

Lothar A Blatter

List of Publications by Year in Descending Order

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Version: 2024-04-27

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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.

88
papers

5,401
citations

43
h-index

73
g-index

89
ext. papers

5,906
ext. citations

5.2
avg, IF

5.89
L-index

#	Paper	IF	Citations
88	L-type Ca channel recovery from inactivation in rabbit atrial myocytes.. <i>Physiological Reports</i> , 2022 , 10, e15222	2.6	1
87	Mechanism of carvedilol induced action potential and calcium alternans.. <i>Channels</i> , 2022 , 16, 97-112	3	0
86	Inositol 1,4,5-trisphosphate receptor - reactive oxygen signaling domain regulates excitation-contraction coupling in atrial myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2021 , 163, 147-155	5.8	1
85	Fatty acid oxidation and autophagy promote endoxifen resistance and counter the effect of AKT inhibition in ER-positive breast cancer cells. <i>Journal of Molecular Cell Biology</i> , 2021 , 13, 433-444	6.3	3
84	Triggered Ca Waves Induce Depolarization of Maximum Diastolic Potential and Action Potential Prolongation in Dog Atrial Myocytes. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2020 , 13, e008179	6.4	2
83	Effect of carvedilol on atrial excitation-contraction coupling, Ca release, and arrhythmogenicity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020 , 318, H1245-H1255	5.2	6
82	Mitochondrial calcium uniporter complex activation protects against calcium alternans in atrial myocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020 , 319, H873-H881	5.2	10
81	The role of fibroblast - Cardiomyocyte interaction for atrial dysfunction in HFpEF and hypertensive heart disease. <i>Journal of Molecular and Cellular Cardiology</i> , 2019 , 131, 53-65	5.8	10
80	Action potential shortening rescues atrial calcium alternans. <i>Journal of Physiology</i> , 2019 , 597, 723-740	3.9	9
79	p53 promotes AKT and SP1-dependent metabolism through the pentose phosphate pathway that inhibits apoptosis in response to Nutlin-3a. <i>Journal of Molecular Cell Biology</i> , 2018 , 10, 331-340	6.3	16
78	The effect of PKA-mediated phosphorylation of ryanodine receptor on SR Ca leak in ventricular myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2017 , 104, 9-16	5.8	26
77	Membrane potential determines calcium alternans through modulation of SR Ca load and L-type Ca current. <i>Journal of Molecular and Cellular Cardiology</i> , 2017 , 105, 49-58	5.8	23
76	A novel mechanism of tandem activation of ryanodine receptors by cytosolic and SR luminal Ca during excitation-contraction coupling in atrial myocytes. <i>Journal of Physiology</i> , 2017 , 595, 3835-3845	3.9	17
75	Tissue Specificity: SOCE: Implications for Ca Handling in Endothelial Cells. <i>Advances in Experimental Medicine and Biology</i> , 2017 , 993, 343-361	3.6	14
74	The intricacies of atrial calcium cycling during excitation-contraction coupling. <i>Journal of General Physiology</i> , 2017 , 149, 857-865	3.4	16
73	AP and Ca alternans: An inseparable couple. <i>Channels</i> , 2017 , 11, 368-369	3	
72	Alternans in atria: Mechanisms and clinical relevance. <i>Medicina (Lithuania)</i> , 2017 , 53, 139-149	3.1	14

