Khaled Machaca

List of Publications by Year
in descending order

101	2,690	172457	206112
papers	citations	29 h-index	48 g-index

105	105	105	2793
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The QChip1 knowledgebase and microarray for precision medicine in Qatar. Npj Genomic Medicine, 2022, 7, 3.	3.8	4
2	The STIM1 Phosphorylation Saga. Cell Calcium, 2022, 103, 102551.	2.4	4
3	A longer isoform of Stim1 is a negative SOCE regulator but increases cAMPâ€modulated NFAT signaling. EMBO Reports, 2022, 23, e53135.	4.5	13
4	The carboxy terminal coiled-coil modulates Orai1 internalization during meiosis. Scientific Reports, 2021, 11, 2290.	3.3	2
5	Novel ORAI1 Mutation Disrupts Channel Trafficking Resulting in Combined Immunodeficiency. Journal of Clinical Immunology, 2021, 41, 1004-1015.	3.8	5
6	Store Operated Calcium Entry in Cell Migration and Cancer Metastasis. Cells, 2021, 10, 1246.	4.1	30
7	Native SOCE complexes: Small but mighty?. Cell Calcium, 2021, 97, 102421.	2.4	0
8	Phosphorylation of STIM1 at ERK/CDK sites is dispensable for cell migration and ER partitioning in mitosis. Cell Calcium, 2021, 100, 102496.	2.4	5
9	Multifunctional rhodamine B appended ROMP derived fluorescent probe detects Al3+ and selectively labels lysosomes in live cells. Scientific Reports, 2020, 10, 19519.	3.3	9
10	Expanding the store-operated Ca2+ entry microdomain through Ca2+ tunneling. Current Opinion in Physiology, 2020, 17, 158-162.	1.8	6
11	Ca2+ signaling and lipid transfer â€˜pas a deuxâ€™ at ER-PM contact sites orchestrate cell migration. Cell Calcium, 2020, 89, 102226.	2.4	6
12	L-type Ca ²⁺ channel blockers promote vascular remodeling through activation of STIM proteins. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 17369-17380.	7.1	37
13	Membrane progesterone receptor induces meiosis in Xenopus oocytes through endocytosis into signaling endosomes and interaction with APPL1 and Akt2. PLoS Biology, 2020, 18, e3000901.	5.6	14
14	miRNA-dependent regulation of STIM1 expression in breast cancer. Scientific Reports, 2019, 9, 13076.	3.3	10
15	Remodeling of ERâ€“plasma membrane contact sites but not STIM1 phosphorylation inhibits Ca2+influx in mitosis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 10392-10401.	7.1	26
16	Synthesis of TPEN variants to improve cancer cells selective killing capacity. Bioorganic Chemistry, 2019, 87, 366-372.	4.1	10
17	Cross-talk between N-terminal and C-terminal domains in stromal interaction molecule 2 (STIM2) determines enhanced STIM2 sensitivity. Journal of Biological Chemistry, 2019, 294, 6318-6332.	3.4	36
18	IP3 receptors and store-operated Ca2+ entry: a license to fill. Current Opinion in Cell Biology, 2019, 57, 1-7.	5.4	38

