

# Alexei V Tepikin

## List of Publications by Year in descending order

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100  
papers

8,147  
citations

34076

52  
h-index

46771

89  
g-index

101  
all docs

101  
docs citations

101  
times ranked

7327  
citing authors

#	ARTICLE	IF	CITATIONS
1	Protective Effects of Necrostatin-1 in Acute Pancreatitis: Partial Involvement of Receptor Interacting Protein Kinase 1. <i>Cells</i> , 2021, 10, 1035.	1.8	10
2	Polarity of action in salivary gland acinar cells: Local and preferential Ca <sup>2+</sup> signalling. <i>Cell Calcium</i> , 2021, 99, 102471.	1.1	0
3	LAP-like non-canonical autophagy and evolution of endocytic vacuoles in pancreatic acinar cells. <i>Autophagy</i> , 2020, 16, 1314-1331.	4.3	15
4	The role of Ca <sup>2+</sup> signalling in the physiology and pathophysiology of exocrine pancreas. <i>Current Opinion in Physiology</i> , 2020, 17, 96-105.	0.9	1
5	Knockout of the Mitochondrial Calcium Uniporter Strongly Suppresses Stimulus-Metabolism Coupling in Pancreatic Acinar Cells but Does Not Reduce Severity of Experimental Acute Pancreatitis. <i>Cells</i> , 2020, 9, 1407.	1.8	10
6	Mitochondrial Targeting of Antioxidants Alters Pancreatic Acinar Cell Bioenergetics and Determines Cell Fate. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1700.	1.8	11
7	Altered Bioenergetics of Blood Cell Sub-Populations in Acute Pancreatitis Patients. <i>Journal of Clinical Medicine</i> , 2019, 8, 2201.	1.0	5
8	Oxidative stress alters mitochondrial bioenergetics and modifies pancreatic cell death independently of cyclophilin D, resulting in an apoptosis-to-necrosis shift. <i>Journal of Biological Chemistry</i> , 2018, 293, 8032-8047.	1.6	75
9	Intracellular rupture, exocytosis and actin interaction of endocytic vacuoles in pancreatic acinar cells: initiating events in acute pancreatitis. <i>Journal of Physiology</i> , 2018, 596, 2547-2564.	1.3	15
10	TRO40303 Ameliorates Alcohol-Induced Pancreatitis Through Reduction of Fatty Acid Ethyl Ester-Induced Mitochondrial Injury and Necrotic Cell Death. <i>Pancreas</i> , 2018, 47, 18-24.	0.5	23
11	Mitochondrial signalling, physiology and pathophysiology. <i>Pflugers Archiv European Journal of Physiology</i> , 2018, 470, 1139-1140.	1.3	0
12	F1FO-ATP Synthase Inhibitory Factor 1 in the Normal Pancreas and in Pancreatic Ductal Adenocarcinoma: Effects on Bioenergetics, Invasion and Proliferation. <i>Frontiers in Physiology</i> , 2018, 9, 833.	1.3	7
13	Mitochondrial junctions with cellular organelles: Ca <sup>2+</sup> signalling perspective. <i>Pflugers Archiv European Journal of Physiology</i> , 2018, 470, 1181-1192.	1.3	16
14	Biology, role and therapeutic potential of circulating histones in acute inflammatory disorders. <i>Journal of Cellular and Molecular Medicine</i> , 2018, 22, 4617-4629.	1.6	58
15	Caffeine protects against experimental acute pancreatitis by inhibition of inositol 1,4,5-trisphosphate receptor-mediated Ca <sup>2+</sup> release. <i>Gut</i> , 2017, 66, 301-313.	6.1	74
16	Introduction. <i>Advances in Experimental Medicine and Biology</i> , 2017, 993, 213-216.	0.8	0
17	New Aspects of the Contribution of ER to SOCE Regulation: The Role of the ER and ER-Plasma Membrane Junctions in the Regulation of SOCE. <i>Advances in Experimental Medicine and Biology</i> , 2017, 993, 217-237.	0.8	0
18	Selective inhibition of BET proteins reduces pancreatic damage and systemic inflammation in bile acid- and fatty acid ethyl ester- but not caerulein-induced acute pancreatitis. <i>Pancreatology</i> , 2017, 17, 689-697.	0.5	17

