

Enrique Jaimovich

List of Publications by Year in descending order

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101
papers

4,681
citations

81900

39
h-index

106344

65
g-index

105
all docs

105
docs citations

105
times ranked

6176
citing authors

#	ARTICLE	IF	CITATIONS
1	On the molecular mechanism of excitation–transcription coupling in skeletal muscle. <i>Journal of General Physiology</i> , 2022, 154, .	1.9	1
2	Editorial: Calcium Homeostasis in Skeletal Muscle Function, Plasticity, and Disease. <i>Frontiers in Physiology</i> , 2021, 12, 671292.	2.8	4
3	High extracellular ATP levels released through pannexin-1 channels mediate inflammation and insulin resistance in skeletal muscle fibres of diet-induced obese mice. <i>Diabetologia</i> , 2021, 64, 1389-1401.	6.3	21
4	Pannexin-1 and CaV1.1 show reciprocal interaction during excitation–contraction and excitation–transcription coupling in skeletal muscle. <i>Journal of General Physiology</i> , 2021, 153, .	1.9	8
5	Changes in Gene Expression of the MCU Complex Are Induced by Electrical Stimulation in Adult Skeletal Muscle. <i>Frontiers in Physiology</i> , 2020, 11, 601313.	2.8	1
6	The Emerging Roles of Nicotinamide Adenine Dinucleotide Phosphate Oxidase 2 in Skeletal Muscle Redox Signaling and Metabolism. <i>Antioxidants and Redox Signaling</i> , 2019, 31, 1371-1410.	5.4	40
7	Skeletal muscle excitation-metabolism coupling. <i>Archives of Biochemistry and Biophysics</i> , 2019, 664, 89-94.	3.0	15
8	Herpud1 impacts insulin-dependent glucose uptake in skeletal muscle cells by controlling the Ca ²⁺ -calcineurin-Akt axis. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 1653-1662.	3.8	13
9	Evaluating the essential role of rONS in vivo in exercised human muscle. <i>Acta Physiologica</i> , 2018, 222, e12972.	3.8	1
10	Muscle function decline and mitochondria changes in middle age precede sarcopenia in mice. <i>Aging</i> , 2018, 10, 34-55.	3.1	71
11	Lactate administration activates the ERK1/2, mTORC1, and AMPK pathways differentially according to skeletal muscle type in mouse. <i>Physiological Reports</i> , 2018, 6, e13800.	1.7	46
12	IP3 receptor blockade restores autophagy and mitochondrial function in skeletal muscle fibers of dystrophic mice. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 3685-3695.	3.8	28
13	Mitochondrial Calcium Increase Induced by RyR1 and IP3R Channel Activation After Membrane Depolarization Regulates Skeletal Muscle Metabolism. <i>Frontiers in Physiology</i> , 2018, 9, 791.	2.8	51
14	Purinergic Signaling Controls Fibroblast Growth Factor–21 Expression in Skeletal Muscle through Akt/mTOR Pathway. <i>FASEB Journal</i> , 2018, 32, 533.10.	0.5	0
15	Extracellular ATP promotes protein synthesis in skeletal muscle through activation of the Akt–mTOR signaling pathway. <i>FASEB Journal</i> , 2018, 32, 856.29.	0.5	3
16	Interleukin-6 and neuregulin-1 as regulators of utrophin expression via the activation of NRG-1/ErbB signaling pathway in mdx cells. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 770-780.	3.8	6
17	Mitochondria in the Aging Muscles of Flies and Mice: New Perspectives for Old Characters. <i>Oxidative Medicine and Cellular Longevity</i> , 2016, 2016, 1-10.	4.0	16
18	NOX2 Inhibition Impairs Early Muscle Gene Expression Induced by a Single Exercise Bout. <i>Frontiers in Physiology</i> , 2016, 7, 282.	2.8	39

