

Markus Waldeck-Weiermair

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

2,428
citations

186265
28
h-index

206112
48
g-index

55
all docs

55
docs citations

55
times ranked

3573
citing authors

#	ARTICLE	IF	CITATIONS
1	Metabolomic and transcriptomic signatures of chemogenetic heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2022, 322, H451-H465.	3.2	14
2	MICU1 controls spatial membrane potential gradients and guides Ca ²⁺ fluxes within mitochondrial substructures. <i>Communications Biology</i> , 2022, 5, .	4.4	11
3	Assessment of Mitochondrial Ca ²⁺ Uptake. <i>Methods in Molecular Biology</i> , 2021, 2276, 173-191.	0.9	0
4	AQP8 is a crucial H ₂ O ₂ transporter in insulin-producing RINm5F cells. <i>Redox Biology</i> , 2021, 43, 101962.	9.0	26
5	The importance of aquaporin-8 for cytokine-mediated toxicity in rat insulin-producing cells. <i>Free Radical Biology and Medicine</i> , 2021, 174, 135-143.	2.9	8
6	Dissecting in vivo and in vitro redox responses using chemogenetics. <i>Free Radical Biology and Medicine</i> , 2021, 177, 360-369.	2.9	14
7	The contribution of uncoupling protein 2 to mitochondrial Ca ²⁺ homeostasis in health and disease – A short revisit. <i>Mitochondrion</i> , 2020, 55, 164-173.	3.4	15
8	Differential endothelial signaling responses elicited by chemogenetic H ₂ O ₂ synthesis. <i>Redox Biology</i> , 2020, 36, 101605.	9.0	24
9	Glycogen Synthase Kinase 3 Beta Controls Presenilin-1-Mediated Endoplasmic Reticulum Ca ²⁺ Leak Directed to Mitochondria in Pancreatic Islets and beta-Cells. <i>Cellular Physiology and Biochemistry</i> , 2019, 52, 57-75.	1.6	25
10	MICU1 controls cristae junction and spatially anchors mitochondrial Ca ²⁺ uniporter complex. <i>Nature Communications</i> , 2019, 10, 3732.	12.8	90
11	Development and Application of Sub-Mitochondrial Targeted Ca ²⁺ Biosensors. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 449.	3.7	11
12	Live cell imaging of signaling and metabolic activities. , 2019, 202, 98-119.		41
13	Live-Cell Imaging of Physiologically Relevant Metal Ions Using Genetically Encoded FRET-Based Probes. <i>Cells</i> , 2019, 8, 492.	4.1	71
14	pH-Lemon, a Fluorescent Protein-Based pH Reporter for Acidic Compartments. <i>ACS Sensors</i> , 2019, 4, 883-891.	7.8	99
15	Visualization of Sirtuin 4 Distribution between Mitochondria and the Nucleus, Based on Bimolecular Fluorescence Self-Complementation. <i>Cells</i> , 2019, 8, 1583.	4.1	20
16	Enhanced inter-compartmental Ca ²⁺ flux modulates mitochondrial metabolism and apoptotic threshold during aging. <i>Redox Biology</i> , 2019, 20, 458-466.	9.0	50
17	Presenilin-1 Established ER-Ca ²⁺ Leak: a Follow Up on Its Importance for the Initial Insulin Secretion in Pancreatic Islets and β^2 -Cells Upon Elevated Glucose. <i>Cellular Physiology and Biochemistry</i> , 2019, 53, 573-586.	1.6	15
18	Genetic biosensors for imaging nitric oxide in single cells. <i>Free Radical Biology and Medicine</i> , 2018, 128, 50-58.	2.9	36

