

# peter Thorn

## List of Publications by Citations

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66

papers

2,738

citations

30

h-index

51

g-index

69

ext. papers

2,994

ext. citations

6.2

avg, IF

4.97

L-index

#	Paper	IF	Citations
66	Local and global cytosolic Ca <sup>2+</sup> oscillations in exocrine cells evoked by agonists and inositol trisphosphate. <i>Cell</i> , <b>1993</b> , 74, 661-8	56.2	463
65	Hyaluronic acid modified mesoporous silica nanoparticles for targeted drug delivery to CD44-overexpressing cancer cells. <i>Nanoscale</i> , <b>2013</b> , 5, 178-83	7.7	240
64	Paclitaxel affects cytosolic calcium signals by opening the mitochondrial permeability transition pore. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 6504-10	5.4	147
63	Zymogen granule exocytosis is characterized by long fusion pore openings and preservation of vesicle lipid identity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 6774-9	11.5	104
62	Intracellular Ca <sup>2+</sup> and Cl <sup>-</sup> channel activation in secretory cells. <i>Annual Review of Physiology</i> , <b>2000</b> , 62, 493-513	23.1	93
61	Activation of nonselective cation channels by physiological cholecystokinin concentrations in mouse pancreatic acinar cells. <i>Journal of General Physiology</i> , <b>1992</b> , 100, 11-25	3.4	83
60	Calcium signalling: IP3 rises again...and again. <i>Current Biology</i> , <b>2001</b> , 11, R352-5	6.3	69
59	Vesicle-associated membrane protein 8 (VAMP8) is a SNARE (soluble N-ethylmaleimide-sensitive factor attachment protein receptor) selectively required for sequential granule-to-granule fusion. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 29627-34	5.4	62
58	Cytosolic Ca <sup>2+</sup> spikes evoked by the thiol reagent thimerosal in both intact and internally perfused single pancreatic acinar cells. <i>Pflugers Archiv European Journal of Physiology</i> , <b>1992</b> , 422, 173-8	4.6	62
57	A simple approach to prepare monodisperse mesoporous silica nanospheres with adjustable sizes. <i>Journal of Colloid and Interface Science</i> , <b>2012</b> , 376, 67-75	9.3	59
56	Insulin secretion from beta cells in intact mouse islets is targeted towards the vasculature. <i>Diabetologia</i> , <b>2014</b> , 57, 1655-63	10.3	53
55	Dynamic regulation of the large exocytotic fusion pore in pancreatic acinar cells. <i>Molecular Biology of the Cell</i> , <b>2007</b> , 18, 3502-11	3.5	53
54	The plasma membrane Q-SNARE syntaxin 2 enters the zymogen granule membrane during exocytosis in the pancreatic acinar cell. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 1506-11	5.4	51
53	Regulation of adenyl cyclase by membrane potential. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 27703-7	5.4	51
52	A novel large-conductance Ca(2+)-activated potassium channel and current in nerve terminals of the rat neurohypophysis. <i>Journal of Physiology</i> , <b>1992</b> , 457, 47-74	3.9	46
51	Ca <sup>2+</sup> oscillations in pancreatic acinar cells: spatiotemporal relationships and functional implications. <i>Cell Calcium</i> , <b>1993</b> , 14, 746-57	4	46
50	Cell polarity defines three distinct domains in pancreatic β cells. <i>Journal of Cell Science</i> , <b>2017</b> , 130, 143-151	3.3	44

