## Anant B Parekh

## List of Publications by Citations

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 90
 6,127
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#	Paper	IF	Citations
90	Store-operated calcium channels. <i>Physiological Reviews</i> , <b>2005</b> , 85, 757-810	47.9	1757
89	Depletion of InsP3 stores activates a Ca2+ and K+ current by means of a phosphatase and a diffusible messenger. <i>Nature</i> , <b>1993</b> , 364, 814-8	50.4	357
88	Store-operated CRAC channels: function in health and disease. <i>Nature Reviews Drug Discovery</i> , <b>2010</b> , 9, 399-410	64.1	240
87	The store-operated calcium current I(CRAC): nonlinear activation by InsP3 and dissociation from calcium release. <i>Cell</i> , <b>1997</b> , 89, 973-80	56.2	215
86	Store-operated Ca2+ entry depends on mitochondrial Ca2+ uptake. <i>EMBO Journal</i> , <b>2002</b> , 21, 6744-54	13	171
85	Decoding cytosolic Ca2+ oscillations. <i>Trends in Biochemical Sciences</i> , <b>2011</b> , 36, 78-87	10.3	167
84	Ca2+ microdomains near plasma membrane Ca2+ channels: impact on cell function. <i>Journal of Physiology</i> , <b>2008</b> , 586, 3043-54	3.9	166
83	Store-operated Ca2+ entry: dynamic interplay between endoplasmic reticulum, mitochondria and plasma membrane. <i>Journal of Physiology</i> , <b>2003</b> , 547, 333-48	3.9	161
82	An examination of the secretion-like coupling model for the activation of the Ca2+ release-activated Ca2+ current I(CRAC) in RBL-1 cells. <i>Journal of Physiology</i> , <b>2001</b> , 532, 55-71	3.9	137
81	Decoding of cytoplasmic Ca(2+) oscillations through the spatial signature drives gene expression. <i>Current Biology</i> , <b>2009</b> , 19, 853-8	6.3	124
80	Biphasic regulation of mitochondrial Ca2+ uptake by cytosolic Ca2+ concentration. <i>Current Biology</i> , <b>2006</b> , 16, 1672-7	6.3	103
79	Selective activation of the transcription factor NFAT1 by calcium microdomains near Ca2+ release-activated Ca2+ (CRAC) channels. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 14795-803	5.4	97
78	Sustained activation of the tyrosine kinase Syk by antigen in mast cells requires local Ca2+ influx through Ca2+ release-activated Ca2+ channels. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 31348-55	5.4	95
77	Distinct spatial Ca2+ signatures selectively activate different NFAT transcription factor isoforms. <i>Molecular Cell</i> , <b>2015</b> , 58, 232-43	17.6	91
76	Different agonists recruit different stromal interaction molecule proteins to support cytoplasmic Ca2+ oscillations and gene expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 6969-74	11.5	91
75	Ca2+ influx through CRAC channels activates cytosolic phospholipase A2, leukotriene C4 secretion, and expression of c-fos through ERK-dependent and -independent pathways in mast cells. <i>FASEB Journal</i> , <b>2006</b> , 20, 2381-3	0.9	86
74	Slow feedback inhibition of calcium release-activated calcium current by calcium entry. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 14925-32	5.4	86