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19	VLDL receptor regulates membrane progesterone receptor trafficking and non-genomic signaling. Journal of Cell Science, 2018, 131, .	2.0	6
20	Transition metal dependent regulation of the signal transduction cascade driving oocyte meiosis. Journal of Cellular Physiology, 2018, 233, 3164-3175.	4.1	1
21	The CCT chaperonin is a novel regulator of Ca ²⁺ signaling through modulation of Orai1 trafficking. Science Advances, 2018, 4, eaau1935.	10.3	16
22	Ion Channel Function During Oocyte Maturation and Fertilization. Frontiers in Cell and Developmental Biology, 2018, 6, 63.	3.7	31
23	Spatially restricted subcellular Ca2+ signaling downstream of store-operated calcium entry encoded by a cortical tunneling mechanism. Scientific Reports, 2018, 8, 11214.	3.3	16
24	Endothelila based cardiac regeneration. , 2018, , .		0
25	Coculturing with endothelial cells promotes in vitro maturation and electrical coupling of human embryonic stem cellâ€“derived cardiomyocytes. Journal of Heart and Lung Transplantation, 2017, 36, 684-693.	0.6	29
26	Ca²⁺ tunnelling through the ER lumen as a mechanism for delivering Ca²⁺ entering via storeâ€operated Ca²⁺ channels to specific target sites. Journal of Physiology, 2017, 595, 2999-3014.	2.9	48
27	Storeâ€Operated Ca²⁺ Entry in Oocytes Modulate the Dynamics of IP₃â€Dependent Ca²⁺ Release From Oscillatory to Tonic. Journal of Cellular Physiology, 2017, 232, 1095-1103.	4.1	16
28	Effects of Hyperglycemia on Vascular Smooth Muscle Ca²⁺Signaling. BioMed Research International, 2017, 2017, 1-16.	1.9	15
29	Regulation and Role of Store-Operated Ca2+ Entry in Cellular Proliferation. , 2017, , 215-240.		5
30	Xenopus Oocyte As a Model System to Study Store-Operated Ca2+ Entry (SOCE). Frontiers in Cell and Developmental Biology, 2016, 4, 66.	3.7	7
31	Xenopus oocyte prophase I meiotic arrest is released independently from a decrease in cAMP levels or PKA activity. Development (Cambridge), 2016, 143, 1926-36.	2.5	18
32	Chk1 and DNA-PK mediate TPEN-induced DNA damage in a ROS dependent manner in human colon cancer cells. Cancer Biology and Therapy, 2016, 17, 1139-1148.	3.4	17
33	The Ca2+-activate Clâ^' channel Ano1 controls microvilli length and membrane surface area in the oocyte. Journal of Cell Science, 2016, 129, 2548-58.	2.0	14
34	A novel approach to the expression and purification of recombinant Xenopus Cdc25C. Protein Expression and Purification, 2016, 120, 148-152.	1.3	2
35	Study of the Effect of Calreticulin on Orai1 Function. , 2016, , .		0
36	The Role of C-Terminus Cytosolic Domain in the Mechanism of ORAI1 Trafficking and Internalization During Oocyte Maturation. , 2016, , .		0

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37	The Role of Flexible Loops in Folding, Trafficking and Activity of Equilibrative Nucleoside Transporters. PLoS ONE, 2015, 10, e0136779.	2.5	13
38	A STIM1-dependent â€˜trafficking trapâ€™ mechanism regulates Orai1 plasma membrane residence and Ca2+ influx levels. Journal of Cell Science, 2015, 128, 3143-54.	2.0	34
39	Abstract 2564: The anticancer molecule TPEN induces DNA damage in human colon cancer cells. , 2015, , .		1
40	Role for endocytosis of a constitutively active GPCR (GPR185) in releasing vertebrate oocyte meiotic arrest. Developmental Biology, 2014, 395, 355-366.	2.0	13
41	The Role of IP3 Receptor Channel Clustering in Ca2+ Wave Propagation During Oocyte Maturation. Progress in Molecular Biology and Translational Science, 2014, 123, 83-101.	1.7	9
42	Understanding fertilization through intracytoplasmic sperm injection (ICSI). Cell Calcium, 2014, 55, 24-37.	2.4	115
43	Mid-range Ca2+ signalling mediated by functional coupling between store-operated Ca2+ entry and IP3-dependent Ca2+ release. Nature Communications, 2014, 5, 3916.	12.8	52
44	Copper chelation selectively kills colon cancer cells through redox cycling and generation of reactive oxygen species. BMC Cancer, 2014, 14, 527.	2.6	79
45	To Be Or Not To Be: Mechanisms Of Regulation Of Stim1 By Its 3'utr In Breast Cancer. , 2014, , .		0
46	Identification Of Proteins Involved In Orai1 Trafficking By Mass Spectrometry-based Approach. , 2014, , .		0
47	Role Of Stim1 And Orai1 In Mammalian Oocyte Activation. , 2014, , .		0
48	Molecular Determinants Of The Store-operated Ca2+ Entry Channel Orai1 Trafficking In Mammalian Cells. , 2014, , .		0
49	Store Operated Calcium Entry Controls Intracellular Calcium Waves In Xenopus Oocytes. , 2014, , .		0
50	Optimizing The Expression And Purification Of Eukaryotic Cdc25c In E. Coli. , 2014, , .		0
51	Preface. Cell Calcium, 2013, 53, 1.	2.4	1
52	How to make a good egg!. Cell Calcium, 2013, 53, 41-54.	2.4	30
53	Inositol 1,4,5-Trisphosphate (IP3) Receptor Up-regulation in Hypertension Is Associated with Sensitization of Ca2+ Release and Vascular Smooth Muscle Contractility. Journal of Biological Chemistry, 2013, 288, 32941-32951.	3.4	44
54	Down-regulation of store-operated Ca2+ entry during mammalian meiosis is required for the egg-to-embryo transition. Journal of Cell Science, 2013, 126, 1672-81.	2.0	22