49	Protons released during pancreatic acinar cell secretion acidify the lumen and contribute to pancreatitis in mice. <i>Gastroenterology</i> , <b>2010</b> , 139, 1711-20, 1720.e1-5	13.3	44
48	Myosin 2 maintains an open exocytic fusion pore in secretory epithelial cells. <i>Molecular Biology of the Cell</i> , <b>2009</b> , 20, 1795-803	3.5	42
47	Mechanisms underlying InsP3-evoked global Ca <sup>2+</sup> signals in mouse pancreatic acinar cells. <i>Journal of Physiology</i> , <b>2000</b> , 526 Pt 3, 515-26	3.9	39
46	Agonist-evoked inositol trisphosphate receptor (IP3R) clustering is not dependent on changes in the structure of the endoplasmic reticulum. <i>Biochemical Journal</i> , <b>2006</b> , 394, 57-66	3.8	37
45	Glucose principally regulates insulin secretion in mouse islets by controlling the numbers of granule fusion events per cell. <i>Diabetologia</i> , <b>2013</b> , 56, 2629-37	10.3	35
44	Identification of CLC-2-like chloride currents in pig pancreatic acinar cells. <i>Pflugers Archiv European Journal of Physiology</i> , <b>1996</b> , 433, 84-90	4.6	35
43	Local Integrin Activation in Pancreatic $\beta$ Cells Targets Insulin Secretion to the Vasculature. <i>Cell Reports</i> , <b>2018</b> , 24, 2819-2826.e3	10.6	35
42	The secretory deficit in islets from db/db mice is mainly due to a loss of responding beta cells. <i>Diabetologia</i> , <b>2014</b> , 57, 1400-9	10.3	33
41	Hepatocyte growth factor acutely perturbs actin filament anchorage at the epithelial zonula adherens. <i>Current Biology</i> , <b>2011</b> , 21, 503-7	6.3	33
40	Two phases of zymogen granule lifetime in mouse pancreas: ghost granules linger after exocytosis of contents. <i>Journal of Physiology</i> , <b>2005</b> , 563, 433-42	3.9	33
39	Inositol (1,4,5)-trisphosphate receptor links to filamentous actin are important for generating local Ca <sup>2+</sup> signals in pancreatic acinar cells. <i>Journal of Cell Science</i> , <b>2005</b> , 118, 971-80	5.3	33
38	In vivo visualization of albumin degradation in the proximal tubule. <i>Kidney International</i> , <b>2008</b> , 74, 1480-6.9	6.9	31
37	Lysine-fixable dye tracing of exocytosis shows F-actin coating is a step that follows granule fusion in pancreatic acinar cells. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2004</b> , 448, 552-5	4.6	30
36	A high-conductance calcium-dependent chloride channel in <i>Ascaris suum</i> muscle. <i>Quarterly Journal of Experimental Physiology (Cambridge, England)</i> , <b>1987</b> , 72, 31-49		30
35	A multidrug ABC transporter with a taste for salt. <i>PLoS ONE</i> , <b>2009</b> , 4, e6137	3.7	30
34	The Role of the Islet Niche on Beta Cell Structure and Function. <i>Journal of Molecular Biology</i> , <b>2020</b> , 432, 1407-1418	6.5	30
33	Ca <sup>2+</sup> dynamics in salivary acinar cells: distinct morphology of the acinar lumen underlies near-synchronous global Ca <sup>2+</sup> responses. <i>Journal of Cell Science</i> , <b>2005</b> , 118, 4131-9	5.3	29
32	Exocytosis, dependent on Ca <sup>2+</sup> release from Ca <sup>2+</sup> stores, is regulated by Ca <sup>2+</sup> microdomains. <i>Journal of Cell Science</i> , <b>2010</b> , 123, 3201-8	5.3	28