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19	Characterization of a multiprotein complex involved in excitation-transcription coupling of skeletal muscle. <i>Skeletal Muscle</i> , 2016, 6, 15.	4.2	31
20	HERPUD1 protects against oxidative stress-induced apoptosis through downregulation of the inositol 1,4,5-trisphosphate receptor. <i>Free Radical Biology and Medicine</i> , 2016, 90, 206-218.	2.9	31
21	Reactive oxygen species and calcium signals in skeletal muscle: A crosstalk involved in both normal signaling and disease. <i>Cell Calcium</i> , 2016, 60, 172-179.	2.4	52
22	ROS Production via P2Y1-PKC-NOX2 Is Triggered by Extracellular ATP after Electrical Stimulation of Skeletal Muscle Cells. <i>PLoS ONE</i> , 2015, 10, e0129882.	2.5	79
23	Localized nuclear and perinuclear Ca ²⁺ signals in intact mouse skeletal muscle fibers. <i>Frontiers in Physiology</i> , 2015, 6, 263.	2.8	6
24	The cholesterol-lowering agent methyl- β -cyclodextrin promotes glucose uptake via GLUT4 in adult muscle fibers and reduces insulin resistance in obese mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015, 308, E294-E305.	3.5	30
25	Altered ROS production, NF- κ B activation and interleukin-6 gene expression induced by electrical stimulation in dystrophic mdx skeletal muscle cells. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015, 1852, 1410-1419.	3.8	56
26	Exercise Sensitizes Skeletal Muscle to Extracellular ATP for IL-6 Expression in Mice. <i>International Journal of Sports Medicine</i> , 2014, 35, 273-279.	1.7	15
27	ATP Signaling in Skeletal Muscle. <i>Exercise and Sport Sciences Reviews</i> , 2014, 42, 110-116.	3.0	26
28	Insulin elicits a ROS-activated and an IP3-dependent Ca ²⁺ release; both impinge on GLUT4 translocation. <i>Journal of Cell Science</i> , 2014, 127, 1911-23.	2.0	54
29	New insights into IGF-1 signaling in the heart. <i>Trends in Endocrinology and Metabolism</i> , 2014, 25, 128-137.	7.1	190
30	An integrated mechanism of cardiomyocyte nuclear Ca ²⁺ signaling. <i>Journal of Molecular and Cellular Cardiology</i> , 2014, 75, 40-48.	1.9	15
31	Electrical stimulation induces IL-6 in skeletal muscle through extracellular ATP by activating Ca ²⁺ signals and an IL-6 autocrine loop. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014, 306, E869-E882.	3.5	50
32	Nifedipine Treatment Improves Muscle Function in Mdx Mice. <i>Biophysical Journal</i> , 2014, 106, 727a-728a.	0.5	0
33	Insulin-dependent mitochondrial Ca ²⁺ uptake in skeletal muscle is quickly disrupted in high-fat diet fed mice (572.3). <i>FASEB Journal</i> , 2014, 28, 572.3.	0.5	0
34	Electrical Stimuli Release ATP to Increase GLUT4 Translocation and Glucose Uptake via PI3K ¹ -Akt-AS160 in Skeletal Muscle Cells. <i>Diabetes</i> , 2013, 62, 1519-1526.	0.6	102
35	Endoplasmic Reticulum and the Unfolded Protein Response. <i>International Review of Cell and Molecular Biology</i> , 2013, 301, 215-290.	3.2	440
36	Local Control of Nuclear Calcium Signaling in Cardiac Myocytes by Perinuclear Microdomains of Sarcolemmal Insulin-Like Growth Factor 1 Receptors. <i>Circulation Research</i> , 2013, 112, 236-245.	4.5	73

