of Physiology*, **2014**, 466, 2067-76	4.6	28
35	Frequency-dependent effects of omecamtiv mecarbil on cell shortening of isolated canine ventricular cardiomyocytes. *Naunyn-Schmiedebergs Archives of Pharmacology*, **2017**, 390, 1239-1246	3.4	24
34	Calcium Handling Defects and Cardiac Arrhythmia Syndromes. *Frontiers in Pharmacology*, **2020**, 11, 72	5.6	23
33	Mechano-electric and mechano-chemo-transduction in cardiomyocytes. *Journal of Physiology*, **2020**, 598, 1285-1305	3.9	21
32	Tetrodotoxin blocks L-type Ca2+ channels in canine ventricular cardiomyocytes. *Pflugers Archiv European Journal of Physiology*, **2012**, 464, 167-74	4.6	19

31	Enhanced Depolarization Drive in Failing Rabbit Ventricular Myocytes: Calcium-Dependent and Adrenergic Effects on Late Sodium, L-Type Calcium, and Sodium-Calcium Exchange Currents. *Circulation: Arrhythmia and Electrophysiology*, **2019**, 12, e007061	6.4	18
30	KN-93 inhibits IKr in mammalian cardiomyocytes. *Journal of Molecular and Cellular Cardiology*, **2015**, 89, 173-6	5.8	18
29	Late Sodium Current Inhibitors as Potential Antiarrhythmic Agents. *Frontiers in Pharmacology*, **2020**, 11, 413	5.6	17
28	Sarcolemmal Ca(2+)-entry through L-type Ca(2+) channels controls the profile of Ca(2+)-activated Cl(-) current in canine ventricular myocytes. *Journal of Molecular and Cellular Cardiology*, **2016**, 97, 125-39	5.8	16
27	Ca-activated Cl current is antiarrhythmic by reducing both spatial and temporal heterogeneity of cardiac repolarization. *Journal of Molecular and Cellular Cardiology*, **2017**, 109, 27-37	5.8	13
26	Cytosolic calcium changes affect the incidence of early afterdepolarizations in canine ventricular myocytes. *Canadian Journal of Physiology and Pharmacology*, **2015**, 93, 527-34	2.4	11
25	Divergent action potential morphologies reveal nonequilibrium properties of human cardiac Na channels. *Cardiovascular Research*, **2004**, 64, 477-87	9.9	11
24	Different effects of endothelin-1 on calcium and potassium currents in canine ventricular cells. *Naunyn-Schmiedeberg's Archives of Pharmacology*, **2001**, 363, 383-90	3.4	11
23	Chemistry, physiology, and pharmacology of adrenergic mechanisms in the heart. Why are blocker antiarrhythmics superior?. *Current Pharmaceutical Design*, **2015**, 21, 1030-41	3.3	11
22	Balance Between Rapid Delayed Rectifier K Current and Late Na Current on Ventricular Repolarization: An Effective Antiarrhythmic Target?. *Circulation: Arrhythmia and Electrophysiology*, **2020**, 13, e008130	6.4	10
21	Asynchronous activation of calcium and potassium currents by isoproterenol in canine ventricular myocytes. *Naunyn-Schmiedeberg's Archives of Pharmacology*, **2014**, 387, 457-67	3.4	10
20	Electrophysiological effects of EGIS-7229, a new antiarrhythmic agent, in isolated mammalian and human cardiac tissues. *Naunyn-Schmiedeberg's Archives of Pharmacology*, **1997**, 355, 398-405	3.4	10
19	Late sodium current in human, canine and guinea pig ventricular myocardium. *Journal of Molecular and Cellular Cardiology*, **2020**, 139, 14-23	5.8	9
18	Transient receptor potential melastatin 4 channel inhibitor 9-phenanthrol inhibits K but not Ca currents in canine ventricular myocytes. *Canadian Journal of Physiology and Pharmacology*, **2018**, 96, 1022-1029	2.4	9
17	Electrophysiological Determination of Submembrane Na(+) Concentration in Cardiac Myocytes. *Biophysical Journal*, **2016**, 111, 1304-1315	2.9	7
16	Profile of I(Ks) during the action potential questions the therapeutic value of I(Ks) blockade. *Current Medicinal Chemistry*, **2004**, 11, 45-60	4.3	7
15	Evaluation of apoptosis and cell proliferation in experimentally induced renal cysts. *Urological Research*, **1998**, 26, 411-6		6
14	Biphasic effect of bimoclomol on calcium handling in mammalian ventricular myocardium. *British Journal of Pharmacology*, **2000**, 129, 1405-12	8.6	6

13	Recording of Ionic Currents Under Physiological Conditions: Action Potential-Clamp and Onion-Peeling Techniques **2017**, 31-48		6
12	Ion current profiles in canine ventricular myocytes obtained by the "onion peeling" technique. *Journal of Molecular and Cellular Cardiology*, **2021**, 158, 153-162	5.8	6
11	Oxidative shift in tissue redox potential increases beat-to-beat variability of action potential duration. *Canadian Journal of Physiology and Pharmacology*, **2015**, 93, 563-8	2.4	5
10	Effects of the antiarrhythmic agent EGIS-7229 (S 21407) on calcium and potassium currents in canine ventricular cardiomyocytes. *Naunyn-Schmiedebergs Archives of Pharmacology*, **2001**, 363, 604-11	3.4	5
9	Mechanical Load Regulates Excitation-Ca Signaling-Contraction in Cardiomyocyte. *Circulation Research*, **2021**, 128, 772-774	15.7	5
8	Mexiletine-like cellular electrophysiological effects of GS967 in canine ventricular myocardium. *Scientific Reports*, **2021**, 11, 9565	4.9	4
7	Altered K current profiles underlie cardiac action potential shortening in hyperkalemia and adrenergic stimulation. *Canadian Journal of Physiology and Pharmacology*, **2019**, 97, 773-780	2.4	3
6	Canine Myocytes Represent a Good Model for Human Ventricular Cells Regarding Their Electrophysiological Properties. *Pharmaceuticals*, **2021**, 14,	5.2	3
5	Implication of frequency-dependent protocols in antiarrhythmic and proarrhythmic drug testing. *Progress in Biophysics and Molecular Biology*, **2020**, 157, 76-83	4.7	2
4	Emergence of Mechano-Sensitive Contraction Autoregulation in Cardiomyocytes. *Life*, **2021**, 11,	3	1
3	Pharmacological Modulation and (Patho)Physiological Roles of TRPM4 Channel-Part 2: TRPM4 in Health and Disease.. *Pharmaceuticals*, **2021**, 15,	5.2	1
2	Optimizing Population Variability to Maximize Benefit. *PLoS ONE*, **2015**, 10, e0143475	3.7	
1	Exploring the Coordination of Cardiac Ion Channels With Action Potential Clamp Technique.. *Frontiers in Physiology*, **2022**, 13, 864002	4.6	