Balazs Horvath

List of Publications by Year in Descending Order

59 papers	1,857 citations	19 h-index	42 g-index
66 ext. papers	2,160 ext. citations	4.7 avg, IF	4.09 L-index

#	Paper	IF	Citations
59	Exploring the Coordination of Cardiac Ion Channels With Action Potential Clamp Technique.. *Frontiers in Physiology*, **2022**, 13, 864002	4.6	
58	FINCA syndrome, a novel interstitial lung and multiorgan disease.. *Paediatric Anaesthesia*, **2022**,	1.8	
57	Transthoracic utilization of the transesophageal echocardiography probe-a novel window to non-invasive hemodynamic monitoring for the pediatric anesthesiologist. *Canadian Journal of Anaesthesia*, **2021**, 68, 1090-1092	3	
56	Omecamtiv mecarbil evokes diastolic dysfunction and leads to periodic electromechanical alternans. *Basic Research in Cardiology*, **2021**, 116, 24	11.8	1
55	Blockade of sodium-calcium exchanger via ORM-10962 attenuates cardiac alternans. *Journal of Molecular and Cellular Cardiology*, **2021**, 153, 111-122	5.8	3
54	Mexiletine-like cellular electrophysiological effects of GS967 in canine ventricular myocardium. *Scientific Reports*, **2021**, 11, 9565	4.9	4
53	Canine Myocytes Represent a Good Model for Human Ventricular Cells Regarding Their Electrophysiological Properties. *Pharmaceuticals*, **2021**, 14,	5.2	3
52	Late sodium current and calcium homeostasis in arrhythmogenesis. *Channels*, **2021**, 15, 1-19	3	2
51	The development of L-type Ca current mediated alternans does not depend on the restitution slope in canine ventricular myocardium. *Scientific Reports*, **2021**, 11, 16652	4.9	1
50	The Evolution, Current Value, and Future of the American Society of Anesthesiologists Physical Status Classification System. *Anesthesiology*, **2021**, 135, 904-919	4.3	14
49	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
48	Pharmacological Modulation and (Patho)Physiological Roles of TRPM4 Channel-Part 2: TRPM4 in Health and Disease.. *Pharmaceuticals*, **2021**, 15,	5.2	1
47	Late Sodium Current Inhibitors as Potential Antiarrhythmic Agents. *Frontiers in Pharmacology*, **2020** , 11, 413	5.6	17
46	Emergency Endotracheal Intubation With a Rigid Stylet of an Infant With Severe Subglottic Stenosis. *Journal of Emergency Medicine*, **2020**, 58, e157-e160	1.5	2
45	Calcium Handling Defects and Cardiac Arrhythmia Syndromes. *Frontiers in Pharmacology*, **2020**, 11, 72	5.6	23
44	Late sodium current in human, canine and guinea pig ventricular myocardium. *Journal of Molecular and Cellular Cardiology*, **2020**, 139, 14-23	5.8	9
43	Analysis of Laryngoscopy Attempts in Infants: Comment. *Anesthesiology*, **2020**, 133, 237	4.3	1

42	Implication of frequency-dependent protocols in antiarrhythmic and proarrhythmic drug testing. *Progress in Biophysics and Molecular Biology*, **2020**, 157, 76-83	4.7	2
41	Erector spinae catheter for post-thoracotomy pain control in a premature neonate. *BMJ Case Reports*, **2020**, 13,	0.9	7
40	Vascular Air Emboli During the Perioperative Period. *Current Anesthesiology Reports*, **2020**, 10, 436-448	1	1
39	Issues in Pediatric Liver Transplantation. *Current Anesthesiology Reports*, **2018**, 8, 210-216	1	
38	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
37	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
36	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
35	The Effect of a Novel Highly Selective Inhibitor of the Sodium/Calcium Exchanger (NCX) on Cardiac Arrhythmias in In Vitro and In Vivo Experiments. *PLoS ONE*, **2016**, 11, e0166041	3.7	32
34	Concept of relative variability of cardiac action potential duration and its test under various experimental conditions. *General Physiology and Biophysics*, **2016**, 35, 55-62	2.1	5
33	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
32	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
31	A computational modelling approach combined with cellular electrophysiology data provides insights into the therapeutic benefit of targeting the late Na+ current. *Journal of Physiology*, **2015**, 593, 1429-42	3.9	17
30	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
29	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
28	9-Anthracene carboxylic acid is more suitable than DIDS for characterization of calcium-activated chloride current during canine ventricular action potential. *Naunyn-Schmiedebergs Archives of Pharmacology*, **2015**, 388, 87-100	3.4	8
27	Asynchronous activation of calcium and potassium currents by isoproterenol in canine ventricular myocytes. *Naunyn-Schmiedebergs Archives of Pharmacology*, **2014**, 387, 457-67	3.4	10
26	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
25	The late sodium current in heart failure: pathophysiology and clinical relevance. *ESC Heart Failure*, **2014**, 1, 26-40	3.7	23

