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	RNA interference is an antiviral defence mechanism in Caenorhabditis elegans. Nature, 2005, 436, 1044-1047.	27.8	298
2	Understanding fertilization through intracytoplasmic sperm injection (ICSI). Cell Calcium, 2014, 55, 24-37.	2.4	115
3	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
4	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
5	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
6	Ca²⁺ signaling differentiation during oocyte maturation. Journal of Cellular Physiology, 2007, 213, 331-340.	4.1	79
7	Copper chelation selectively kills colon cancer cells through redox cycling and generation of reactive oxygen species. BMC Cancer, 2014, 14, 527.	2.6	79
8	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
9	A Novel Chloride Channel Localizes toCaenorhabditis elegansSpermatids and Chloride Channel Blockers Induce Spermatid Differentiation. Developmental Biology, 1996, 176, 1-16.	2.0	70
10	Calcium signaling differentiation during Xenopus oocyte maturation. Developmental Biology, 2005, 288, 514-525.	2.0	54
11	Ca2+ signaling, genes and the cell cycle. Cell Calcium, 2010, 48, 243-250.	2.4	53
12	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
13	Increased sensitivity and clustering of elementary Ca2+ release events during oocyte maturation. Developmental Biology, 2004, 275, 170-182.	2.0	51
14	Asymmetrical Distribution of Ca-Activated Cl Channels in Xenopus Oocytes. Biophysical Journal, 1998, 74, 1286-1295.	0.5	49
15	Ca2+cyt negatively regulates the initiation of oocyte maturation. Journal of Cell Biology, 2004, 165, 63-75.	5.2	49
16	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
17	Endoplasmic reticulum Ca2+ signaling and calpains mediate renal cell death. Cell Death and Differentiation, 2002, 9, 734-741.	11.2	47
18	Modeling Ca2+ signaling differentiation during oocyte maturation. Cell Calcium, 2007, 42, 556-564.	2.4	47

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19	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
20	Intramolecular shielding maintains STIM1 in an inactive conformation. Journal of Cell Science, 2013, 126, 2401-10.	2.0	43
21	Ca2+ signaling, genes and the cell cycle. Cell Calcium, 2011, 49, 323-330.	2.4	42
22	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
23	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
24	IP3 receptors and store-operated Ca2+ entry: a license to fill. Current Opinion in Cell Biology, 2019, 57, 1-7.	5.4	38
25	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
26	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
27	Zinc regulates the ability of Cdc25C to activate MPF/cdk1. Journal of Cellular Physiology, 2007, 213, 98-104.	4.1	34
28	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
29	Ca2+-Calmodulin-dependent Protein Kinase II Potentiates Store-operated Ca2+ Current. Journal of Biological Chemistry, 2003, 278, 33730-33737.	3.4	31
30	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
31	Ion Channel Function During Oocyte Maturation and Fertilization. Frontiers in Cell and Developmental Biology, 2018, 6, 63.	3.7	31
32	How to make a good egg!. Cell Calcium, 2013, 53, 41-54.	2.4	30
33	Store Operated Calcium Entry in Cell Migration and Cancer Metastasis. Cells, 2021, 10, 1246.	4.1	30
34	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
35	Regulation of store-operated Ca2+ entry during the cell cycle. Journal of Cell Science, 2010, 123, 2155-2162.	2.0	28
36	Vesicular traffic at the cell membrane regulates oocyte meiotic arrest. Development (Cambridge), 2007, 134, 3307-3315.	2.5	27

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37	STIM and Orai in cellular proliferation and division. Frontiers in Bioscience - Elite, 2012, E4, 331-341.	1.8	27
38	Internalization of plasma membrane Ca2+-ATPase during Xenopus oocyte maturation. Developmental Biology, 2008, 324, 99-107.	2.0	26
39	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
40	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
41	Endoplasmic Reticulum Remodeling Tunes IP3-Dependent Ca2+ Release Sensitivity. PLoS ONE, 2011, 6, e27928.	2.5	25
42	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
43	Role of the STIM1 C-terminal Domain in STIM1 Clustering. Journal of Biological Chemistry, 2011, 286, 8375-8384.	3.4	23
44	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
45	Ca2+ Homeostasis Regulates Xenopus Oocyte Maturation1. Biology of Reproduction, 2008, 78, 726-735.	2.7	21
46	STIM and Orai in cellular proliferation and division. Frontiers in Bioscience - Elite, 2012, E4, 331.	1.8	21
47	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
48	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
49	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
50	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
51	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
52	The CCT chaperonin is a novel regulator of Ca ²⁺ signaling through modulation of Orai1 trafficking. Science Advances, 2018, 4, eaau1935.	10.3	16
53	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
54	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

