

Irene Frischauf

List of Publications by Year in descending order

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56
papers

2,620
citations

236925

25
h-index

302126

39
g-index

62
all docs

62
docs citations

62
times ranked

2011
citing authors

#	ARTICLE	IF	CITATIONS
1	Calcium Signals during SARS-CoV-2 Infection: Assessing the Potential of Emerging Therapies. <i>Cells</i> , 2022, 11, 253.	4.1	24
2	Science Communication Developing Scientific Literacy on Calcium: The Involvement of CRAC Currents in Human Health and Disease. <i>Cells</i> , 2022, 11, 1849.	4.1	3
3	Discovery of novel gating checkpoints in the Orai1 calcium channel by systematic analysis of constitutively active mutants of its paralogs and orthologs. <i>Cell Calcium</i> , 2022, 105, 102616.	2.4	2
4	CRAC channel opening is determined by a series of Orai1 gating checkpoints in the transmembrane and cytosolic regions. <i>Journal of Biological Chemistry</i> , 2021, 296, 100224.	3.4	20
5	More Than Just Simple Interaction between STIM and Orai Proteins: CRAC Channel Function Enabled by a Network of Interactions with Regulatory Proteins. <i>International Journal of Molecular Sciences</i> , 2021, 22, 471.	4.1	18
6	Orai1 Boosts SK3 Channel Activation. <i>Cancers</i> , 2021, 13, 6357.	3.7	6
7	Oxidative Stress-Induced STIM2 Cysteine Modifications Suppress Store-Operated Calcium Entry. <i>Cell Reports</i> , 2020, 33, 108292.	6.4	19
8	Orai channels: key players in Ca ²⁺ homeostasis. <i>Current Opinion in Physiology</i> , 2020, 17, 42-49.	1.8	4
9	Blockage of Store-Operated Ca ²⁺ Influx by Synta66 is Mediated by Direct Inhibition of the Ca ²⁺ Selective Orai1 Pore. <i>Cancers</i> , 2020, 12, 2876.	3.7	30
10	Luminal STIM1 Mutants that Cause Tubular Aggregate Myopathy Promote Autophagic Processes. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4410.	4.1	20
11	A novel STIM1-Orai1 gating interface essential for CRAC channel activation. <i>Cell Calcium</i> , 2019, 79, 57-67.	2.4	44
12	STIM1 phosphorylation at Y316 modulates its interaction with SARAF and the activation of SOCE and CRAC. <i>Journal of Cell Science</i> , 2019, 132, .	2.0	25
13	Sequential activation of STIM1 links Ca ²⁺ with luminal domain unfolding. <i>Science Signaling</i> , 2019, 12, .	3.6	32
14	STIM1 activation of Orai1. <i>Cell Calcium</i> , 2019, 77, 29-38.	2.4	75
15	Communication between N terminus and loop2 tunes Orai activation. <i>Journal of Biological Chemistry</i> , 2018, 293, 1271-1285.	3.4	44
16	Authentic CRAC channel activity requires STIM1 and the conserved portion of the Orai N terminus. <i>Journal of Biological Chemistry</i> , 2018, 293, 1259-1270.	3.4	40
17	Molecular Insights into the Pathophysiology of the Ca ²⁺ Sensing Protein STIM1. <i>Biophysical Journal</i> , 2018, 114, 212a.	0.5	0
18	Transmembrane helix connectivity in Orai1 controls two gates for calcium-dependent transcription. <i>Science Signaling</i> , 2017, 10, .	3.6	68

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19	Live-cell imaging of ER-PM contact architecture by a novel TIRFM approach reveals extension of junctions in response to store-operated Ca ²⁺ -entry. <i>Scientific Reports</i> , 2016, 6, 35656.	3.3	58
20	TRPC3-Calcineurin Microdomains Govern Orai1 Signaling in Mast Cells. <i>Biophysical Journal</i> , 2016, 110, 610a.	0.5	0
21	The STIM1: Orai Interaction. <i>Advances in Experimental Medicine and Biology</i> , 2016, 898, 25-46.	1.6	24
22	A calcium-accumulating region, CAR, in the channel Orai1 enhances Ca ²⁺ permeation and SOCE-induced gene transcription. <i>Science Signaling</i> , 2015, 8, ra131.	3.6	51
23	TRPC3 Modulates Association of Orai1 with Immunophilin FKBP12 and Orai-Mediated Ca ²⁺ -Transcription Coupling in Mast Cells. <i>Biophysical Journal</i> , 2014, 106, 755a.	0.5	0
24	Interplay of Orai1-Loop3 with Extracellular Ca ²⁺ Binding Sites in Loop1 Controls Crac Channel Activity. <i>Biophysical Journal</i> , 2014, 106, 316a.	0.5	0
25	Novel Trans-Membrane Mutation Switches Orai1 to a Constitutively Active and Ca ²⁺ Selective Channel. <i>Biophysical Journal</i> , 2014, 106, 316a.	0.5	0
26	TRPC 1 acts as a Negative Regulator for TRPV6 Mediated Ca ²⁺ Influx. <i>Biophysical Journal</i> , 2013, 104, 457a.	0.5	0
27	The polybasic lysine-rich domain of plasma membrane-resident STIM1 is essential for the modulation of store-operated divalent cation entry by extracellular calcium. <i>Cellular Signalling</i> , 2013, 25, 1328-1337.	3.6	18
28	Canonical Transient Receptor Potential (TRPC) 1 Acts as a Negative Regulator for Vanilloid TRPV6-mediated Ca ²⁺ Influx. <i>Journal of Biological Chemistry</i> , 2012, 287, 35612-35620.	3.4	44
29	TRPC3 Expression Modulates Store-Operated Currents in RBL-2H3 Cells. <i>Biophysical Journal</i> , 2012, 102, 534a.	0.5	0
30	Flexibility of the Third Extracellular Loop Affects Permeation of Orai1 Channels. <i>Biophysical Journal</i> , 2012, 102, 314a.	0.5	0
31	Cooperativeness of Orai Cytosolic Domains Tunes Subtype-Specific Gating. <i>Biophysical Journal</i> , 2011, 100, 181a-182a.	0.5	0
32	STIM1 couples to ORAI1 via an intramolecular transition into an extended conformation. <i>EMBO Journal</i> , 2011, 30, 1678-1689.	7.8	204
33	Cooperativeness of Orai Cytosolic Domains Tunes Subtype-specific Gating. <i>Journal of Biological Chemistry</i> , 2011, 286, 8577-8584.	3.4	51
34	Molecular Determinants within N Terminus of Orai3 Protein That Control Channel Activation and Gating. <i>Journal of Biological Chemistry</i> , 2011, 286, 31565-31575.	3.4	44
35	Resting State Orai1 Diffuses as Homotetramer in the Plasma Membrane of Live Mammalian Cells*. <i>Journal of Biological Chemistry</i> , 2010, 285, 41135-41142.	3.4	92
36	Conformational Rearrangement within STIM1 C-terminus Crucial for Coupling to Orai1. <i>Biophysical Journal</i> , 2010, 98, 676a-677a.	0.5	0