71	Calcium-activated chloride current determines action potential morphology during calcium alternans in atrial myocytes. <i>Journal of Physiology</i> , 2016 , 594, 699-714	3.9	13
70	Ca(2+)-activated chloride channel activity during Ca(2+) alternans in ventricular myocytes. <i>Channels</i> , 2016 , 10, 507-17	3	5
69	The mechanisms of calcium cycling and action potential dynamics in cardiac alternans. <i>Circulation Research</i> , 2015 , 116, 846-56	15.7	54
68	Distinct mPTP activation mechanisms in ischaemia-reperfusion: contributions of Ca ²⁺ , ROS, pH, and inorganic polyphosphate. <i>Cardiovascular Research</i> , 2015 , 106, 237-48	9.9	109
67	Cytosolic and nuclear calcium signaling in atrial myocytes: IP ₃ -mediated calcium release and the role of mitochondria. <i>Channels</i> , 2015 , 9, 129-38	3	22
66	Harnessing the Power of Integrated Mitochondrial Biology and Physiology: A Special Report on the NHLBI Mitochondria in Heart Diseases Initiative. <i>Circulation Research</i> , 2015 , 117, 234-8	15.7	9
65	Inositol-1,4,5-trisphosphate induced Ca ²⁺ release and excitation-contraction coupling in atrial myocytes from normal and failing hearts. <i>Journal of Physiology</i> , 2015 , 593, 1459-77	3.9	52
64	p53-regulated autophagy is controlled by glycolysis and determines cell fate. <i>Oncotarget</i> , 2015 , 6, 23135-56	5.6	34
63	Variations in local calcium signaling in adjacent cardiac myocytes of the intact mouse heart detected with two-dimensional confocal microscopy. <i>Frontiers in Physiology</i> , 2014 , 5, 517	4.6	7
62	Urocortin 2 stimulates nitric oxide production in ventricular myocytes via Akt- and PKA-mediated phosphorylation of eNOS at serine 1177. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014 , 307, H689-700	5.2	20
61	Spatially defined InsP ₃ -mediated signaling in embryonic stem cell-derived cardiomyocytes. <i>PLoS ONE</i> , 2014 , 9, e83715	3.7	14
60	Calcium and IP ₃ dynamics in cardiac myocytes: experimental and computational perspectives and approaches. <i>Frontiers in Pharmacology</i> , 2014 , 5, 35	5.6	42
59	Cardiac alternans and intracellular calcium cycling. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2014 , 41, 524-32	3	56
58	Calcium signaling in cardiac mitochondria. <i>Journal of Molecular and Cellular Cardiology</i> , 2013 , 58, 125-33	5.8	70
57	Mitochondria-mediated cardioprotection by trimetazidine in rabbit heart failure. <i>Journal of Molecular and Cellular Cardiology</i> , 2013 , 59, 41-54	5.8	59
56	Effects of mitochondrial uncoupling on Ca(2+) signaling during excitation-contraction coupling in atrial myocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013 , 304, H983-93	5.2	27
55	β-adrenergic stimulation increases the intra-SR Ca termination threshold for spontaneous Ca waves in cardiac myocytes. <i>Channels</i> , 2013 , 7, 206-10	3	3
54	Ca(2+) release events in cardiac myocytes up close: insights from fast confocal imaging. <i>PLoS ONE</i> , 2013 , 8, e61525	3.7	10

53	Measuring mitochondrial function in intact cardiac myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2012 , 52, 48-61	5.8	81
52	Facilitation of cytosolic calcium wave propagation by local calcium uptake into the sarcoplasmic reticulum in cardiac myocytes. <i>Journal of Physiology</i> , 2012 , 590, 6037-45	3.9	27
51	A novel method for spatially complex diffraction-limited photoactivation and photobleaching in living cells. <i>Journal of Physiology</i> , 2012 , 590, 1093-100	3.9	7
50	β-Adrenergic stimulation increases the intra-sarcoplasmic reticulum Ca ²⁺ threshold for Ca ²⁺ wave generation. <i>Journal of Physiology</i> , 2012 , 590, 6093-108	3.9	10
49	Refractoriness of sarcoplasmic reticulum Ca ²⁺ release determines Ca ²⁺ alternans in atrial myocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012 , 302, H2310-20	5.2	66
48	Dantrolene prevents arrhythmogenic Ca ²⁺ release in heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012 , 302, H953-63	5.2	62
47	Regulation of cardiac alternans by β-adrenergic signaling pathways. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012 , 303, H1047-56	5.2	27
46	Dynamic calcium movement inside cardiac sarcoplasmic reticulum during release. <i>Circulation Research</i> , 2011 , 108, 847-56	15.7	74
45	A fluorescence-based assay to monitor transcriptional activity of NFAT in living cells. <i>Journal of Physiology</i> , 2010 , 588, 3211-6	3.9	8
44	Ca ²⁺ spark-dependent and -independent sarcoplasmic reticulum Ca ²⁺ leak in normal and failing rabbit ventricular myocytes. <i>Journal of Physiology</i> , 2010 , 588, 4743-57	3.9	133
43	The role of mitochondria for the regulation of cardiac alternans. <i>Frontiers in Physiology</i> , 2010 , 1, 141	4.6	34
42	Activation of NFATc1 is directly mediated by IP3 in adult cardiac myocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010 , 299, H1701-7	5.2	17
41	Changes in intra-luminal calcium during spontaneous calcium waves following sensitization of ryanodine receptor channels. <i>Channels</i> , 2010 , 4, 87-92	3	7
40	Alteration of sarcoplasmic reticulum Ca ²⁺ release termination by ryanodine receptor sensitization and in heart failure. <i>Journal of Physiology</i> , 2009 , 587, 5197-209	3.9	62
39	Mitochondrial Ca ²⁺ uptake: tortoise or hare?. <i>Journal of Molecular and Cellular Cardiology</i> , 2009 , 46, 767-74	5.8	80
38	Regulation of nuclear factor of activated T cells (NFAT) in vascular endothelial cells. <i>Journal of Molecular and Cellular Cardiology</i> , 2009 , 47, 400-10	5.8	41
37	The effect of oxidative stress on Ca ²⁺ release and capacitative Ca ²⁺ entry in vascular endothelial cells. <i>Cell Calcium</i> , 2008 , 43, 405-15	4	27
36	Partial inhibition of sarcoplasmic reticulum Ca release evokes long-lasting Ca release events in ventricular myocytes: role of luminal Ca in termination of Ca release. <i>Biophysical Journal</i> , 2008 , 94, 1867-79	5.8	51