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19	Sustained Formation of Nitroglycerin-Derived Nitric Oxide by Aldehyde Dehydrogenase-2 in Vascular Smooth Muscle without Added Reductants: Implications for the Development of Nitrate Tolerance. <i>Molecular Pharmacology</i> , 2018, 93, 335-343.	2.3	7
20	Intracellular Ca ²⁺ release decelerates mitochondrial cristae dynamics within the junctions to the endoplasmic reticulum. <i>Pflugers Archiv European Journal of Physiology</i> , 2018, 470, 1193-1203.	2.8	24
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	High-Resolution Imaging of STIM/Orai Subcellular Localization Using Array Confocal Laser Scanning Microscopy. <i>Methods in Molecular Biology</i> , 2018, 1843, 175-187.	0.9	1
23	Targeting Mitochondria to Counteract Age-Related Cellular Dysfunction. <i>Genes</i> , 2018, 9, 165.	2.4	40
24	Intact mitochondrial Ca ²⁺ uniport is essential for agonist-induced activation of endothelial nitric oxide synthase (eNOS). <i>Free Radical Biology and Medicine</i> , 2017, 102, 248-259.	2.9	28
25	Application of Genetically Encoded Fluorescent Nitric Oxide (NO•) Probes, the geNOps, for Real-time Imaging of NO• Signals in Single Cells. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	16
26	Real-time visualization of distinct nitric oxide generation of nitric oxide synthase isoforms in single cells. <i>Nitric Oxide - Biology and Chemistry</i> , 2017, 70, 59-67.	2.7	22
27	Novel genetically encoded fluorescent probes enable real-time detection of potassium in vitro and in vivo. <i>Nature Communications</i> , 2017, 8, 1422.	12.8	130
28	UCP2 and PRMT1 are key prognostic markers for lung carcinoma patients. <i>Oncotarget</i> , 2017, 8, 80278-80285.	1.8	20
29	Development of novel FP-based probes for live-cell imaging of nitric oxide dynamics. <i>Nature Communications</i> , 2016, 7, 10623.	12.8	84
30	Resveratrol Specifically Kills Cancer Cells by a Devastating Increase in the Ca ²⁺ Coupling Between the Greatly Tethered Endoplasmic Reticulum and Mitochondria. <i>Cellular Physiology and Biochemistry</i> , 2016, 39, 1404-1420.	1.6	84
31	Formation of Nitric Oxide by Aldehyde Dehydrogenase-2 Is Necessary and Sufficient for Vascular Bioactivation of Nitroglycerin. <i>Journal of Biological Chemistry</i> , 2016, 291, 24076-24084.	3.4	31
32	PRMT1-mediated methylation of MICU1 determines the UCP2/3 dependency of mitochondrial Ca ²⁺ uptake in immortalized cells. <i>Nature Communications</i> , 2016, 7, 12897.	12.8	59
33	Filling a GAP• An Optimized Probe for ER Ca ²⁺ Imaging In•Vivo. <i>Cell Chemical Biology</i> , 2016, 23, 641-643.	5.2	2
34	Rearrangement of MICU1 multimers for activation of MCU is solely controlled by cytosolic Ca ²⁺ . <i>Scientific Reports</i> , 2015, 5, 15602.	3.3	45
35	Generation of Red-Shifted Cameleons for Imaging Ca ²⁺ Dynamics of the Endoplasmic Reticulum. <i>Sensors</i> , 2015, 15, 13052-13068.	3.8	26
36	UCP2 modulates single-channel properties of a MCU-dependent Ca ²⁺ inward current in mitochondria. <i>Pflugers Archiv European Journal of Physiology</i> , 2015, 467, 2509-2518.	2.8	28

