

# Thomas Simmen

## List of Publications by Year in descending order

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57  
papers

5,868  
citations

94433

37  
h-index

144013

57  
g-index

59  
all docs

59  
docs citations

59  
times ranked

7654  
citing authors

#	ARTICLE	IF	CITATIONS
1	Increased ER-mitochondrial coupling promotes mitochondrial respiration and bioenergetics during early phases of ER stress. <i>Journal of Cell Science</i> , 2011, 124, 2143-2152.	2.0	483
2	PACS-2 controls endoplasmic reticulum-mitochondria communication and Bid-mediated apoptosis. <i>EMBO Journal</i> , 2005, 24, 717-729.	7.8	469
3	Coming together to define membrane contact sites. <i>Nature Communications</i> , 2019, 10, 1287.	12.8	435
4	Where the endoplasmic reticulum and the mitochondrion tie the knot: The mitochondria-associated membrane (MAM). <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013, 1833, 213-224.	4.1	373
5	ERp44, a novel endoplasmic reticulum folding assistant of the thioredoxin family. <i>EMBO Journal</i> , 2002, 21, 835-844.	7.8	237
6	Trafficking of TRPP2 by PACS proteins represents a novel mechanism of ion channel regulation. <i>EMBO Journal</i> , 2005, 24, 705-716.	7.8	237
7	Thiol-mediated protein retention in the endoplasmic reticulum: the role of ERp44. <i>EMBO Journal</i> , 2003, 22, 5015-5022.	7.8	208
8	AP-4 binds basolateral signals and participates in basolateral sorting in epithelial MDCK cells. <i>Nature Cell Biology</i> , 2002, 4, 154-159.	10.3	206
9	The Subcellular Distribution of Calnexin Is Mediated by PACS-2. <i>Molecular Biology of the Cell</i> , 2008, 19, 2777-2788.	2.1	186
10	Oxidative protein folding in the endoplasmic reticulum: Tight links to the mitochondria-associated membrane (MAM). <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010, 1798, 1465-1473.	2.6	180
11	Palmitoylated TMX and calnexin target to the mitochondria-associated membrane. <i>EMBO Journal</i> , 2012, 31, 457-470.	7.8	179
12	ERdj5, an Endoplasmic Reticulum (ER)-resident Protein Containing DnaJ and Thioredoxin Domains, Is Expressed in Secretory Cells or following ER Stress. <i>Journal of Biological Chemistry</i> , 2003, 278, 1059-1066.	3.4	175
13	Redox crosstalk at endoplasmic reticulum (ER) membrane contact sites (MCS) uses toxic waste to deliver messages. <i>Cell Death and Disease</i> , 2018, 9, 331.	6.3	158
14	Ero1 $\beta$ requires oxidizing and normoxic conditions to localize to the mitochondria-associated membrane (MAM). <i>Cell Stress and Chaperones</i> , 2010, 15, 619-629.	2.9	148
15	Rab32 Modulates Apoptosis Onset and Mitochondria-associated Membrane (MAM) Properties. <i>Journal of Biological Chemistry</i> , 2010, 285, 31590-31602.	3.4	139
16	A Role for the Ancient SNARE Syntaxin 17 in Regulating Mitochondrial Division. <i>Developmental Cell</i> , 2015, 32, 304-317.	7.0	126
17	Palmitoylation is the Switch that Assigns Calnexin to Quality Control or ER Calcium Signaling. <i>Journal of Cell Science</i> , 2013, 126, 3893-903.	2.0	125
18	Dimerization-Dependent Green and Yellow Fluorescent Proteins. <i>ACS Synthetic Biology</i> , 2012, 1, 569-575.	3.8	117