35	Emerging roles of inositol 1,4,5-trisphosphate signaling in cardiac myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2008 , 45, 128-47	5.8	152
34	IP3 receptor-dependent Ca ²⁺ release modulates excitation-contraction coupling in rabbit ventricular myocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008 , 294, H596-604	5.2	92
33	Termination of cardiac Ca ²⁺ sparks: role of intra-SR [Ca ²⁺], release flux, and intra-SR Ca ²⁺ diffusion. <i>Circulation Research</i> , 2008 , 103, e105-15	15.7	125
32	IP3-dependent nuclear Ca ²⁺ signalling in the mammalian heart. <i>Journal of Physiology</i> , 2007 , 584, 601-11	3.9	84
31	Role of glycolytically generated ATP for CaMKII-mediated regulation of intracellular Ca ²⁺ signaling in bovine vascular endothelial cells. <i>American Journal of Physiology - Cell Physiology</i> , 2007 , 293, C106-18	5.4	20
30	SparkMaster: automated calcium spark analysis with ImageJ. <i>American Journal of Physiology - Cell Physiology</i> , 2007 , 293, C1073-81	5.4	218
29	Integration of rapid cytosolic Ca ²⁺ signals by mitochondria in cat ventricular myocytes. <i>American Journal of Physiology - Cell Physiology</i> , 2006 , 291, C840-50	5.4	56
28	Redox regulation of cardiac calcium channels and transporters. <i>Cardiovascular Research</i> , 2006 , 71, 310-21	3.9	414
27	Cardiac alternans do not rely on diastolic sarcoplasmic reticulum calcium content fluctuations. <i>Circulation Research</i> , 2006 , 99, 740-8	15.7	138
26	Biosensors to measure inositol 1,4,5-trisphosphate concentration in living cells with spatiotemporal resolution. <i>Journal of Biological Chemistry</i> , 2006 , 281, 608-16	5.4	84
25	Regional differences in spontaneous Ca ²⁺ spark activity and regulation in cat atrial myocytes. <i>Journal of Physiology</i> , 2006 , 572, 799-809	3.9	35
24	Modulation of sarcoplasmic reticulum Ca ²⁺ release by glycolysis in cat atrial myocytes. <i>Journal of Physiology</i> , 2005 , 564, 697-714	3.9	69
23	Modulation of mitochondrial Ca ²⁺ by nitric oxide in cultured bovine vascular endothelial cells. <i>American Journal of Physiology - Cell Physiology</i> , 2005 , 289, C836-45	5.4	42
22	Modulation of intracellular Ca ²⁺ release and capacitative Ca ²⁺ entry by CaMKII inhibitors in bovine vascular endothelial cells. <i>American Journal of Physiology - Cell Physiology</i> , 2005 , 289, C1426-36	5.4	29
21	Endothelin-1-induced arrhythmogenic Ca ²⁺ signaling is abolished in atrial myocytes of inositol-1,4,5-trisphosphate(IP3)-receptor type 2-deficient mice. <i>Circulation Research</i> , 2005 , 96, 1274-81	15.7	261
20	Inositol-1,4,5-trisphosphate-dependent Ca(2+) signalling in cat atrial excitation-contraction coupling and arrhythmias. <i>Journal of Physiology</i> , 2004 , 555, 607-15	3.9	156
19	Mitochondrial calcium uptake stimulates nitric oxide production in mitochondria of bovine vascular endothelial cells. <i>American Journal of Physiology - Cell Physiology</i> , 2004 , 286, C406-15	5.4	113
18	Local calcium gradients during excitation-contraction coupling and alternans in atrial myocytes. <i>Journal of Physiology</i> , 2003 , 546, 19-31	3.9	129