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37	Assessment of Mitochondrial Ca ²⁺ Uptake. <i>Methods in Molecular Biology</i> , 2015, 1264, 421-439.	0.9	4
38	TRPV1 mediates cellular uptake of anandamide and thus promotes endothelial cell proliferation and network-formation. <i>Biology Open</i> , 2014, 3, 1164-1172.	1.2	43
39	ATP increases within the lumen of the endoplasmic reticulum upon intracellular Ca ²⁺ release. <i>Molecular Biology of the Cell</i> , 2014, 25, 368-379.	2.1	65
40	Mitochondrial Ca ²⁺ uniporter (MCU)-dependent and MCU-independent Ca ²⁺ channels coexist in the inner mitochondrial membrane. <i>Pflügers Archiv European Journal of Physiology</i> , 2014, 466, 1411-1420.	2.8	29
41	Inositol-1,4,5-trisphosphate (IP3)-mediated STIM1 oligomerization requires intact mitochondrial Ca ²⁺ uptake. <i>Journal of Cell Science</i> , 2014, 127, 2944-55.	2.0	50
42	Molecularly Distinct Routes of Mitochondrial Ca ²⁺ Uptake Are Activated Depending on the Activity of the Sarco/Endoplasmic Reticulum Ca ²⁺ ATPase (SERCA). <i>Journal of Biological Chemistry</i> , 2013, 288, 15367-15379.	3.4	34
43	Mitochondrial Ca ²⁺ uptake 1 (MICU1) and mitochondrial Ca ²⁺ uniporter (MCU) contribute to metabolism-secretion coupling in clonal pancreatic β -cells. <i>Journal of Biological Chemistry</i> , 2012, 287, 42453.	3.4	2
44	Inhibition of Autophagy Rescues Palmitic Acid-induced Necroptosis of Endothelial Cells. <i>Journal of Biological Chemistry</i> , 2012, 287, 21110-21120.	3.4	118
45	Mitochondrial Ca ²⁺ Uptake 1 (MICU1) and Mitochondrial Ca ²⁺ Uniporter (MCU) Contribute to Metabolism-Secretion Coupling in Clonal Pancreatic β -Cells. <i>Journal of Biological Chemistry</i> , 2012, 287, 34445-34454.	3.4	120
46	Spatiotemporal Correlations between Cytosolic and Mitochondrial Ca ²⁺ Signals Using a Novel Red-Shifted Mitochondrial Targeted Cameleon. <i>PLoS ONE</i> , 2012, 7, e45917.	2.5	41
47	Endothelial mitochondria—less respiration, more integration. <i>Pflügers Archiv European Journal of Physiology</i> , 2012, 464, 63-76.	2.8	96
48	Studying mitochondrial Ca ²⁺ uptake — A revisit. <i>Molecular and Cellular Endocrinology</i> , 2012, 353, 114-127.	3.2	48
49	Leucine Zipper EF Hand-containing Transmembrane Protein 1 (Letm1) and Uncoupling Proteins 2 and 3 (UCP2/3) Contribute to Two Distinct Mitochondrial Ca ²⁺ Uptake Pathways. <i>Journal of Biological Chemistry</i> , 2011, 286, 28444-28455.	3.4	86
50	The contribution of UCP2 and UCP3 to mitochondrial Ca ²⁺ uptake is differentially determined by the source of supplied Ca ²⁺ . <i>Cell Calcium</i> , 2010, 47, 433-440.	2.4	59
51	Uncoupling protein 3 adjusts mitochondrial Ca ²⁺ uptake to high and low Ca ²⁺ signals. <i>Cell Calcium</i> , 2010, 48, 288-301.	2.4	30
52	GPR55—dependent and —independent ion signalling in response to lysophosphatidylinositol in endothelial cells. <i>British Journal of Pharmacology</i> , 2010, 161, 308-320.	5.4	59
53	Mitochondrial Ca ²⁺ uptake and not mitochondrial motility is required for STIM1-Orai1-dependent store-operated Ca ²⁺ entry. <i>Journal of Cell Science</i> , 2010, 123, 2553-2564.	2.0	76
54	Integrin clustering enables anandamide-induced Ca ²⁺ signaling in endothelial cells via GPR55 by protection against CB1-receptor-triggered repression. <i>Journal of Cell Science</i> , 2008, 121, 1704-1717.	2.0	160