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19	TMX1 determines cancer cell metabolism as a thiol-based modulator of ER-mitochondria Ca <sup>2+</sup> flux. <i>Journal of Cell Biology</i> , 2016, 214, 433-444.	5.2	113
20	Urban planning of the endoplasmic reticulum (ER): How diverse mechanisms segregate the many functions of the ER. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2011, 1813, 1893-1905.	4.1	110
21	Real-Time Imaging of Mitochondrial ATP Dynamics Reveals the Metabolic Setting of Single Cells. <i>Cell Reports</i> , 2018, 25, 501-512.e3.	6.4	91
22	Mechanistic Connections between Endoplasmic Reticulum (ER) Redox Control and Mitochondrial Metabolism. <i>Cells</i> , 2019, 8, 1071.	4.1	84
23	Basolateral Sorting of Furin in MDCK Cells Requires a Phenylalanine-Isoleucine Motif Together with an Acidic Amino Acid Cluster. <i>Molecular and Cellular Biology</i> , 1999, 19, 3136-3144.	2.3	78
24	Endoplasmic reticulum chaperones tweak the mitochondrial calcium rheostat to control metabolism and cell death. <i>Cell Calcium</i> , 2018, 70, 64-75.	2.4	77
25	Mechanisms of cytosolic targeting of matrix metalloproteinase-2. <i>Journal of Cellular Physiology</i> , 2012, 227, 3397-3404.	4.1	68
26	Plastic mitochondria-endoplasmic reticulum (ER) contacts use chaperones and tethers to mould their structure and signaling. <i>Current Opinion in Cell Biology</i> , 2018, 53, 61-69.	5.4	67
27	Of yeast, mice and men: MAMs come in two flavors. <i>Biology Direct</i> , 2017, 12, 3.	4.6	60
28	Redox signals at the ER-mitochondria interface control melanoma progression. <i>EMBO Journal</i> , 2019, 38, e100871.	7.8	59
29	Rab32 connects ER stress to mitochondrial defects in multiple sclerosis. <i>Journal of Neuroinflammation</i> , 2017, 14, 19.	7.2	53
30	Over Six Decades of Discovery and Characterization of the Architecture at Mitochondria-Associated Membranes (MAMs). <i>Advances in Experimental Medicine and Biology</i> , 2017, 997, 13-31.	1.6	52
31	Two Conserved Cysteine Triads in Human Ero1 $\beta$ Cooperate for Efficient Disulfide Bond Formation in the Endoplasmic Reticulum. <i>Journal of Biological Chemistry</i> , 2004, 279, 30047-30052.	3.4	51
32	IgM polymerization inhibits the Golgi-mediated processing of the $\beta$ 4-chain carboxy-terminal glycans. <i>Molecular Immunology</i> , 1996, 33, 15-24.	2.2	49
33	Rab proteins of the endoplasmic reticulum: functions and interactors. <i>Biochemical Society Transactions</i> , 2012, 40, 1426-1432.	3.4	48
34	Transit of H <sub>2</sub> O <sub>2</sub> across the endoplasmic reticulum membrane is not sluggish. <i>Free Radical Biology and Medicine</i> , 2016, 94, 157-160.	2.9	48
35	Organelle communication: Signaling crossroads between homeostasis and disease. <i>International Journal of Biochemistry and Cell Biology</i> , 2014, 50, 55-59.	2.8	46
36	Caveolin-1 impairs PKA-DRP1-mediated remodelling of ER-mitochondria communication during the early phase of ER stress. <i>Cell Death and Differentiation</i> , 2019, 26, 1195-1212.	11.2	46