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19	Intramitochondrial Ca <sup>2+</sup> Sensing by EMRE: The Matrix Outlook on Stimulus-Metabolism Coupling. <i>Molecular Cell</i> , 2016, 61, 646-647.	4.5	2
20	Epithelial-mesenchymal transition, IP3 receptors and ER-PM junctions: translocation of Ca <sup>2+</sup> signalling complexes and regulation of migration. <i>Biochemical Journal</i> , 2016, 473, 757-767.	1.7	21
21	Endoplasmic reticulum-plasma membrane junctions: structure, function and dynamics. <i>Journal of Physiology</i> , 2016, 594, 2837-2847.	1.3	37
22	Mechanism of mitochondrial permeability transition pore induction and damage in the pancreas: inhibition prevents acute pancreatitis by protecting production of ATP. <i>Gut</i> , 2016, 65, 1333-1346.	6.1	159
23	Effects of the Mitochondria-Targeted Antioxidant Mitoquinone in Murine Acute Pancreatitis. <i>Mediators of Inflammation</i> , 2015, 2015, 1-13.	1.4	29
24	Inhibitors of ORAI1 Prevent Cytosolic Calcium-Associated Injury of Human Pancreatic Acinar Cells and Acute Pancreatitis in 3 Mouse Models. <i>Gastroenterology</i> , 2015, 149, 481-492.e7.	0.6	162
25	The role of Ca <sup>2+</sup> influx in endocytic vacuole formation in pancreatic acinar cells. <i>Biochemical Journal</i> , 2015, 465, 405-412.	1.7	30
26	Novel Lipophilic Probe for Detecting Near-Membrane Reactive Oxygen Species Responses and Its Application for Studies of Pancreatic Acinar Cells: Effects of Pyocyanin and L-Ornithine. <i>Antioxidants and Redox Signaling</i> , 2015, 22, 451-464.	2.5	19
27	Fatty acid ethyl ester synthase inhibition ameliorates ethanol-induced Ca <sup>2+</sup> -dependent mitochondrial dysfunction and acute pancreatitis. <i>Gut</i> , 2014, 63, 1313-1324.	6.1	135
28	How to win ATP and influence Ca <sup>2+</sup> signaling. <i>Cell Calcium</i> , 2014, 55, 131-138.	1.1	10
29	cAMP inhibits migration, ruffling and paxillin accumulation in focal adhesions of pancreatic ductal adenocarcinoma cells: Effects of PKA and EPAC. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013, 1833, 2664-2672.	1.9	44
30	Saltatory formation, sliding and dissolution of ER-PM junctions in migrating cancer cells. <i>Biochemical Journal</i> , 2013, 451, 25-32.	1.7	14
31	cAMP Induces Stromal Interaction Molecule 1 (STIM1) Puncta but neither Orai1 Protein Clustering nor Store-operated Ca <sup>2+</sup> Entry (SOCE) in Islet Cells. <i>Journal of Biological Chemistry</i> , 2012, 287, 9862-9872.	1.6	45
32	Cellular geography of IP3 receptors, STIM and Orai: a lesson from secretory epithelial cells. <i>Biochemical Society Transactions</i> , 2012, 40, 108-111.	1.6	5
33	A Novel Role for Bcl-2 in Regulation of Cellular Calcium Extrusion. <i>Current Biology</i> , 2012, 22, 1241-1246.	1.8	37
34	Mitochondrial calcium in the life and death of exocrine secretory cells. <i>Cell Calcium</i> , 2012, 52, 86-92.	1.1	7
35	Reactive Oxygen Species Induced by Bile Acid Induce Apoptosis and Protect Against Necrosis in Pancreatic Acinar Cells. <i>Gastroenterology</i> , 2011, 140, 2116-2125.	0.6	157
36	InsP <sub>3</sub> receptors and Orai channels in pancreatic acinar cells: co-localization and its consequences. <i>Biochemical Journal</i> , 2011, 436, 231-239.	1.7	50