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37	UV Laser Patterning for Biocompatibility Control of Polystyrene. <i>Biophysical Journal</i> , 2010, 98, 605a.	0.5	0
38	The Second Loop of Orai Channels Fine-Tunes Ca ²⁺ Feedback Regulation. <i>Biophysical Journal</i> , 2010, 98, 676a.	0.5	0
39	A Cytosolic Homomerization and a Modulatory Domain within STIM1 C Terminus Determine Coupling to ORAI1 Channels. <i>Journal of Biological Chemistry</i> , 2009, 284, 8421-8426.	3.4	289
40	Increased Hydrophobicity at the N Terminus/Membrane Interface Impairs Gating of the Severe Combined Immunodeficiency-related ORAI1 Mutant. <i>Journal of Biological Chemistry</i> , 2009, 284, 15903-15915.	3.4	72
41	Molecular Determinants of the Coupling between STIM1 and Orai Channels. <i>Journal of Biological Chemistry</i> , 2009, 284, 21696-21706.	3.4	140
42	Mechanistic view on domains mediating STIM1-Orai coupling. <i>Immunological Reviews</i> , 2009, 231, 99-112.	6.0	97
43	Interference In Coiled-coil Mediated Coupling Between Stim1 And Orai Channels. <i>Biophysical Journal</i> , 2009, 96, 115a-116a.	0.5	0
44	An Orai1 Activating Minimal Fragment Of Stim1. <i>Biophysical Journal</i> , 2009, 96, 116a.	0.5	0
45	Increased Hydrophobicity At The N-terminus/membrane Interface Impairs Gating Of The Scid-related Orai1 Mutant. <i>Biophysical Journal</i> , 2009, 96, 116a.	0.5	0
46	Regulatory Elements of TRPA1 Function. <i>Biophysical Journal</i> , 2009, 96, 268a.	0.5	0
47	Plasticity in Ca ²⁺ selectivity of Orai1/Orai3 heteromeric channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 19623-19628.	7.1	61
48	Heteromeric channel assembly of Orai1 and Orai3 exhibits altered Ca ²⁺ selectivity. <i>Biophysical Journal</i> , 2009, 96, 559a-560a.	0.5	0
49	Proliferation of aligned mammalian cells on laser-nanostructured polystyrene. <i>Biomaterials</i> , 2008, 29, 1796-1806.	11.4	219
50	The first ankyrin-like repeat is the minimum indispensable key structure for functional assembly of homo- and heteromeric TRPC4/TRPC5 channels. <i>Cell Calcium</i> , 2008, 43, 260-269.	2.4	36
51	Electroporation chip for adherent cells on photochemically modified polymer surfaces. <i>Applied Physics Letters</i> , 2008, 92, 013901.	3.3	23
52	2-Aminoethoxydiphenyl Borate Alters Selectivity of Orai3 Channels by Increasing Their Pore Size. <i>Journal of Biological Chemistry</i> , 2008, 283, 20261-20267.	3.4	131
53	Dynamic Coupling of the Putative Coiled-coil Domain of ORAI1 with STIM1 Mediates ORAI1 Channel Activation. <i>Journal of Biological Chemistry</i> , 2008, 283, 8014-8022.	3.4	366
54	The STIM/Orai coupling machinery. <i>Channels</i> , 2008, 2, 261-268.	2.8	92

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55	UV surface modification of a new nanocomposite polymer to improve cytocompatibility. Journal of Biomaterials Science, Polymer Edition, 2007, 18, 453-468.	3.5	30
56	Photochemical surface modification of polymers for biomedical applications. , 2006, , .		1