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37	Endoplasmic Reticulum Chaperones and Oxidoreductases: Critical Regulators of Tumor Cell Survival and Immunorecognition. <i>Frontiers in Oncology</i> , 2014, 4, 291.	2.8	41
38	Cancer: Untethering Mitochondria from the Endoplasmic Reticulum?. <i>Frontiers in Oncology</i> , 2017, 7, 105.	2.8	39
39	Hax-1: a regulator of calcium signaling and apoptosis progression with multiple roles in human disease. <i>Expert Opinion on Therapeutic Targets</i> , 2011, 15, 741-751.	3.4	34
40	Granule-Derived Granzyme B Mediates the Vulnerability of Human Neurons to T Cell-Induced Neurotoxicity. <i>Journal of Immunology</i> , 2011, 187, 4861-4872.	0.8	34
41	ER-luminal thiol/selenol-mediated regulation of Ca <sup>2+</sup> signalling. <i>Biochemical Society Transactions</i> , 2016, 44, 452-459.	3.4	34
42	Organelle Communication at Membrane Contact Sites (MCS): From Curiosity to Center Stage in Cell Biology and Biomedical Research. <i>Advances in Experimental Medicine and Biology</i> , 2017, 997, 1-12.	1.6	34
43	A di-arginine motif contributes to the ER localization of the type I transmembrane ER oxidoreductase TMX4. <i>Biochemical Journal</i> , 2010, 425, 195-208.	3.7	33
44	The ER chaperone calnexin controls mitochondrial positioning and respiration. <i>Science Signaling</i> , 2020, 13, .	3.6	32
45	Caught in the act – protein adaptation and the expanding roles of the PACS proteins in tissue homeostasis and disease. <i>Journal of Cell Science</i> , 2017, 130, 1865-1876.	2.0	31
46	Increased ER-mitochondrial coupling promotes mitochondrial respiration and bioenergetics during early phases of ER stress. <i>Journal of Cell Science</i> , 2011, 124, 2511-2511.	2.0	30
47	Interaction with the effector dynamin-related protein 1 (Drp1) is an ancient function of Rab32 subfamily proteins. <i>Cellular Logistics</i> , 2014, 4, e986399.	0.9	27
48	Amyotrophic Lateral Sclerosis (ALS): Stressed by Dysfunctional Mitochondria-Endoplasmic Reticulum Contacts (MERCs). <i>Cells</i> , 2021, 10, 1789.	4.1	23
49	Endoplasmic reticulum-mitochondria interplay in chronic pain: The calcium connection. <i>Molecular Pain</i> , 2020, 16, 174480692094688.	2.1	21
50	Endoplasmic reticulum stress in the dorsal root ganglia regulates large-conductance potassium channels and contributes to pain in a model of multiple sclerosis. <i>FASEB Journal</i> , 2020, 34, 12577-12598.	0.5	20
51	Redox dependence of endoplasmic reticulum (ER) Ca <sup>2+</sup> signaling. <i>Histology and Histopathology</i> , 2014, 29, 543-52.	0.7	18
52	The Oscillation Amplitude, Not the Frequency of Cytosolic Calcium, Regulates Apoptosis Induction. <i>IScience</i> , 2020, 23, 101671.	4.1	14
53	Rab32 uses its effector reticulon 3L to trigger autophagic degradation of mitochondria-associated membrane (MAM) proteins. <i>Biology Direct</i> , 2021, 16, 22.	4.6	9
54	Expression of a T39N mutant Rab32 protein arrests mitochondria movement within neurites of differentiated SH-SY5Y cells. <i>Small GTPases</i> , 2020, 11, 289-292.	1.6	6

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55	Post-Translational Modification of Cysteines: A Key Determinant of Endoplasmic Reticulum-Mitochondria Contacts (MERCs). <i>Contact</i> (Thousand Oaks (Ventura County, Calif )), 2021, 4, 251525642110012.	1.3	5
56	S-Palmitoylation of calcineurin $\hat{2}1$ connects cellular $Ca^{2+}$ homeostasis to phosphatidylinositol 4-kinase activity at the plasma membrane. <i>Cell Calcium</i> , 2022, 103, 102545.	2.4	1
57	Analysis of mitochondrial MMP $\hat{e}2$ and MMP $\hat{e}9$ in the heart. <i>FASEB Journal</i> , 2013, 27, 1129.10.	0.5	0