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37	Calmodulin protects against alcohol-induced pancreatic trypsinogen activation elicited via Ca <sup>2+</sup> release through IP <sub>3</sub> receptors. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5873-5878.	3.3	47
38	Role of phosphoinositides in STIM1 dynamics and store-operated calcium entry. Biochemical Journal, 2010, 425, 159-168.	1.7	138
39	Evidence for an interaction between Golgi and STIM1 in store-operated calcium entry. Biochemical Journal, 2010, 430, 453-460.	1.7	60
40	Dynamic Changes in Cytosolic and Mitochondrial ATP Levels in Pancreatic Acinar Cells. Gastroenterology, 2010, 138, 1976-1987.e5.	0.6	120
41	Pharmacologically Directed Cell Disposal: Labeling Damaged Cells for Phagocytosis as a Strategy against Acute Pancreatitis. Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics, 2010, 10, 80-85.	3.4	3
42	Pancreatic protease activation by alcohol metabolite depends on Ca <sup>2+</sup> release via acid store IP <sub>3</sub> receptors. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 10758-10763.	3.3	97
43	Calcium Elevation in Mitochondria Is the Main Ca <sup>2+</sup> Requirement for Mitochondrial Permeability Transition Pore (mPTP) Opening. Journal of Biological Chemistry, 2009, 284, 20796-20803.	1.6	217
44	Ribosome-free Terminals of Rough ER Allow Formation of STIM1 Puncta and Segregation of STIM1 from IP <sub>3</sub> Receptors. Current Biology, 2009, 19, 1648-1653.	1.8	114
45	Modulation of calcium signalling by mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 1374-1382.	0.5	110
46	ATP depletion inhibits Ca <sup>2+</sup> release, influx and extrusion in pancreatic acinar cells but not pathological Ca <sup>2+</sup> responses induced by bile. Pflugers Archiv European Journal of Physiology, 2008, 455, 1025-1039.	1.3	37
47	ATP depletion induces translocation of STIM1 to puncta and formation of STIM1-ORAI1 clusters: translocation and re-translocation of STIM1 does not require ATP. Pflugers Archiv European Journal of Physiology, 2008, 457, 505-517.	1.3	40
48	Direct Activation of Cytosolic Ca <sup>2+</sup> Signaling and Enzyme Secretion by Cholecystokinin in Human Pancreatic Acinar Cells. Gastroenterology, 2008, 135, 632-641.	0.6	139
49	Hippocalcin signaling via site-specific translocation in hippocampal neurons. Neuroscience Letters, 2008, 442, 152-157.	1.0	23
50	Polarized Calcium Signaling in Exocrine Gland Cells. Annual Review of Physiology, 2008, 70, 273-299.	5.6	266
51	Activation of trypsinogen in large endocytic vacuoles of pancreatic acinar cells. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 5674-5679.	3.3	145
52	Visualizing formation and dynamics of vacuoles in living cells using contrasting dextran-bound indicator: endocytic and nonendocytic vacuoles. American Journal of Physiology - Renal Physiology, 2007, 293, G1333-G1338.	1.6	8
53	Caspase-8-mediated apoptosis induced by oxidative stress is independent of the intrinsic pathway and dependent on cathepsins. American Journal of Physiology - Renal Physiology, 2007, 293, G296-G307.	1.6	71
54	Fatty Acid Ethyl Esters Cause Pancreatic Calcium Toxicity via Inositol Trisphosphate Receptors and Loss of ATP Synthesis. Gastroenterology, 2006, 130, 781-793.	0.6	234

