

Donald L Gill

List of Publications by Year in descending order

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34
papers

2,398
citations

257450

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395702

33
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docs citations

35
times ranked

2515
citing authors

#	ARTICLE	IF	CITATIONS
1	Omnitemporal choreographies of all five STIM/Orai and IP3Rs underlie the complexity of mammalian Ca ²⁺ signaling. <i>Cell Reports</i> , 2021, 34, 108760.	6.4	57
2	Remote light-activation of native Orai channels. <i>Cell Research</i> , 2021, 31, 727-729.	12.0	0
3	Orai channel C-terminal peptides are key modulators of STIM-Orai coupling and calcium signal generation. <i>Cell Reports</i> , 2021, 35, 109322.	6.4	12
4	Resolving macrophage polarization through distinct Ca ²⁺ entry channel that maintains intracellular signaling and mitochondrial bioenergetics. <i>IScience</i> , 2021, 24, 103339.	4.1	15
5	The intricate coupling between STIM proteins and Orai channels. <i>Current Opinion in Physiology</i> , 2020, 17, 106-114.	1.8	10
6	Distinct pharmacological profiles of ORAI1, ORAI2, and ORAI3 channels. <i>Cell Calcium</i> , 2020, 91, 102281.	2.4	71
7	The native ORAI channel trio underlies the diversity of Ca ²⁺ signaling events. <i>Nature Communications</i> , 2020, 11, 2444.	12.8	90
8	L-type Ca ²⁺ channel blockers promote vascular remodeling through activation of STIM proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 17369-17380.	7.1	37
9	Type 3 Inositol 1,4,5-Trisphosphate Receptor is a Crucial Regulator of Calcium Dynamics Mediated by Endoplasmic Reticulum in HEK Cells. <i>Cells</i> , 2020, 9, 275.	4.1	15
10	Dichotomous role of the human mitochondrial Na ⁺ /Ca ²⁺ /Li ⁺ exchanger NCLX in colorectal cancer growth and metastasis. <i>ELife</i> , 2020, 9, .	6.0	39
11	The remote allosteric control of Orai channel gating. <i>PLoS Biology</i> , 2019, 17, e3000413.	5.6	25
12	A calcium/cAMP signaling loop at the ORAI1 mouth drives channel inactivation to shape NFAT induction. <i>Nature Communications</i> , 2019, 10, 1971.	12.8	73
13	STIM1 is a precise thermo-sensor in skin. <i>Cell Research</i> , 2019, 29, 259-260.	12.0	4
14	Cross-talk between N-terminal and C-terminal domains in stromal interaction molecule 2 (STIM2) determines enhanced STIM2 sensitivity. <i>Journal of Biological Chemistry</i> , 2019, 294, 6318-6332.	3.4	36
15	Cross-linking of Orai1 channels by STIM proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E3398-E3407.	7.1	60
16	Identification of molecular determinants that govern distinct STIM2 activation dynamics. <i>PLoS Biology</i> , 2018, 16, e2006898.	5.6	29
17	Calcium store refilling and STIM activation in STIM- and Orai-deficient cell lines. <i>Pflügers Archiv European Journal of Physiology</i> , 2018, 470, 1555-1567.	2.8	39
18	Pore properties of Orai1 calcium channel dimers and their activation by the STIM1 ER calcium sensor. <i>Journal of Biological Chemistry</i> , 2018, 293, 12962-12974.	3.4	18

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19	The STIM-Orai coupling interface and gating of the Orai1 channel. <i>Cell Calcium</i> , 2017, 63, 8-13.	2.4	62
20	The STIM-Orai Pathway: Conformational Coupling Between STIM and Orai in the Activation of Store-Operated Ca ²⁺ Entry. <i>Advances in Experimental Medicine and Biology</i> , 2017, 993, 83-98.	1.6	29
21	The STIM1-binding site nexus remotely controls Orai1 channel gating. <i>Nature Communications</i> , 2016, 7, 13725.	12.8	77
22	The Orai1 Store-operated Calcium Channel Functions as a Hexamer. <i>Journal of Biological Chemistry</i> , 2016, 291, 25764-25775.	3.4	97
23	Ca ²⁺ signals regulate mitochondrial metabolism by stimulating CREB-mediated expression of the mitochondrial Ca ²⁺ uniporter gene <i>MCU</i> . <i>Science Signaling</i> , 2015, 8, ra23.	3.6	102
24	Novel Protein Kinase C-Mediated Control of Orai1 Function in Invasive Melanoma. <i>Molecular and Cellular Biology</i> , 2015, 35, 2790-2798.	2.3	42
25	Calcium Signals Tune the Fidelity of Transcriptional Responses. <i>Molecular Cell</i> , 2015, 58, 197-199.	9.7	15
26	STIM1 dimers undergo unimolecular coupling to activate Orai1 channels. <i>Nature Communications</i> , 2015, 6, 8395.	12.8	61
27	Potent functional uncoupling between STIM1 and Orai1 by dimeric 2-aminodiphenyl borinate analogs. <i>Cell Calcium</i> , 2014, 56, 482-492.	2.4	31
28	Distinct Orai-coupling domains in STIM1 and STIM2 define the Orai-activating site. <i>Nature Communications</i> , 2014, 5, 3183.	12.8	140
29	Targeted STIM deletion impairs calcium homeostasis, NFAT activation, and growth of smooth muscle. <i>FASEB Journal</i> , 2013, 27, 893-906.	0.5	67
30	Orai Channel Pore Properties and Gating by STIM: Implications from the Orai Crystal Structure. <i>Science Signaling</i> , 2013, 6, pe9.	3.6	53
31	STIM proteins: dynamic calcium signal transducers. <i>Nature Reviews Molecular Cell Biology</i> , 2012, 13, 549-565.	37.0	573
32	Sensing cellular stress through STIM proteins. <i>Nature Chemical Biology</i> , 2011, 7, 488-492.	8.0	37
33	STIM2 Is an Inhibitor of STIM1-Mediated Store-Operated Ca ²⁺ Entry. <i>Current Biology</i> , 2006, 16, 1465-1470.	3.9	223
34	Modification of Store-operated Channel Coupling and Inositol Trisphosphate Receptor Function by 2-Aminoethoxydiphenyl Borate in DT40 Lymphocytes. <i>Journal of Biological Chemistry</i> , 2002, 277, 6915-6922.	3.4	158