Erick O HernÃ¡ndez-Ochoa

List of Publications by Year
in descending order

33 papers	684 citations	471509 17 h-index	580821 25 g-index
33 all docs	33 docs citations	33 times ranked	942 citing authors

#	Article	IF	Citations
1	Voltage sensor movements of CaV1.1 during an action potential in skeletal muscle fibers. Journal of General Physiology, 2022, 154, .	1.9	1
2	CaMKII oxidation is a critical performance/disease trade-off acquired at the dawn of vertebrate evolution. Nature Communications, 2021, 12, 3175.	12.8	19
3	Voltage sensor movements of CaV1.1 during an action potential in skeletal muscle fibers. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2026116118.	7.1	6
4	Mechanoactivation of NOX2-generated ROS elicits persistent TRPM8 Ca ²⁺ signals that are inhibited by oncogenic KRas. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 26008-26019.	7.1	19
5	Calcium signaling: breast cancerâ€™s approach to manipulation of cellular circuitry. Biophysical Reviews, 2020, 12, 1343-1359.	3.2	16
6	Disturbed intracellular calcium homeostasis in neural tube defects in diabetic embryopathy. Biochemical and Biophysical Research Communications, 2019, 514, 960-966.	2.1	4
7	Real-time scratch assay reveals mechanisms of early calcium signaling in breast cancer cells in response to wounding. Oncotarget, 2018, 9, 25008-25024.	1.8	11
8	LRP1 (Low-Density Lipoprotein Receptorâ€“Related Protein 1) Regulates Smooth Muscle Contractility by Modulating Ca ²⁺ Signaling and Expression of Cytoskeleton-Related Proteins. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, 2651-2664.	2.4	37
9	Voltage sensing mechanism in skeletal muscle excitation-contraction coupling: coming of age or midlife crisis?. Skeletal Muscle, 2018, 8, 22.	4.2	28
10	Loss of S100A1 expression leads to Ca2+ release potentiation in mutant mice with disrupted CaM and S100A1 binding to CaMBD2 of RyR1. Physiological Reports, 2018, 6, e13822.	1.7	3
11	Altered nuclear dynamics in MDX myofibers. Journal of Applied Physiology, 2017, 122, 470-481.	2.5	42
12	The Activation of Protein Kinase A by the Calcium-Binding Protein S100A1 Is Independent of Cyclic AMP. Biochemistry, 2017, 56, 2328-2337.	2.5	10
13	Impaired calcium signaling in muscle fibers from intercostal and foot skeletal muscle in a cigarette smoke-induced mouse model of COPD. Muscle and Nerve, 2017, 56, 282-291.	2.2	12
14	Acute Elevated Glucose Promotes Abnormal Action Potential-Induced Ca2+Transients in Cultured Skeletal Muscle Fibers. Journal of Diabetes Research, 2017, 2017, 1-12.	2.3	6
15	The Underlying Mechanisms of Diabetic Myopathy. Journal of Diabetes Research, 2017, 2017, 1-3.	2.3	14
16	In Vivo Assessment of Muscle Contractility in Animal Studies. Methods in Molecular Biology, 2016, 1460, 293-307.	0.9	21
17	Alternating bipolar field stimulation identifies muscle fibers with defective excitability but maintained local Ca2+ signals and contraction. Skeletal Muscle, 2015, 6, 6.	4.2	11
18	Diabetic Myopathy and Mechanisms of Disease. Biochemistry & Pharmacology: Open Access, 2015, 04, .	0.2	16

#	Article	IF	Citations
19	Disruption of action potential and calcium signaling properties in malformed myofibers from dystrophin-deficient mice. Physiological Reports, 2015, 3, e12366.	1.7	21
20	Î²1a490â€“508, a 19-Residue Peptide from C-Terminal Tail of Cav1.1 Î²1a Subunit, Potentiates Voltage-Dependent Calcium Release in Adult Skeletal Muscle Fibers. Biophysical Journal, 2014, 106, 535-547.	0.5	13
21	Elevated nuclear Foxo1 suppresses excitability of skeletal muscle fibers. American Journal of Physiology - Cell Physiology, 2013, 305, C643-C653.	4.6	8
22	Elevated extracellular glucose and uncontrolled type 1 diabetes enhance NFAT5 signaling and disrupt the transverse tubular network in mouse skeletal muscle. Experimental Biology and Medicine, 2012, 237, 1068-1083.	2.4	19
23	Voltage clamp methods for the study of membrane currents and SR Ca2+ release in adult skeletal muscle fibres. Progress in Biophysics and Molecular Biology, 2012, 108, 98-118.	2.9	21
24	S100A1 and calmodulin regulation of ryanodine receptor in striated muscle. Cell Calcium, 2011, 50, 323-331.	2.4	41
25	Modulation of sarcoplasmic reticulum Ca²⁺release in skeletal muscle expressing ryanodine receptor impaired in regulation by calmodulin and S100A1. American Journal of Physiology - Cell Physiology, 2011, 300, C998-C1012.	4.6	33
26	Culture methods and initial characterization of intercostal skeletal fibers isolated from the adult mouse. FASEB Journal, 2011, 25, .	0.5	0
27	DNA binding sites target nuclear NFATc1 to heterochromatin regions in adult skeletal muscle fibers. Histochemistry and Cell Biology, 2010, 134, 387-402.	1.7	22
28	S100A1 promotes action potential-initiated calcium release flux and force production in skeletal muscle. American Journal of Physiology - Cell Physiology, 2010, 299, C891-C902.	4.6	22
29	Augmentation of Ca_v1 channel current and action potential duration after uptake of S100A1 in sympathetic ganglion neurons. American Journal of Physiology - Cell Physiology, 2009, 297, C955-C970.	4.6	21
30	The Q_{Î³} component of intraâ€membrane charge movement is present in mammalian muscle fibres, but suppressed in the absence of S100A1. Journal of Physiology, 2009, 587, 4523-4541.	2.9	30
31	S100A1 Binds to the Calmodulin-binding Site of Ryanodine Receptor and Modulates Skeletal Muscle Excitation-Contraction Coupling. Journal of Biological Chemistry, 2008, 283, 5046-5057.	3.4	90
32	Ca2+ sparks and T tubule reorganization in dedifferentiating adult mouse skeletal muscle fibers. American Journal of Physiology - Cell Physiology, 2007, 292, C1156-C1166.	4.6	39
33	Ca2+ signal summation and NFATc1 nuclear translocation in sympathetic ganglion neurons during repetitive action potentials. Cell Calcium, 2007, 41, 559-571.	2.4	28