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37	Cav1.1 Controls ATP Release in Adult Muscle Fibers. <i>Biophysical Journal</i> , 2013, 104, 204a.	0.5	0
38	Insulin Induces both H ₂ O ₂ Production and IP ₃ -Dependent Mitochondria Ca ²⁺ Uptake. H ₂ O ₂ Oxidizes RyR to Elicit Ca ²⁺ Release and GLUT4 Translocation in Skeletal Muscle Cells. <i>Biophysical Journal</i> , 2013, 104, 617a.	0.5	0
39	Atp-Induced Membrane Depolarization Relates to Skeletal Muscle Fibers Plasticity. <i>Biophysical Journal</i> , 2013, 104, 290a.	0.5	0
40	IGF1 induces IP ₃ -dependent calcium signal involved in the regulation of myostatin gene expression mediated by NFAT during myoblast differentiation. <i>Journal of Cellular Physiology</i> , 2013, 228, 1452-1463.	4.1	38
41	Cav1.1 controls frequency-dependent events regulating adult skeletal muscle plasticity. <i>Journal of Cell Science</i> , 2013, 126, 1189-1198.	2.0	55
42	Insulin-Dependent H ₂ O ₂ Production Is Higher in Muscle Fibers of Mice Fed with a High-Fat Diet. <i>International Journal of Molecular Sciences</i> , 2013, 14, 15740-15754.	4.1	37
43	Testosterone Signals through mTOR and Androgen Receptor to Induce Muscle Hypertrophy. <i>Medicine and Science in Sports and Exercise</i> , 2013, 45, 1712-1720.	0.4	108
44	Electrical Stimuli Are Anti-Apoptotic in Skeletal Muscle via Extracellular ATP. Alteration of This Signal in Mdx Mice Is a Likely Cause of Dystrophy. <i>PLoS ONE</i> , 2013, 8, e75340.	2.5	24
45	Nifedipine Treatment Reduces Resting Calcium Concentration, Oxidative and Apoptotic Gene Expression, and Improves Muscle Function in Dystrophic mdx Mice. <i>PLoS ONE</i> , 2013, 8, e81222.	2.5	49
46	Increased Resting Intracellular Calcium Modulates NF- κ B-dependent Inducible Nitric-oxide Synthase Gene Expression in Dystrophic mdx Skeletal Myotubes. <i>Journal of Biological Chemistry</i> , 2012, 287, 20876-20887.	3.4	79
47	Electrical Stimulation Induces Calcium-dependent Up-regulation of Neuregulin-1 α 1/2 in Dystrophic Skeletal Muscle Cell Lines. <i>Cellular Physiology and Biochemistry</i> , 2012, 29, 919-930.	1.6	19
48	Measurement of Calcium Release Due to Inositol Trisphosphate Receptors in Skeletal Muscle. <i>Methods in Molecular Biology</i> , 2012, 798, 383-393.	0.9	6
49	Testosterone induces skeletal muscle hypertrophy via Akt/mTOR/S6K1 pathway and the androgen receptor. <i>FASEB Journal</i> , 2012, 26, 1b676.	0.5	0
50	Novel mechanisms to ATP-dependent glucose uptake in skeletal muscle cells. <i>FASEB Journal</i> , 2012, 26, 1b715.	0.5	0
51	ATP Sensitivity and IP ₃ -Dependent Calcium Transients Which Regulate Gene Expression in Adult Muscle Fibers are Altered in Mdx Mice. <i>Biophysical Journal</i> , 2011, 100, 592a.	0.5	2
52	Anabolic Androgenic Steroids and Intracellular Calcium Signaling: A Mini Review on Mechanisms and Physiological Implications. <i>Mini-Reviews in Medicinal Chemistry</i> , 2011, 11, 390-398.	2.4	40
53	ATP release due to Thy-1 integrin binding induces P2X ₇ -mediated calcium entry required for focal adhesion formation. <i>Journal of Cell Science</i> , 2011, 124, 1581-1588.	2.0	33
54	Mitochondria fine-tune the slow Ca ²⁺ transients induced by electrical stimulation of skeletal myotubes. <i>Cell Calcium</i> , 2010, 48, 358-370.	2.4	42