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55	Calcium-dependent release of NO from intracellular S-nitrosothiols. EMBO Journal, 2006, 25, 3024-3032.	3.5	48
56	Calcium gradients and the Golgi. Cell Calcium, 2006, 40, 505-512.	1.1	55
57	Menadione-induced Reactive Oxygen Species Generation via Redox Cycling Promotes Apoptosis of Murine Pancreatic Acinar Cells. Journal of Biological Chemistry, 2006, 281, 40485-40492.	1.6	307
58	NAADP, cADPR and IP3 all release Ca <sup>2+</sup> from the endoplasmic reticulum and an acidic store in the secretory granule area. Journal of Cell Science, 2006, 119, 226-238.	1.2	149
59	Bile Acids Induce Ca <sup>2+</sup> Release from Both the Endoplasmic Reticulum and Acidic Intracellular Calcium Stores through Activation of Inositol Trisphosphate Receptors and Ryanodine Receptors. Journal of Biological Chemistry, 2006, 281, 40154-40163.	1.6	124
60	How to measure Ca <sup>2+</sup> in cellular organelles?. Cell Calcium, 2005, 38, 201-211.	1.1	28
61	Traffic of Kv4 K <sup>+</sup> channels mediated by KChIP1 is via a novel post-ER vesicular pathway. Journal of Cell Biology, 2005, 171, 459-469.	2.3	87
62	Bile Acids Induce a Cationic Current, Depolarizing Pancreatic Acinar Cells and Increasing the Intracellular Na <sup>+</sup> Concentration. Journal of Biological Chemistry, 2005, 280, 1764-1770.	1.6	39
63	Stable Golgi-Mitochondria Complexes and Formation of Golgi Ca <sup>2+</sup> Gradients in Pancreatic Acinar Cells. Journal of Biological Chemistry, 2005, 280, 15794-15799.	1.6	95
64	Subcellular Compartmentalization of Calcium Signaling. , 2005, , 417-432.		0
65	Effects of Secretagogues and Bile Acids on Mitochondrial Membrane Potential of Pancreatic Acinar Cells. Journal of Biological Chemistry, 2004, 279, 27327-27338.	1.6	114
66	Calcium-binding Protein 1 Is an Inhibitor of Agonist-evoked, Inositol 1,4,5-Trisphosphate-mediated Calcium Signaling. Journal of Biological Chemistry, 2004, 279, 547-555.	1.6	111
67	Ethanol toxicity in pancreatic acinar cells: Mediation by nonoxidative fatty acid metabolites. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 10738-10743.	3.3	183
68	Neuronal Ca <sup>2+</sup> -sensor proteins: multitasking regulators of neuronal function. Trends in Neurosciences, 2004, 27, 203-209.	4.2	188
69	Dual sensitivity of sarcoplasmic/endoplasmic Ca <sup>2+</sup> -ATPase to cytosolic and endoplasmic reticulum Ca <sup>2+</sup> as a mechanism of modulating cytosolic Ca <sup>2+</sup> oscillations. Biochemical Journal, 2004, 383, 353-360.	1.7	37
70	Non-uniform distribution of mitochondria in pancreatic acinar cells. Cell and Tissue Research, 2003, 313, 37-45.	1.5	49
71	Signal transduction, calcium and acute pancreatitis. Pancreatology, 2003, 3, 497-505.	0.5	99
72	Long Distance Communication between Muscarinic Receptors and Ca <sup>2+</sup> Release Channels Revealed by Carbachol Uncaging in Cell-attached Patch Pipette. Journal of Biological Chemistry, 2003, 278, 20860-20864.	1.6	46