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55	Intramolecular shielding maintains STIM1 in an inactive conformation. Journal of Cell Science, 2013, 126, 2401-10.	2.0	43
56	The Xenopus TRPV6 homolog encodes a Mg 2+ â€permeant channel that is inhibited by interaction with TRPC1. Journal of Cellular Physiology, 2013, 228, 2386-2398.	4.1	14
57	Polymorphism in Endothelial Connexin40 Enhances Sensitivity to Intraluminal Pressure and Increases Arterial Stiffness. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, 962-970.	2.4	26
58	Phosphorylation of the rat Ins(1,4,5)P₃receptor at T930 within the coupling domain decreases its affinity to Ins(1,4,5)P₃. Channels, 2012, 6, 379-384.	2.8	6
59	STIM and Orai in cellular proliferation and division. Frontiers in Bioscience - Elite, 2012, E4, 331.	1.8	21
60	STIM and Orai in cellular proliferation and division. Frontiers in Bioscience - Elite, 2012, E4, 331-341.	1.8	27
61	"Ca2+ funneling": Functional coupling between SOCE, SERCA and IP3 receptors enhances Ca2+ signaling efficiency in activating the Ca2+-activated Cl channels as downstream effectors.. , 2012, , .		0
62	STIM1 phosphorylation in Xenopus oocytes during meiosis. , 2012, , .		0
63	Phenylephrineâ€induced current and vasoconstriction are blunted in mesenteric arteries of TRPC3 knockout mice. FASEB Journal, 2012, 26, 1115.12.	0.5	0
64	Erratum to â€œCa2+ Signalling and Gene Regulationâ€•[Cell Calcium 48 (2010) 243â€“250]. Cell Calcium, 2011, 49, 322.	2.4	0
65	Ca2+ signaling, genes and the cell cycle. Cell Calcium, 2011, 49, 323-330.	2.4	42
66	Role of the STIM1 C-terminal Domain in STIM1 Clustering. Journal of Biological Chemistry, 2011, 286, 8375-8384.	3.4	23
67	Endoplasmic Reticulum Remodeling Tunes IP3-Dependent Ca2+ Release Sensitivity. PLoS ONE, 2011, 6, e27928.	2.5	25
68	Ca2+ signaling, genes and the cell cycle. Cell Calcium, 2010, 48, 243-250.	2.4	53
69	Regulation of store-operated Ca2+ entry during the cell cycle. Journal of Cell Science, 2010, 123, 2155-2162.	2.0	28
70	Constitutive recycling of the store-operated Ca2+ channel Orai1 and its internalization during meiosis. Journal of Cell Biology, 2010, 191, 523-535.	5.2	108
71	Constitutive recycling of the store-operated Ca2+channel Orai1 and its internalization during meiosis. Journal of General Physiology, 2010, 136, i6-i6.	1.9	1
72	Potential role of inositol 1,4,5 - triphosphate receptors in the pathogenesis of hypertension. Qatar Foundation Annual Research Forum Proceedings, 2010, , BMP5.	0.0	0

