

# Martin Muik

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

2,196  
citations

331670

21  
h-index

610901

24  
g-index

24  
all docs

24  
docs citations

24  
times ranked

1322  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	STIM1 couples to ORAI1 via an intramolecular transition into an extended conformation. <i>EMBO Journal</i> , 2011, 30, 1678-1689.	7.8	204
4	STIM1/Orai1 coiled-coil interplay in the regulation of store-operated calcium entry. <i>Nature Communications</i> , 2013, 4, 2963.	12.8	179
5	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
6	A Ca <sup>2+</sup> Release-activated Ca <sup>2+</sup> (CRAC) Modulatory Domain (CMD) within STIM1 Mediates Fast Ca <sup>2+</sup> -dependent Inactivation of ORAI1 Channels. <i>Journal of Biological Chemistry</i> , 2009, 284, 24933-24938.	3.4	115
7	A Coiled-coil Clamp Controls Both Conformation and Clustering of Stromal Interaction Molecule 1 (STIM1). <i>Journal of Biological Chemistry</i> , 2014, 289, 33231-33244.	3.4	105
8	The Extended Transmembrane Orai1 N-terminal (ETON) Region Combines Binding Interface and Gate for Orai1 Activation by STIM1. <i>Journal of Biological Chemistry</i> , 2013, 288, 29025-29034.	3.4	101
9	Cholesterol modulates Orai1 channel function. <i>Science Signaling</i> , 2016, 9, ra10.	3.6	80
10	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
11	Transmembrane helix connectivity in Orai1 controls two gates for calcium-dependent transcription. <i>Science Signaling</i> , 2017, 10, .	3.6	68
12	Ca <sup>2+</sup> release-activated Ca <sup>2+</sup> (CRAC) current, structure, and function. <i>Cellular and Molecular Life Sciences</i> , 2012, 69, 4163-4176.	5.4	53
13	Missense mutation in immunodeficient patients shows the multifunctional roles of coiled-coil domain 3 (CC3) in STIM1 activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6206-6211.	7.1	52
14	Cooperativeness of Orai Cytosolic Domains Tunes Subtype-specific Gating. <i>Journal of Biological Chemistry</i> , 2011, 286, 8577-8584.	3.4	51
15	A calcium-accumulating region, CAR, in the channel Orai1 enhances Ca <sup>2+</sup> permeation and SOCE-induced gene transcription. <i>Science Signaling</i> , 2015, 8, ra131.	3.6	51
16	A dual mechanism promotes switching of the Stormorken STIM1 R304W mutant into the activated state. <i>Nature Communications</i> , 2018, 9, 825.	12.8	45
17	Canonical Transient Receptor Potential (TRPC) 1 Acts as a Negative Regulator for Vanilloid TRPV6-mediated Ca <sup>2+</sup> Influx. <i>Journal of Biological Chemistry</i> , 2012, 287, 35612-35620.	3.4	44
18	Communication between N terminus and loop2 tunes Orai activation. <i>Journal of Biological Chemistry</i> , 2018, 293, 1271-1285.	3.4	44

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19	A novel STIM1-Orai1 gating interface essential for CRAC channel activation. <i>Cell Calcium</i> , 2019, 79, 57-67.	2.4	44
20	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
21	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
22	The STIM-Orai Pathway: The Interactions Between STIM and Orai. <i>Advances in Experimental Medicine and Biology</i> , 2017, 993, 59-81.	1.6	17
23	Defects in the STIM1 SOAR <sup>1±2</sup> domain affect multiple steps in the CRAC channel activation cascade. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 6645-6667.	5.4	12
24	Investigations on the distribution of polymer additives in polypropylene using confocal fluorescence microscopy. <i>International Journal of Polymer Analysis and Characterization</i> , 2017, 22, 692-698.	1.9	8