73	Ca2+ -dependent inactivation of the mitochondrial Ca2+ uniporter involves proton flux through the ATP synthase. <i>Current Biology</i> , <b>2008</b> , 18, 855-9	6.3	85
72	Mitofusin 2 regulates STIM1 migration from the Ca2+ store to the plasma membrane in cells with depolarized mitochondria. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 12189-201	5.4	83
71	Mitochondrial regulation of store-operated CRAC channels. Cell Calcium, 2008, 44, 6-13	4	78
70	Close functional coupling between Ca2+ release-activated Ca2+ channels, arachidonic acid release, and leukotriene C4 secretion. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 29994-9	5.4	74
69	CRAC channels and Ca2+ signaling in mast cells. <i>Immunological Reviews</i> , <b>2009</b> , 231, 45-58	11.3	73
68	Dynamic assembly of a membrane signaling complex enables selective activation of NFAT by Orai1. <i>Current Biology</i> , <b>2014</b> , 24, 1361-1368	6.3	70
67	Monovalent cation permeability and Ca(2+) block of the store-operated Ca(2+) current I(CRAC) in rat basophilic leukemia cells. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2002</b> , 443, 892-902	4.6	70
66	Local Ca2+ influx through Ca2+ release-activated Ca2+ (CRAC) channels stimulates production of an intracellular messenger and an intercellular pro-inflammatory signal. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 4622-31	5.4	69
65	Substantial depletion of the intracellular Ca2+ stores is required for macroscopic activation of the Ca2+ release-activated Ca2+ current in rat basophilic leukaemia cells. <i>Journal of Physiology</i> , <b>2000</b> , 522 Pt 2, 247-57	3.9	62
64	Mitochondrial calcium uniporter MCU supports cytoplasmic Ca2+ oscillations, store-operated Ca2+ entry and Ca2+-dependent gene expression in response to receptor stimulation. <i>PLoS ONE</i> , <b>2014</b> , 9, e10	o₹788	59
63	CRAC channels drive digital activation and provide analog control and synergy to Ca(2+)-dependent gene regulation. <i>Current Biology</i> , <b>2012</b> , 22, 242-7	6.3	57
62	Calcium dependence and distribution of calcium-activated chloride channels in Xenopus oocytes. Journal of Physiology, <b>1997</b> , 502 (Pt 3), 569-74	3.9	50
61	Coupling of Ca(2+) microdomains to spatially and temporally distinct cellular responses by the tyrosine kinase Syk. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 24767-72	5.4	42
60	Control of NFAT Isoform Activation and NFAT-Dependent Gene Expression through Two Coincident and Spatially Segregated Intracellular Ca Signals. <i>Molecular Cell</i> , <b>2016</b> , 64, 746-759	17.6	39
59	Regulation of store-operated calcium channels by the intermediary metabolite pyruvic acid. <i>Current Biology</i> , <b>2007</b> , 17, 1076-81	6.3	39
58	Sequential forward and reverse transport of the Na Ca exchanger generates Ca oscillations within mitochondria. <i>Nature Communications</i> , <b>2018</b> , 9, 156	17.4	38
57	Targeting Ca2+ release-activated Ca2+ channel channels and leukotriene receptors provides a novel combination strategy for treating nasal polyposis. <i>Journal of Allergy and Clinical Immunology</i> , <b>2009</b> , 124, 1014-21.e1-3	11.5	38
56	Functional consequences of activating store-operated CRAC channels. <i>Cell Calcium</i> , <b>2007</b> , 42, 111-21	4	38

55	On the activation mechanism of store-operated calcium channels. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2006</b> , 453, 303-11	4.6	37
54	Ca2+ store dynamics determines the pattern of activation of the store-operated Ca2+ current I(CRAC) in response to InsP3 in rat basophilic leukaemia cells. <i>Journal of Physiology</i> , <b>2000</b> , 523 Pt 2, 283-	-90 <sup>9</sup>	37
53	On the characterisation of the mechanism underlying passive activation of the Ca2+ release-activated Ca2+ current ICRAC in rat basophilic leukaemia cells. <i>Journal of Physiology</i> , <b>1999</b> , 520 Pt 2, 407-16	3.9	35
52	Mitochondrial regulation of intracellular Ca2+ signaling: more than just simple Ca2+ buffers. <i>Physiology</i> , <b>2003</b> , 18, 252-6	9.8	34
51	Ca2+-calmodulin-dependent facilitation and Ca2+ inactivation of Ca2+ release-activated Ca2+ channels. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 8776-83	5.4	34
50	Mast cell CRAC channel as a novel therapeutic target in allergy. <i>Current Opinion in Allergy and Clinical Immunology</i> , <b>2011</b> , 11, 33-8	3.3	33
49	Intercellular Ca2+ wave propagation involving positive feedback between CRAC channels and cysteinyl leukotrienes. <i>FASEB Journal</i> , <b>2009</b> , 23, 894-905	0.9	32
48	Spatial Ca profiling: decrypting the universal cytosolic Ca oscillation. <i>Journal of Physiology</i> , <b>2017</b> , 595, 3053-3062	3.9	31
47	Distinct structural domains of caveolin-1 independently regulate Ca2+ release-activated Ca2+ channels and Ca2+ microdomain-dependent gene expression. <i>Molecular and Cellular Biology</i> , <b>2015</b> , 35, 1341-9	4.8	29
46	Cysteinyl leukotriene type I receptor desensitization sustains Ca2+-dependent gene expression. <i>Nature</i> , <b>2012</b> , 482, 111-5	50.4	29
45	Ca(2+) Channel Re-localization to Plasma-Membrane Microdomains Strengthens Activation of Ca(2+)-Dependent Nuclear Gene Expression. <i>Cell Reports</i> , <b>2015</b> , 12, 203-16	10.6	25
44	Effects of inhibitors of the lipo-oxygenase family of enzymes on the store-operated calcium current I(CRAC) in rat basophilic leukaemia cells. <i>Journal of Physiology</i> , <b>2002</b> , 539, 93-106	3.9	25
43	Endoplasmic reticulum-mitochondria coupling: local Call signalling with functional consequences. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2012</b> , 464, 27-32	4.6	24
42	Regulation of CRAC channels by Ca-dependent inactivation. <i>Cell Calcium</i> , <b>2017</b> , 63, 20-23	4	22
41	Voltage-dependent Ba2+ permeation through store-operated CRAC channels: implications for channel selectivity. <i>Cell Calcium</i> , <b>2007</b> , 42, 333-9	4	22
40	The sources of calcium for carbachol-induced contraction in the circular smooth muscle of guinea-pig stomach. <i>British Journal of Pharmacology</i> , <b>1991</b> , 104, 412-8	8.6	21
39	Key role for store-operated Ca2+ channels in activating gene expression in human airway bronchial epithelial cells. <i>PLoS ONE</i> , <b>2014</b> , 9, e105586	3.7	20
38	Mitochondrial regulation of CRAC channel-driven cellular responses. <i>Cell Calcium</i> , <b>2012</b> , 52, 52-6	4	20