31	The role of Ca <sup>2+</sup> feedback in shaping InsP <sub>3</sub> -evoked Ca <sup>2+</sup> signals in mouse pancreatic acinar cells. <i>Journal of Physiology</i> , <b>1999</b> , 520 Pt 1, 187-201	3.9	28
30	Microtubules regulate local Ca <sup>2+</sup> spiking in secretory epithelial cells. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 22487-94	5.4	27
29	Ca <sup>2+</sup> influx during agonist and Ins(2,4,5)P <sub>3</sub> -evoked Ca <sup>2+</sup> oscillations in HeLa epithelial cells. <i>Journal of Physiology</i> , <b>1995</b> , 482 ( Pt 2), 275-81	3.9	27
28	Insulin secretion from beta cells within intact islets: location matters. <i>Clinical and Experimental Pharmacology and Physiology</i> , <b>2015</b> , 42, 406-14	3	25
27	Effects of cell density and biomacromolecule addition on the flow behavior of concentrated mesenchymal cell suspensions. <i>Biomacromolecules</i> , <b>2013</b> , 14, 4388-97	6.9	23
26	Synchronous calcium oscillations in cerebellar granule cells in culture mediated by NMDA receptors. <i>NeuroReport</i> , <b>1993</b> , 4, 539-42	1.7	23
25	Syncollin is required for efficient zymogen granule exocytosis. <i>Biochemical Journal</i> , <b>2005</b> , 385, 721-7	3.8	22
24	Real-time measurement of F-actin remodelling during exocytosis using Lifeact-EGFP transgenic animals. <i>PLoS ONE</i> , <b>2012</b> , 7, e39815	3.7	20
23	Identification and function of type-2 and type-3 ryanodine receptors in gut epithelial cells. <i>Biochemical Journal</i> , <b>1996</b> , 319 ( Pt 2), 449-54	3.8	20
22	HCO <sub>3</sub> <sup>-</sup> Transport through Anoctamin/Transmembrane Protein ANO1/TMEM16A in Pancreatic Acinar Cells Regulates Luminal pH. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 20345-52	5.4	17
21	Pancreatic acinar cell: new insights into the control of secretion. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2010</b> , 42, 1586-9	5.6	17
20	An approach to prepare polyethylenimine functionalized silica-based spheres with small size for siRNA delivery. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 15626-31	9.5	16
19	Facile synthesis of ultra-small hybrid silica spheres for enhanced penetration in 3D glioma spheroids. <i>Chemical Communications</i> , <b>2014</b> , 50, 1527-9	5.8	14
18	A bimodal pattern of InsP(3)-evoked elementary Ca(2+) signals in pancreatic acinar cells. <i>Biophysical Journal</i> , <b>2000</b> , 78, 2298-306	2.9	13
17	The properties of the secretagogue-evoked chloride current in mouse pancreatic acinar cells. <i>Pflügers Archiv European Journal of Physiology</i> , <b>2001</b> , 441, 489-97	4.6	12
16	The structural integrity of the endoplasmic reticulum, and its possible regulation by inositol 1,3,4,5-tetrakisphosphate. <i>Cell Calcium</i> , <b>2005</b> , 38, 153-9	4	11
15	Ca <sup>2+</sup> signalling in rat chromaffin cells: interplay between Ca <sup>2+</sup> release from intracellular stores and membrane potential. <i>Cell Calcium</i> , <b>1996</b> , 19, 113-23	4	11
14	Lepr(db) mouse model of type 2 diabetes: pancreatic islet isolation and live-cell 2-photon imaging of intact islets. <i>Journal of Visualized Experiments</i> , <b>2015</b> , e52632	1.6	10

13	A voltage-sensitive transient potassium current in mouse pancreatic acinar cells. <i>Pflugers Archiv European Journal of Physiology</i> , <b>1994</b> , 428, 288-95	4.6	9
12	Activation of voltage-sensitive Ca <sup>2+</sup> currents by vasopressin in an insulin-secreting cell line. <i>Journal of Membrane Biology</i> , <b>1991</b> , 124, 63-71	2.3	9
11	Structural and functional polarisation of human pancreatic beta cells in islets from organ donors with and without type 2 diabetes. <i>Diabetologia</i> , <b>2021</b> , 64, 618-629	10.3	9
10	Arp2/3 nucleates F-actin coating of fusing insulin granules in pancreatic $\beta$ cells to control insulin secretion. <i>Journal of Cell Science</i> , <b>2020</b> , 133,	5.3	7
9	A constitutively active nonselective cation conductance underlies resting Ca <sup>2+</sup> influx and secretion in bovine adrenal chromaffin cells. <i>Cell Calcium</i> , <b>2006</b> , 40, 309-18	4	7
8	Modulation of IP(3)-sensitive Ca(2+) release by 2,3-butanedione monoxime. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2003</b> , 445, 614-21	4.6	7
7	Effects of synthetic biomacromolecule addition on the flow behavior of concentrated mesenchymal cell suspensions. <i>Biomacromolecules</i> , <b>2015</b> , 16, 275-83	6.9	5
6	Measuring calcium signals and exocytosis in tissues. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2012</b> , 1820, 1179-84	4	4
5	Calcium signalling: calcium goes global. <i>Current Biology</i> , <b>2002</b> , 12, R432-3	6.3	4
4	Enhanced structure and function of human pluripotent stem cell-derived beta-cells cultured on extracellular matrix. <i>Stem Cells Translational Medicine</i> , <b>2021</b> , 10, 492-505	6.9	4
3	Secretory control: evidence for agonist regulation of post-fusion vesicle behaviour. <i>Clinical and Experimental Pharmacology and Physiology</i> , <b>2010</b> , 37, 218-21	3	3
2	Local dynamic changes in confined extracellular environments within organs. <i>Clinical and Experimental Pharmacology and Physiology</i> , <b>2009</b> , 36, 1010-5	3	1
1	Measurement of dynamic F-actin changes during exocytosis. <i>Methods in Molecular Biology</i> , <b>2014</b> , 1174, 423-31	1.4	