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55	IP3-dependent, post-tetanic calcium transients induced by electrostimulation of adult skeletal muscle fibers. <i>Journal of General Physiology</i> , 2010, 136, 455-467.	1.9	69
56	Abnormal distribution of inositol 1,4,5-trisphosphate receptors in human muscle can be related to altered calcium signals and gene expression in Duchenne dystrophy-derived cells. <i>FASEB Journal</i> , 2010, 24, 3210-3221.	0.5	22
57	ATP Released by Electrical Stimuli Elicits Calcium Transients and Gene Expression in Skeletal Muscle. <i>Journal of Biological Chemistry</i> , 2009, 284, 34490-34505.	3.4	136
58	Membrane depolarization induces calcium-dependent upregulation of Hsp70 and Hmox-1 in skeletal muscle cells. <i>American Journal of Physiology - Cell Physiology</i> , 2009, 297, C581-C590.	4.6	23
59	NADPH Oxidase and Hydrogen Peroxide Mediate Insulin-induced Calcium Increase in Skeletal Muscle Cells. <i>Journal of Biological Chemistry</i> , 2009, 284, 2568-2575.	3.4	83
60	Both Membrane Depolarization And IL-6 Induce Calcium-Dependent Hsp70 Expression In Skeletal Muscle Cells. <i>Biophysical Journal</i> , 2009, 96, 121a-122a.	0.5	0
61	Sodium-dependent action potentials induced by brevetoxin-3 trigger both IP3 increase and intracellular Ca ²⁺ release in rat skeletal myotubes. <i>Cell Calcium</i> , 2008, 44, 289-297.	2.4	12
62	Changes in mitochondrial dynamics during ceramide-induced cardiomyocyte early apoptosis. <i>Cardiovascular Research</i> , 2008, 77, 387-397.	3.8	212
63	NFAT activation by membrane potential follows a calcium pathway distinct from other activity-related transcription factors in skeletal muscle cells. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 294, C715-C725.	4.6	32
64	NF- κ B activation by depolarization of skeletal muscle cells depends on ryanodine and IP3 receptor-mediated calcium signals. <i>American Journal of Physiology - Cell Physiology</i> , 2007, 292, C1960-C1970.	4.6	39
65	Differential gene expression in skeletal muscle cells after membrane depolarization. <i>Journal of Cellular Physiology</i> , 2007, 210, 819-830.	4.1	39
66	Myotube depolarization generates reactive oxygen species through NAD(P)H oxidase; ROS-elicited Ca ²⁺ stimulates ERK, CREB, early genes. <i>Journal of Cellular Physiology</i> , 2006, 209, 379-388.	4.1	134
67	Depolarization-induced slow Ca ²⁺ transients stimulate transcription of IL-6 gene in skeletal muscle cells. <i>American Journal of Physiology - Cell Physiology</i> , 2006, 290, C1428-C1436.	4.6	31
68	Membrane Electrical Activity Elicits Inositol 1,4,5-Trisphosphate-dependent Slow Ca ²⁺ Signals through a G _{i2/3} /Phosphatidylinositol 3-Kinase β Pathway in Skeletal Myotubes. <i>Journal of Biological Chemistry</i> , 2006, 281, 12143-12154.	3.4	34
69	Single-channel recording of inositol trisphosphate receptor in the isolated nucleus of a muscle cell line. <i>Biological Research</i> , 2006, 39, 541-53.	3.4	17
70	Nuclear inositol 1,4,5-trisphosphate receptors regulate local Ca ²⁺ transients and modulate cAMP response element binding protein phosphorylation. <i>Journal of Cell Science</i> , 2005, 118, 3131-3140.	2.0	66
71	Xestospongín B, a competitive inhibitor of IP3-mediated Ca ²⁺ signalling in cultured rat myotubes, isolated myonuclei, and neuroblastoma (NG108-15) cells. <i>FEBS Letters</i> , 2005, 579, 2051-2057.	2.8	71
72	Insulin-like Growth Factor-1 Induces an Inositol 1,4,5-Trisphosphate-dependent Increase in Nuclear and Cytosolic Calcium in Cultured Rat Cardiac Myocytes. <i>Journal of Biological Chemistry</i> , 2004, 279, 7554-7565.	3.4	73