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73	Multimerization of the transient receptor proteins TRPV6 and TRPC1. Qatar Foundation Annual Research Forum Proceedings, 2010, , BMP1.	0.0	0
74	Regulation of store-operated channels by endoplasmic reticulum chaperons. Qatar Foundation Annual Research Forum Proceedings, 2010, , BMPS11.	0.0	0
75	Orai1 internalization and STIM1 clustering inhibition modulate SOCE inactivation during meiosis. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 17401-17406.	7.1	110
76	Kinase-dependent Regulation of Inositol 1,4,5-Trisphosphate-dependent Ca2+ Release during Oocyte Maturation. Journal of Biological Chemistry, 2009, 284, 20184-20196.	3.4	31
77	Internalization of plasma membrane Ca2+-ATPase during Xenopus oocyte maturation. Developmental Biology, 2008, 324, 99-107.	2.0	26
78	Ca2+ Homeostasis Regulates Xenopus Oocyte Maturation1. Biology of Reproduction, 2008, 78, 726-735.	2.7	21
79	Vesicular traffic at the cell membrane regulates oocyte meiotic arrest. Development (Cambridge), 2007, 134, 3307-3315.	2.5	27
80	Zinc regulates the ability of Cdc25C to activate MPF/cdk1. Journal of Cellular Physiology, 2007, 213, 98-104.	4.1	34
81	Ca²⁺ signaling differentiation during oocyte maturation. Journal of Cellular Physiology, 2007, 213, 331-340.	4.1	79
82	Modeling Ca2+ signaling differentiation during oocyte maturation. Cell Calcium, 2007, 42, 556-564.	2.4	47
83	RNA interference is an antiviral defence mechanism in Caenorhabditis elegans. Nature, 2005, 436, 1044-1047.	27.8	298
84	Rabphilin Localizes with the Cell Actin Cytoskeleton and Stimulates Association of Granules with F-actin Cross-linked by Î±-Actinin. Journal of Biological Chemistry, 2005, 280, 34974-34984.	3.4	19
85	Calcium signaling differentiation during Xenopus oocyte maturation. Developmental Biology, 2005, 288, 514-525.	2.0	54
86	Ca2+cyt negatively regulates the initiation of oocyte maturation. Journal of Cell Biology, 2004, 165, 63-75.	5.2	49
87	Increased sensitivity and clustering of elementary Ca2+ release events during oocyte maturation. Developmental Biology, 2004, 275, 170-182.	2.0	51
88	Ca2+-Calmodulin-dependent Protein Kinase II Potentiates Store-operated Ca2+ Current. Journal of Biological Chemistry, 2003, 278, 33730-33737.	3.4	31
89	The endogenous calcium-activated Cl channel in Xenopus oocytes: A physiologically and biophysically rich model system. Current Topics in Membranes, 2002, 53, 3-39.	0.9	15
90	Endoplasmic reticulum Ca2+ signaling and calpains mediate renal cell death. Cell Death and Differentiation, 2002, 9, 734-741.	11.2	47

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91	Induction of maturation-promoting factor during Xenopus oocyte maturation uncouples Ca2+ store depletion from store-operated Ca2+ entry. Journal of Cell Biology, 2002, 156, 75-86.	5.2	83
92	Store-operated Calcium Entry Inactivates at the Germinal Vesicle Breakdown Stage of Xenopus Meiosis. Journal of Biological Chemistry, 2000, 275, 38710-38715.	3.4	71
93	Adenophostin A and Inositol 1,4,5-Trisphosphate Differentially Activate Clâ^' Currents in Xenopus Oocytes Because of Disparate Ca2+ Release Kinetics. Journal of Biological Chemistry, 1999, 274, 4824-4831.	3.4	24
94	Reversible Ca Gradients between the Subplasmalemma and Cytosol Differentially Activate Ca-dependent Cl Currents. Journal of General Physiology, 1999, 113, 249-266.	1.9	38
95	Asymmetrical Distribution of Ca-Activated Cl Channels in Xenopus Oocytes. Biophysical Journal, 1998, 74, 1286-1295.	0.5	49
96	Effects of Adenophostin-A and Inositol-1,4,5-trisphosphate on Cl^{â^'}Currents inXenopus laevisOocytes. Molecular Pharmacology, 1997, 51, 683-692.	2.3	38
97	The Caenorhabditis elegans spe-5 Gene Is Required for Morphogenesis of a Sperm-Specific Organelle and Is Associated With an Inherent Cold-Sensitive Phenotype. Genetics, 1997, 146, 567-581.	2.9	19
98	A Novel Chloride Channel Localizes toCaenorhabditis elegansSpermatids and Chloride Channel Blockers Induce Spermatid Differentiation. Developmental Biology, 1996, 176, 1-16.	2.0	70
99	Analysis of thymic lymphocyte apoptosis using in vitro techniques. Developmental and Comparative Immunology, 1993, 17, 263-276.	2.3	13
100	Characterization of apoptosis-like endonuclease activity in avian thymocytes. Biology of the Cell, 1992, 76, 15-22.	2.0	7
101	Lipid Signaling During Gamete Maturation. Frontiers in Cell and Developmental Biology, 0, 10, .	3.7	5