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73	Dynamics and calcium sensitivity of the Ca <sup>2+</sup> /myristoyl switch protein hippocalcin in living cells. <i>Journal of Cell Biology</i> , 2003, 163, 715-721.	2.3	74
74	NAADP mobilizes Ca <sup>2+</sup> from a thapsigargin-sensitive store in the nuclear envelope by activating ryanodine receptors. <i>Journal of Cell Biology</i> , 2003, 163, 271-282.	2.3	209
75	Spatial characterisation of ryanodine-induced calcium release in mouse pancreatic acinar cells. <i>Biochemical Journal</i> , 2003, 369, 441-445.	1.7	17
76	Differential Use of Myristoyl Groups on Neuronal Calcium Sensor Proteins as a Determinant of Spatio-temporal Aspects of Ca <sup>2+</sup> Signal Transduction. <i>Journal of Biological Chemistry</i> , 2002, 277, 14227-14237.	1.6	129
77	Basal and Physiological Ca <sup>2+</sup> Leak from the Endoplasmic Reticulum of Pancreatic Acinar Cells. <i>Journal of Biological Chemistry</i> , 2002, 277, 26479-26485.	1.6	115
78	Localized Ca <sup>2+</sup> uncaging reveals polarized distribution of Ca <sup>2+</sup> -sensitive Ca <sup>2+</sup> release sites. <i>Journal of Cell Biology</i> , 2002, 158, 283-292.	2.3	69
79	Polarized Calcium and Calmodulin Signaling in Secretory Epithelia. <i>Physiological Reviews</i> , 2002, 82, 701-734.	13.1	111
80	Calcium leak from intracellular stores—the enigma of calcium signalling. <i>Cell Calcium</i> , 2002, 32, 355-361.	1.1	166
81	What can we learn about cell signalling by combining optical imaging and patch clamp techniques?. <i>Pflügers Archiv European Journal of Physiology</i> , 2002, 444, 305-316.	1.3	33
82	Correlation of NADH and Ca <sup>2+</sup> signals in mouse pancreatic acinar cells. <i>Journal of Physiology</i> , 2002, 539, 41-52.	1.3	105
83	Bile acids induce calcium signals in mouse pancreatic acinar cells: implications for bile-induced pancreatic pathology. <i>Journal of Physiology</i> , 2002, 540, 49-55.	1.3	149
84	Transformation of local Ca <sup>2+</sup> spikes to global Ca <sup>2+</sup> transients: the combinatorial roles of multiple Ca <sup>2+</sup> releasing messengers. <i>EMBO Journal</i> , 2002, 21, 909-919.	3.5	166
85	Menadione-induced apoptosis: roles of cytosolic Ca <sup>2+</sup> elevations and the mitochondrial permeability transition pore. <i>Journal of Cell Science</i> , 2002, 115, 485-497.	1.2	139
86	Menadione-induced apoptosis: roles of cytosolic Ca(2+) elevations and the mitochondrial permeability transition pore. <i>Journal of Cell Science</i> , 2002, 115, 485-97.	1.2	123
87	ER calcium and the functions of intracellular organelles. <i>Seminars in Cell and Developmental Biology</i> , 2001, 12, 11-17.	2.3	98
88	The endoplasmic reticulum: one continuous or several separate Ca <sup>2+</sup> stores?. <i>Trends in Neurosciences</i> , 2001, 24, 271-276.	4.2	151
89	Calcium binding capacity of the cytosol and endoplasmic reticulum of mouse pancreatic acinar cells. <i>Journal of Physiology</i> , 1999, 518, 463-467.	1.3	81
90	Minireview: Regulation of store-operated calcium entry: lessons from a polarized cell. <i>European Journal of Cell Biology</i> , 1999, 78, 221-223.	1.6	15

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91	Polarity in intracellular calcium signaling. <i>BioEssays</i> , 1999, 21, 851-860.	1.2	78
92	The calcium store in the nuclear envelope. <i>Cell Calcium</i> , 1998, 23, 87-90.	1.1	103
93	Intracellular glucose switches between cyclic ADP-ribose and inositol trisphosphate triggering of cytosolic Ca <sup>2+</sup> spiking. <i>Current Biology</i> , 1998, 8, 865-868.	1.8	34
94	Calcium uptake via endocytosis with rapid release from acidifying endosomes. <i>Current Biology</i> , 1998, 8, 1335-1338.	1.8	227
95	Isoproterenol Evokes Extracellular Ca <sup>2+</sup> Spikes Due to Secretory Events in Salivary Gland Cells. <i>Journal of Biological Chemistry</i> , 1998, 273, 4106.	1.6	29
96	Ca <sup>2+</sup> Flow via Tunnels in Polarized Cells: Recharging of Apical Ca <sup>2+</sup> Stores by Focal Ca <sup>2+</sup> Entry through Basal Membrane Patch. <i>Cell</i> , 1997, 88, 49-55.	13.5	268
97	Distribution of Ca <sup>2+</sup> extrusion sites on the mouse pancreatic acinar cell surface. <i>Cell Calcium</i> , 1997, 22, 5-10.	1.1	32
98	Short pulses of acetylcholine stimulation induce cytosolic Ca <sup>2+</sup> signals that are excluded from the nuclear region in pancreatic acinar cells. <i>Pflügers Archiv European Journal of Physiology</i> , 1996, 432, 1055-1061.	1.3	52
99	Localization of Ca <sup>2+</sup> Extrusion Sites in Pancreatic Acinar Cells. <i>Journal of Biological Chemistry</i> , 1996, 271, 7615-7619.	1.6	78
100	ATP-dependent accumulation and inositol trisphosphate- or cyclic ADP-ribose-mediated release of Ca <sup>2+</sup> from the nuclear envelope. <i>Cell</i> , 1995, 80, 439-444.	13.5	367