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37	All-or-none activation of CRAC channels by agonist elicits graded responses in populations of mast cells. <i>Journal of Immunology</i> , <b>2007</b> , 179, 5255-63	5.3	19
36	Interaction between capacitative Ca2+ influx and Ca2+-dependent Cl- currents in Xenopus oocytes. <i>Pflugers Archiv European Journal of Physiology</i> , <b>1995</b> , 430, 954-63	4.6	19
35	Electrophysiological Recordings from Xenopus Oocytes <b>1995</b> , 341-356		19
34	Sarcoplasmic/endoplasmic-reticulum-Ca2+-ATPase-mediated Ca2+ reuptake, and not Ins(1,4,5)P3 receptor inactivation, prevents the activation of macroscopic Ca2+ release-activated Ca2+ current in the presence of physiological Ca2+ buffer in rat basophilic leukaemia-1 cells. <i>Biochemical Journal</i> ,	3.8	16
33	Voltage-dependent conductance changes in the store-operated Ca2+ current ICRAC in rat basophilic leukaemia cells. <i>Journal of Physiology</i> , <b>2000</b> , 529 Pt 2, 295-306	3.9	16
32	The Allergen Der p3 from House Dust Mite Stimulates Store-Operated Ca Channels and Mast Cell Migration through PAR4 Receptors. <i>Molecular Cell</i> , <b>2018</b> , 70, 228-241.e5	17.6	15
31	Calcium signalling: mitofusins promote interorganellar crosstalk. Current Biology, 2009, 19, R200-3	6.3	15
30	STIM proteins, Orai1 and gene expression. <i>Channels</i> , <b>2013</b> , 7, 374-8	3	14
29	Selective recruitment of different Ca-dependent transcription factors by STIM1-Orai1 channel clusters. <i>Nature Communications</i> , <b>2019</b> , 10, 2516	17.4	13
28	Caveolin-1 alters the pattern of cytoplasmic Ca2+ oscillations and Ca2+-dependent gene expression by enhancing leukotriene receptor desensitization. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 17843-53	<sub>3</sub> 5·4	13
27	Local Ca2+ influx through CRAC channels activates temporally and spatially distinct cellular responses. <i>Acta Physiologica</i> , <b>2009</b> , 195, 29-35	5.6	13
26	Activation of the store-operated calcium current ICRAC can be dissociated from regulated exocytosis in rat basophilic leukaemia (RBL-1) cells. <i>Journal of Physiology</i> , <b>2003</b> , 553, 387-93	3.9	13
25	The M3 muscarinic receptor links to three different transduction mechanisms with different efficacies in circular muscle of guinea-pig stomach. <i>British Journal of Pharmacology</i> , <b>1992</b> , 106, 639-43	8.6	13
24	The N terminus of Orai1 couples to the AKAP79 signaling complex to drive NFAT1 activation by local Ca entry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	12
23	Sarcoplasmic/endoplasmic-reticulum-Ca2+-ATPase-mediated Ca2+ reuptake, and not Ins(1,4,5)P3 receptor inactivation, prevents the activation of macroscopic Ca2+ release-activated Ca2+ current in the presence of physiological Ca2+ buffer in rat basophilic leukaemia-1 cells. <i>Biochemical Journal</i> ,	3.8	11
22	Ca2+ Influx through Store-operated Calcium Channels Replenishes the Functional Phosphatidylinositol 4,5-Bisphosphate Pool Used by Cysteinyl Leukotriene Type I Receptors. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 29555-66	5.4	10
21	Adenophostin A and ribophostin, but not inositol 1,4,5-trisphosphate or manno-adenophostin, activate the Ca2+ release-activated Ca2+ current, ICRAC, in weak intracellular Ca2+ buffer. <i>Biochemical Journal</i> , <b>2002</b> , 361, 133-141	3.8	10
20	Comparison of the activation of the Ca2+ release-activated Ca2+ current ICRAC to InsP3 in Jurkat T-lymphocytes, pulmonary artery endothelia and RBL-1 cells. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2000</b> , 440, 580-7	4.6	10