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55	Effects of Hyperglycemia on Vascular Smooth Muscle Ca²⁺Signaling. BioMed Research International, 2017, 2017, 1-16.	1.9	15
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	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
58	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
59	Analysis of thymic lymphocyte apoptosis using in vitro techniques. Developmental and Comparative Immunology, 1993, 17, 263-276.	2.3	13
60	Role for endocytosis of a constitutively active GPCR (GPR185) in releasing vertebrate oocyte meiotic arrest. Developmental Biology, 2014, 395, 355-366.	2.0	13
61	The Role of Flexible Loops in Folding, Trafficking and Activity of Equilibrative Nucleoside Transporters. PLoS ONE, 2015, 10, e0136779.	2.5	13
62	A longer isoform of Stim1 is a negative SOCE regulator but increases cAMPâ€modulated NFAT signaling. EMBO Reports, 2022, 23, e53135.	4.5	13
63	miRNA-dependent regulation of STIM1 expression in breast cancer. Scientific Reports, 2019, 9, 13076.	3.3	10
64	Synthesis of TPEN variants to improve cancer cells selective killing capacity. Bioorganic Chemistry, 2019, 87, 366-372.	4.1	10
65	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
66	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
67	Characterization of apoptosis-like endonuclease activity in avian thymocytes. Biology of the Cell, 1992, 76, 15-22.	2.0	7
68	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
69	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
70	VLDL receptor regulates membrane progesterone receptor trafficking and non-genomic signaling. Journal of Cell Science, 2018, 131, .	2.0	6
71	Expanding the store-operated Ca2+ entry microdomain through Ca2+ tunneling. Current Opinion in Physiology, 2020, 17, 158-162.	1.8	6
72	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

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73	Novel ORAI1 Mutation Disrupts Channel Trafficking Resulting in Combined Immunodeficiency. Journal of Clinical Immunology, 2021, 41, 1004-1015.	3.8	5
74	Regulation and Role of Store-Operated Ca2+ Entry in Cellular Proliferation. , 2017, , 215-240.		5
75	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
76	Lipid Signaling During Gamete Maturation. Frontiers in Cell and Developmental Biology, 0, 10, .	3.7	5
77	The QChip1 knowledgebase and microarray for precision medicine in Qatar. Npj Genomic Medicine, 2022, 7, 3.	3.8	4
78	The STIM1 Phosphorylation Saga. Cell Calcium, 2022, 103, 102551.	2.4	4
79	A novel approach to the expression and purification of recombinant Xenopus Cdc25C. Protein Expression and Purification, 2016, 120, 148-152.	1.3	2
80	The carboxy terminal coiled-coil modulates Orai1 internalization during meiosis. Scientific Reports, 2021, 11, 2290.	3.3	2
81	Preface. Cell Calcium, 2013, 53, 1.	2.4	1
82	Transition metal dependent regulation of the signal transduction cascade driving oocyte meiosis. Journal of Cellular Physiology, 2018, 233, 3164-3175.	4.1	1
83	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
84	Abstract 2564: The anticancer molecule TPEN induces DNA damage in human colon cancer cells. , 2015, , .		1
85	Erratum to â€œCa2+ Signalling and Gene Regulationâ€•[Cell Calcium 48 (2010) 243â€“250]. Cell Calcium, 2011, 49, 322.	2.4	0
86	Native SOCE complexes: Small but mighty?. Cell Calcium, 2021, 97, 102421.	2.4	0
87	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
88	Multimerization of the transient receptor proteins TRPV6 and TRPC1. Qatar Foundation Annual Research Forum Proceedings, 2010, , BMP1.	0.0	0
89	Regulation of store-operated channels by endoplasmic reticulum chaperons. Qatar Foundation Annual Research Forum Proceedings, 2010, , BMPS11.	0.0	0
90	"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

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91	STIM1 phosphorylation in Xenopus oocytes during meiosis. , 2012, , .		0
92	Phenylephrineâ€induced current and vasoconstriction are blunted in mesenteric arteries of TRPC3 knockout mice. FASEB Journal, 2012, 26, 1115.12.	0.5	0
93	To Be Or Not To Be: Mechanisms Of Regulation Of Stim1 By Its 3'utr In Breast Cancer. , 2014, , .		0
94	Identification Of Proteins Involved In Orai1 Trafficking By Mass Spectrometry-based Approach. , 2014, , .		0
95	Role Of Stim1 And Orai1 In Mammalian Oocyte Activation. , 2014, , .		0
96	Molecular Determinants Of The Store-operated Ca2+ Entry Channel Orai1 Trafficking In Mammalian Cells. , 2014, , .		0
97	Store Operated Calcium Entry Controls Intracellular Calcium Waves In Xenopus Oocytes. , 2014, , .		0
98	Optimizing The Expression And Purification Of Eukaryotic Cdc25c In E. Coli. , 2014, , .		0
99	Study of the Effect of Calreticulin on Orai1 Function. , 2016, , .		0
100	The Role of C-Terminus Cytosolic Domain in the Mechanism of ORAI1 Trafficking and Internalization During Oocyte Maturation. , 2016, , .		0
101	Endothelila based cardiac regeneration. , 2018, , .		0