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	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
2	Altered nuclear dynamics in MDX myofibers. Journal of Applied Physiology, 2017, 122, 470-481.	2.5	42
3	S100A1 and calmodulin regulation of ryanodine receptor in striated muscle. Cell Calcium, 2011, 50, 323-331.	2.4	41
4	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
5	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
6	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
7	The <i>Q</i>_{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
8	Ca2+ signal summation and NFATc1 nuclear translocation in sympathetic ganglion neurons during repetitive action potentials. Cell Calcium, 2007, 41, 559-571.	2.4	28
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	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
11	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
12	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
13	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
14	Disruption of action potential and calcium signaling properties in malformed myofibers from dystrophin-deficient mice. Physiological Reports, 2015, 3, e12366.	1.7	21
15	In Vivo Assessment of Muscle Contractility in Animal Studies. Methods in Molecular Biology, 2016, 1460, 293-307.	0.9	21
16	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
17	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
18	CaMKII oxidation is a critical performance/disease trade-off acquired at the dawn of vertebrate evolution. Nature Communications, 2021, 12, 3175.	12.8	19

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19	Diabetic Myopathy and Mechanisms of Disease. Biochemistry & Pharmacology: Open Access, 2015, 04, .	0.2	16
20	Calcium signaling: breast cancerâ€™s approach to manipulation of cellular circuitry. Biophysical Reviews, 2020, 12, 1343-1359.	3.2	16
21	The Underlying Mechanisms of Diabetic Myopathy. Journal of Diabetes Research, 2017, 2017, 1-3.	2.3	14
22	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
23	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
24	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
25	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
26	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
27	Elevated nuclear Foxo1 suppresses excitability of skeletal muscle fibers. American Journal of Physiology - Cell Physiology, 2013, 305, C643-C653.	4.6	8
28	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
29	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
30	Disturbed intracellular calcium homeostasis in neural tube defects in diabetic embryopathy. Biochemical and Biophysical Research Communications, 2019, 514, 960-966.	2.1	4
31	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
32	Voltage sensor movements of CaV1.1 during an action potential in skeletal muscle fibers. Journal of General Physiology, 2022, 154, .	1.9	1
33	Culture methods and initial characterization of intercostal skeletal fibers isolated from the adult mouse. FASEB Journal, 2011, 25, .	0.5	0