19	Single-nucleotide polymorphisms in Orai1 associated with atopic dermatitis inhibit protein turnover, decrease calcium entry and disrupt calcium-dependent gene expression. <i>Human Molecular Genetics</i> , <b>2020</b> , 29, 1808-1823	5.6	9
18	Store-operated Ca2+ channels in airway epithelial cell function and implications for asthma. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2016</b> , 371,	5.8	8
17	Adenophostin A and ribophostin, but not inositol 1,4,5-trisphosphate or manno-adenophostin, activate the Ca2+ release-activated Ca2+ current, I(CRAC), in weak intracellular Ca2+ buffer. <i>Biochemical Journal</i> , <b>2002</b> , 361, 133-41	3.8	8
16	Nonhydrolyzable analogues of GTP activate a new Na+ current in a rat mast cell line. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 23161-8	5.4	8
15	Receptors involved in mechanical responses to catecholamines in the circular muscle of guinea-pig stomach treated with meclofenamate. <i>British Journal of Pharmacology</i> , <b>1990</b> , 101, 809-14	8.6	8
14	Effects of phosphatidylinositol kinase inhibitors on the activation of the store-operated calcium current ICRAC in RBL-1 cells. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2001</b> , 442, 391-5	4.6	7
13	Store-Operated Ca Channels: Mechanism, Function, Pharmacology, and Therapeutic Targets. <i>Annual Review of Pharmacology and Toxicology</i> , <b>2021</b> , 61, 629-654	17.9	7
12	Inwardly rectifying potassium currents in rat basophilic leukaemia (RBL-1) cells: regulation by spermine and implications for store-operated calcium influx. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2002</b> , 444, 389-96	4.6	6
11	The whole-cell Ca release-activated Ca current, I, is regulated by the mitochondrial Ca uniporter channel and is independent of extracellular and cytosolic Na. <i>Journal of Physiology</i> , <b>2020</b> , 598, 1753-177	7 <b>3</b> .9	6
10	Signaling through Ca Microdomains from Store-Operated CRAC Channels. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2020</b> , 12,	10.2	5
9	Effects of protein phosphorylation on the regulation of capacitative calcium influx in Xenopus oocytes. <i>Pflugers Archiv European Journal of Physiology</i> , <b>1996</b> , 432, 14-25	4.6	4
8	AKAP79 Orchestrates a Cyclic AMP Signalosome Adjacent to Orai1 Ca Channels. Function, <b>2021</b> , 2, zqab	03.6	4
7	Arf-1 (ADP-ribosylation factor-1) is involved in the activation of a mammalian Na+-selective current. <i>Biochemical Journal</i> , <b>2004</b> , 377, 539-44	3.8	2
6	Conformational surveillance of Orai1 by a rhomboid intramembrane protease prevents inappropriate CRAC channel activation. <i>Molecular Cell</i> , <b>2021</b> , 81, 4784-4798.e7	17.6	2
5	Electrophysiological Recordings of Ca2+ Currents <b>2005</b> , 125-146		1
4	Mitofusin 2 Regulates STIM1 Migration from the Ca2+ Store to the Plasma Membrane in Cells with Depolarized Mitochondria. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 12189-12201	5.4	1
3	Conformational surveillance of Orai1 by a rhomboid intramembrane protease prevents inappropriate CRAC channel activation		1
2	Cytosolic and intra-organellar Ca2+ oscillations: mechanisms and function. <i>Current Opinion in Physiology</i> , <b>2020</b> , 17, 175-186	2.6	

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