

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 | 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 |
| 2 | 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 |
| 3 | Mitochondrial Ca ²⁺ Uptake 1 (MICU1) and Mitochondrial Ca ²⁺ Uniporter (MCU) Contribute to Metabolism-Secretion Coupling in Clonal Pancreatic I ² -Cells. <i>Journal of Biological Chemistry</i> , 2012, 287, 34445-34454. | 3.4 | 120 |
| 4 | Inhibition of Autophagy Rescues Palmitic Acid-induced Necroptosis of Endothelial Cells. <i>Journal of Biological Chemistry</i> , 2012, 287, 21110-21120. | 3.4 | 118 |
| 5 | pH-Lemon, a Fluorescent Protein-Based pH Reporter for Acidic Compartments. <i>ACS Sensors</i> , 2019, 4, 883-891. | 7.8 | 99 |
| 6 | Endothelial mitochondria are less respiring, more integrated. <i>Pflügers Archiv European Journal of Physiology</i> , 2012, 464, 63-76. | 2.8 | 96 |
| 7 | 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 |
| 8 | MICU1 controls cristae junction and spatially anchors mitochondrial Ca ²⁺ uniporter complex. <i>Nature Communications</i> , 2019, 10, 3732. | 12.8 | 90 |
| 9 | 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 |
| 10 | Development of novel FP-based probes for live-cell imaging of nitric oxide dynamics. <i>Nature Communications</i> , 2016, 7, 10623. | 12.8 | 84 |
| 11 | 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 |
| 12 | 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 |
| 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 | 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 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

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|----|---|-----|-----------|
| 19 | 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 |
| 20 | Studying mitochondrial Ca ²⁺ uptake – A revisit. <i>Molecular and Cellular Endocrinology</i> , 2012, 353, 114-127. | 3.2 | 48 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | Live cell imaging of signaling and metabolic activities. , 2019, 202, 98-119. | | 41 |
| 25 | Targeting Mitochondria to Counteract Age-Related Cellular Dysfunction. <i>Genes</i> , 2018, 9, 165. | 2.4 | 40 |
| 26 | Genetic biosensors for imaging nitric oxide in single cells. <i>Free Radical Biology and Medicine</i> , 2018, 128, 50-58. | 2.9 | 36 |
| 27 | 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 |
| 28 | 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 |
| 29 | 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 |
| 30 | 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 |
| 31 | UCP2 modulates single-channel properties of a MCU-dependent Ca ²⁺ inward current in mitochondria. <i>Pflügers Archiv European Journal of Physiology</i> , 2015, 467, 2509-2518. | 2.8 | 28 |
| 32 | 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 |
| 33 | Generation of Red-Shifted Cameleons for Imaging Ca ²⁺ Dynamics of the Endoplasmic Reticulum. <i>Sensors</i> , 2015, 15, 13052-13068. | 3.8 | 26 |
| 34 | AQP8 is a crucial H ₂ O ₂ transporter in insulin-producing RINm5F cells. <i>Redox Biology</i> , 2021, 43, 101962. | 9.0 | 26 |
| 35 | 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 |
| 36 | Intracellular Ca ²⁺ release decelerates mitochondrial cristae dynamics within the junctions to the endoplasmic reticulum. <i>Pflügers Archiv European Journal of Physiology</i> , 2018, 470, 1193-1203. | 2.8 | 24 |

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|----|---|-----|-----------|
| 37 | Differential endothelial signaling responses elicited by chemogenetic H ₂ O ₂ synthesis. <i>Redox Biology</i> , 2020, 36, 101605. | 9.0 | 24 |
| 38 | 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 |
| 39 | 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 |
| 40 | UCP2 and PRMT1 are key prognostic markers for lung carcinoma patients. <i>Oncotarget</i> , 2017, 8, 80278-80285. | 1.8 | 20 |
| 41 | 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 |
| 42 | The contribution of uncoupling protein 2 to mitochondrial Ca ²⁺ homeostasis in health and disease â€œ A short revisit. <i>Mitochondrion</i> , 2020, 55, 164-173. | 3.4 | 15 |
| 43 | Presenilin-1 Established ER-Ca ²⁺ Leak: a Follow Up on Its Importance for the Initial Insulin Secretion in Pancreatic Islets and Î ² -Cells Upon Elevated Glucose. <i>Cellular Physiology and Biochemistry</i> , 2019, 53, 573-586. | 1.6 | 15 |
| 44 | Dissecting in vivo and in vitro redox responses using chemogenetics. <i>Free Radical Biology and Medicine</i> , 2021, 177, 360-369. | 2.9 | 14 |
| 45 | 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 |
| 46 | Development and Application of Sub-Mitochondrial Targeted Ca ²⁺ Biosensors. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 449. | 3.7 | 11 |
| 47 | MICU1 controls spatial membrane potential gradients and guides Ca ²⁺ fluxes within mitochondrial substructures. <i>Communications Biology</i> , 2022, 5, . | 4.4 | 11 |
| 48 | 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 |
| 49 | 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 |
| 50 | Assessment of Mitochondrial Ca ²⁺ Uptake. <i>Methods in Molecular Biology</i> , 2015, 1264, 421-439. | 0.9 | 4 |
| 51 | Mitochondrial Ca ²⁺ uptake 1 (MICU1) and mitochondrial Ca ²⁺ uniporter (MCU) contribute to metabolism-secretion coupling in clonal pancreatic Î ² -cells.. <i>Journal of Biological Chemistry</i> , 2012, 287, 42453. | 3.4 | 2 |
| 52 | Filling a GAPâ€œ An Optimized Probe for ER Ca ²⁺ Imaging InÂVivo. <i>Cell Chemical Biology</i> , 2016, 23, 641-643. | 5.2 | 2 |
| 53 | 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 |
| 54 | Assessment of Mitochondrial Ca ²⁺ Uptake. <i>Methods in Molecular Biology</i> , 2021, 2276, 173-191. | 0.9 | 0 |