17	Regulation of junctional and non-junctional sarcoplasmic reticulum calcium release in excitation-contraction coupling in cat atrial myocytes. <i>Journal of Physiology</i> , 2003 , 546, 119-35	3.9	58
16	Pyruvate modulates cardiac sarcoplasmic reticulum Ca ²⁺ release in rats via mitochondria-dependent and -independent mechanisms. <i>Journal of Physiology</i> , 2003 , 550, 765-83	3.9	67
15	Nitric oxide inhibits capacitative Ca ²⁺ entry and enhances endoplasmic reticulum Ca ²⁺ uptake in bovine vascular endothelial cells. <i>Journal of Physiology</i> , 2002 , 539, 77-91	3.9	108
14	Subcellular Ca ²⁺ alternans represents a novel mechanism for the generation of arrhythmogenic Ca ²⁺ waves in cat atrial myocytes. <i>Journal of Physiology</i> , 2002 , 545, 65-79	3.9	90
13	Activation and propagation of Ca(2+) release during excitation-contraction coupling in atrial myocytes. <i>Biophysical Journal</i> , 2001 , 81, 2590-605	2.9	105
12	Intracellular Ca ²⁺ release contributes to automaticity in cat atrial pacemaker cells. <i>Journal of Physiology</i> , 2000 , 524 Pt 2, 415-22	3.9	240
11	Functional coupling between glycolysis and excitation-contraction coupling underlies alternans in cat heart cells. <i>Journal of Physiology</i> , 2000 , 524 Pt 3, 795-806	3.9	161
10	Capacitative Ca ²⁺ entry is graded with degree of intracellular Ca ²⁺ store depletion in bovine vascular endothelial cells. <i>Journal of Physiology</i> , 2000 , 523 Pt 3, 549-59	3.9	50
9	Mitochondrial calcium in heart cells: beat-to-beat oscillations or slow integration of cytosolic transients?. <i>Journal of Bioenergetics and Biomembranes</i> , 2000 , 32, 27-33	3.7	62
8	Intracellular sodium modulates mitochondrial calcium signaling in vascular endothelial cells. <i>Journal of Biological Chemistry</i> , 2000 , 275, 35402-7	5.4	30
7	Focal agonist stimulation results in spatially restricted Ca ²⁺ release and capacitative Ca ²⁺ entry in bovine vascular endothelial cells. <i>Journal of Physiology</i> , 1999 , 514 (Pt 1), 101-9	3.9	18
6	Fluctuations in mitochondrial membrane potential caused by repetitive gating of the permeability transition pore. <i>Biochemical Journal</i> , 1999 , 343, 311-317	3.8	206
5	Time-dependent modulation of capacitative Ca ²⁺ entry signals by plasma membrane Ca ²⁺ pump in endothelium. <i>American Journal of Physiology - Cell Physiology</i> , 1998 , 274, C1117-28	5.4	68
4	Capacitative calcium entry is inhibited in vascular endothelial cells by disruption of cytoskeletal microfilaments. <i>FEBS Letters</i> , 1997 , 403, 191-6	3.8	113
3	Elementary events of agonist-induced Ca ²⁺ release in vascular endothelial cells. <i>American Journal of Physiology - Cell Physiology</i> , 1997 , 273, C1775-82	5.4	56
2	Effects of FK-506 on contraction and Ca ²⁺ transients in rat cardiac myocytes. <i>Circulation Research</i> , 1996 , 79, 1110-21	15.7	79
1	Simultaneous measurements of Ca ²⁺ and nitric oxide in bradykinin-stimulated vascular endothelial cells. <i>Circulation Research</i> , 1995 , 76, 922-4	15.7	85