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73	Depolarization of Skeletal Muscle Cells induces Phosphorylation of cAMP Response Element Binding Protein via Calcium and Protein Kinase C β . <i>Journal of Biological Chemistry</i> , 2004, 279, 39122-39131.	3.4	36
74	Slow Calcium Signals after Tetanic Electrical Stimulation in Skeletal Myotubes. <i>Biophysical Journal</i> , 2004, 86, 3042-3051.	0.5	44
75	Possible link of different slow calcium signals generated by membrane potential and hormones to differential gene expression in cultured muscle cells. <i>Biological Research</i> , 2004, 37, 625-33.	3.4	5
76	IP3 receptors and Ca ²⁺ signals in adult skeletal muscle satellite cells in situ. <i>Biological Research</i> , 2004, 37, 635-9.	3.4	11
77	Signal transduction and gene expression regulated by calcium release from internal stores in excitable cells. <i>Biological Research</i> , 2004, 37, 701-12.	3.4	49
78	Dihydropyridine Receptors as Voltage Sensors for a Depolarization-evoked, IP3R-mediated, Slow Calcium Signal in Skeletal Muscle Cells. <i>Journal of General Physiology</i> , 2003, 121, 3-16.	1.9	98
79	Testosterone Stimulates Intracellular Calcium Release and Mitogen-Activated Protein Kinases Via a G Protein-Coupled Receptor in Skeletal Muscle Cells. <i>Endocrinology</i> , 2003, 144, 3586-3597.	2.8	218
80	IP3Receptors and Associated Ca ²⁺ Signals Localize to Satellite Cells and to Components of the Neuromuscular Junction in Skeletal Muscle. <i>Journal of Neuroscience</i> , 2003, 23, 8185-8192.	3.6	40
81	Depolarization-induced slow calcium transients activate early genes in skeletal muscle cells. <i>American Journal of Physiology - Cell Physiology</i> , 2003, 284, C1438-C1447.	4.6	78
82	Pacific ciguatoxin-1b effect over Na ⁺ and K ⁺ currents, inositol 1,4,5-triphosphate content and intracellular Ca ²⁺ signals in cultured rat myotubes. <i>British Journal of Pharmacology</i> , 2002, 137, 1055-1062.	5.4	69
83	IP3 dependent Ca ²⁺ signals in muscle cells are involved in regulation of gene expression. <i>Biological Research</i> , 2002, 35, 195-202.	3.4	31
84	Calcium Transients in 1B5 Myotubes Lacking Ryanodine Receptors Are Related to Inositol Trisphosphate Receptors. <i>Journal of Biological Chemistry</i> , 2001, 276, 22868-22874.	3.4	49
85	IP3 receptor function and localization in myotubes: an unexplored Ca ²⁺ signaling pathway in skeletal muscle. <i>Journal of Cell Science</i> , 2001, 114, 3673-3683.	2.0	95
86	Aldosterone- and testosterone-mediated intracellular calcium response in skeletal muscle cell cultures. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2000, 279, E132-E139.	3.5	78
87	IP ₃ receptors, IP ₃ transients, and nucleus-associated Ca ²⁺ signals in cultured skeletal muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2000, 278, C998-C1010.	4.6	104
88	Differences in both inositol 1,4,5-trisphosphate mass and inositol 1,4,5-trisphosphate receptors between normal and dystrophic skeletal muscle cell lines. , 1998, 21, 902-909.		55
89	Functional Muscarinic Receptors in Cultured Skeletal Muscle. <i>Archives of Biochemistry and Biophysics</i> , 1996, 331, 41-47.	3.0	25
90	Ion channels in a skeletal muscle cell line from a Duchenne muscular dystrophy patient. <i>Muscle and Nerve</i> , 1994, 17, 1021-1028.	2.2	13

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91	Calcium Fluxes, Ion Currents and Dihydropyridine Receptors in a New Immortal Cell Line from Rat Heart Muscle. <i>Journal of Molecular and Cellular Cardiology</i> , 1993, 25, 829-845.	1.9	30
92	A human skeletal muscle cell line obtained from an adult donor. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1992, 1134, 247-255.	4.1	17
93	Chemical transmission at the triad: InsP3?. <i>Journal of Muscle Research and Cell Motility</i> , 1991, 12, 316-320.	2.0	18
94	Modulation of the activity of the transverse tubule Mg ²⁺ ATPase from frog skeletal muscle by a monoclonal antibody in vitro. <i>Molecular and Cellular Biochemistry</i> , 1991, 106, 99-107.	3.1	0
95	Calcium release modulated by inositol trisphosphate in ruptured fibers from frog skeletal muscle. <i>Pflugers Archiv European Journal of Physiology</i> , 1990, 416, 296-304.	2.8	22
96	Inositol trisphosphate and excitation-contraction coupling in skeletal muscle. <i>Journal of Bioenergetics and Biomembranes</i> , 1989, 21, 267-281.	2.3	40
97	Calcium modulation of phosphoinositide kinases in transverse tubule vesicles from frog skeletal muscle. <i>Archives of Biochemistry and Biophysics</i> , 1988, 262, 360-366.	3.0	33
98	Ion pathways in transverse tubules. Quantification of receptors in membranes isolated from frog and rabbit skeletal muscle. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1986, 855, 89-98.	2.6	47
99	Phosphorylation of phosphatidylinositol by transverse tubule vesicles and its possible role in excitation-contraction coupling. <i>FEBS Letters</i> , 1986, 202, 69-73.	2.8	55
100	Sodium pathway markers in normal and kindled frog brains. <i>Neuroscience Letters</i> , 1986, 65, 331-335.	2.1	6
101	Harmaline: A competitive inhibitor of Na Ion in the (Na ⁺ +K ⁺)-ATPase system. <i>Journal of Membrane Biology</i> , 1973, 13, 263-282.	2.1	76