24	Mechanochemotransduction during cardiomyocyte contraction is mediated by localized nitric oxide signaling. *Science Signaling*, **2014**, 7, ra27	8.8	99
23	Effects of tacrolimus on action potential configuration and transmembrane ion currents in canine ventricular cells. *Naunyn-Schmiedebergs Archives of Pharmacology*, **2013**, 386, 239-46	3.4	6
22	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
21	Effects of pioglitazone on cardiac ion currents and action potential morphology in canine ventricular myocytes. *European Journal of Pharmacology*, **2013**, 710, 10-9	5.3	5
20	Tetrodotoxin blockade on canine cardiac L-type Ca□+ channels depends on pH and redox potential. *Marine Drugs*, **2013**, 11, 2140-53	6	9
19	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
18	Tetrodotoxin blocks L-type Ca2+ channels in canine ventricular cardiomyocytes. *Pflugers Archiv European Journal of Physiology*, **2012**, 464, 167-74	4.6	19
17	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
16	Drug-induced changes in action potential duration are proportional to action potential duration in rat ventricular myocardium. *General Physiology and Biophysics*, **2010**, 29, 309-13	2.1	3
15	Effects of articaine and ropivacaine on calcium handling and contractility in canine ventricular myocardium. *European Journal of Anaesthesiology*, **2010**, 27, 153-61	2.3	5
14	Effects of ropinirole on action potential characteristics and the underlying ion currents in canine ventricular myocytes. *Naunyn-Schmiedebergs Archives of Pharmacology*, **2010**, 382, 213-20	3.4	8
13	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
12	Reverse rate dependency is an intrinsic property of canine cardiac preparations. *Cardiovascular Research*, **2009**, 84, 237-44	9.9	42
11	Contribution of I Kr and I K1 to ventricular repolarization in canine and human myocytes: is there any influence of action potential duration?. *Basic Research in Cardiology*, **2009**, 104, 33-41	11.8	33
10	Effects of ropivacaine on action potential configuration and ion currents in isolated canine ventricular cardiomyocytes. *Anesthesiology*, **2008**, 108, 693-702	4.3	12
9	Ghrelin controls hippocampal spine synapse density and memory performance. *Nature Neuroscience* , **2006**, 9, 381-8	25.5	645
8	Contribution of I Ks to ventricular repolarization in canine myocytes. *Pflugers Archiv European Journal of Physiology*, **2006**, 452, 698-706	4.6	14
7	Effects of SEA0400 and KB-R7943 on Na+/Ca2+ exchange current and L-type Ca2+ current in canine ventricular cardiomyocytes. *Naunyn-Schmiedebergs Archives of Pharmacology*, **2005**, 372, 63-70	3.4	83

6	Uncoupling protein-2 is critical for nigral dopamine cell survival in a mouse model of Parkinson's disease. *Journal of Neuroscience*, **2005**, 25, 184-91	6.6	159
5	Direct visual and circadian pathways target neuroendocrine cells in primates. *European Journal of Neuroscience*, **2004**, 20, 2767-76	3.5	17
4	Fasting activates the nonhuman primate hypocretin (orexin) system and its postsynaptic targets. *Endocrinology*, **2003**, 144, 3774-8	4.8	97
3	Uncoupling protein 2 (UCP2) lowers alcohol sensitivity and pain threshold. *Biochemical Pharmacology*, **2002**, 64, 369-74	6	28
2	Uncoupling protein 2 in primary pain and temperature afferents of the spinal cord. *Brain Research*, **2002**, 955, 260-3	3.7	8
1	Mitochondrial uncoupling protein 2 (UCP2) in the nonhuman primate brain and pituitary. *Endocrinology*, **2000**, 141, 4226-38	4.8	41