# Klaus Groschner

List of Publications by Year
in descending order

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|---|---|---|---|
| 169 papers | 6,474 citations | 57631 44 h-index | 74018 75 g-index |
| 178 all docs | 178 docs citations | 178 times ranked | 5355 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Two-Dimensional Interfacial Exchange Diffusion Has the Potential to Augment Spatiotemporal Precision of Ca2+ Signaling. International Journal of Molecular Sciences, 2022, 23, 850. | 1.8 | 1 |
| 2 | Diacylglycerols interact with the L2 lipidation site in TRPC3 to induce a sensitized channel state. EMBO Reports, 2022, 23, . | 2.0 | 11 |
| 3 | Characterization of DAG Binding to TRPC Channels by Target-Dependent cisâ€“trans Isomerization of OptoDArG. Biomolecules, 2022, 12, 799. | 1.8 | 7 |
| 4 | Exploring TRPC3 Interaction with Cholesterol through Coarse-Grained Molecular Dynamics Simulations. Biomolecules, 2022, 12, 890. | 1.8 | 1 |
| 5 | Potassium ions promote hexokinase-II dependent glycolysis. IScience, 2021, 24, 102346. | 1.9 | 12 |
| 6 | Ethnic Differences in Serum Levels of microRNAs Potentially Regulating Alcohol Dehydrogenase 1B and Aldehyde Dehydrogenase 2. Journal of Clinical Medicine, 2021, 10, 3678. | 1.0 | 1 |
| 7 | TRPC3, an underestimated, universal pacemaker channel?. Cell Calcium, 2021, 100, 102484. | 1.1 | 1 |
| 8 | Mechanisms and significance of Ca2+ entry through TRPC channels. Current Opinion in Physiology, 2020, 17, 25-33. | 0.9 | 9 |
| 9 | All-Optical Analysis of TRPC3/6 Signalling in Mast Cells. Biophysical Journal, 2020, 118, 415a. | 0.2 | 0 |
| 10 | Blood levels of microRNAs associated with ischemic heart disease differ between Austrians and Japanese: a pilot study. Scientific Reports, 2020, 10, 13628. | 1.6 | 11 |
| 11 | Pharmaco-Optogenetic Targeting of TRPC Activity Allows for Precise Control Over Mast Cell NFAT Signaling. Frontiers in Immunology, 2020, 11, 613194. | 2.2 | 0 |
| 12 | Light-Mediated Control over TRPC3-Mediated NFAT Signaling. Cells, 2020, 9, 556. | 1.8 | 6 |
| 13 | TRIC-A shapes oscillatory Ca2+ signals by interaction with STIM1/Orai1 complexes. PLoS Biology, 2020, 18, e3000700. | 2.6 | 12 |
| 14 | Lipid-independent control of endothelial and neuronal TRPC3 channels by light. Chemical Science, 2019, 10, 2837-2842. | 3.7 | 28 |
| 15 | Agonist-Dependent Plasticity in the TRPC3 Selectivity Filter. Biophysical Journal, 2019, 116, 536a. | 0.2 | 0 |
| 16 | A novel STIM1-Orai1 gating interface essential for CRAC channel activation. Cell Calcium, 2019, 79, 57-67. | 1.1 | 44 |
| 17 | TRPC-mediated Ca2+ signaling and control of cellular functions. Seminars in Cell and Developmental Biology, 2019, 94, 28-39. | 2.3 | 24 |
| 18 | Photopharmacology and opto-chemogenetics of TRPC channels-some therapeutic visions. , 2019, 200, 13-26. | | 15 |

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| 19 | A single point mutation in the TRPC3 lipid-recognition window generates supersensitivity to benzimidazole channel activators. Cell Calcium, 2019, 79, 27-34. | 1.1 | 13 |
| 20 | STIM1 and Orai1 regulate Ca2+ microdomains for activation of transcription. Biochimica Et Biophysica Acta - Molecular Cell Research, 2019, 1866, 1079-1091. | 1.9 | 13 |
| 21 | An optically controlled probe identifies lipid-gating fenestrations within the TRPC3 channel. Nature Chemical Biology, 2018, 14, 396-404. | 3.9 | 85 |
| 22 | Photoswitchable Diacylglycerols Identify a Novel Lipid-Gating Mechanism in TRPC3 Channels. Biophysical Journal, 2018, 114, 641a. | 0.2 | 0 |
| 23 | TRPC3 as a Target of Novel Therapeutic Interventions. Cells, 2018, 7, 83. | 1.8 | 40 |
| 24 | Revelation of an enigmatic signaling machineryâ€"First insights into the mammalian TRPC architecture. Cell Calcium, 2018, 74, 144-146. | 1.1 | 6 |
| 25 | Na +/Ca2+ exchangers and Orai channels jointly refill endoplasmic reticulum (ER) Ca2+ via ER nanojunctions in vascular endothelial cells. Pflugers Archiv European Journal of Physiology, 2017, 469, 1287-1299. | 1.3 | 17 |
| 26 | Photopharmacological Modulation of Lipid-Gated TRPC Channels as a Strategy to Govern Neuronal Excitability. Biophysical Journal, 2017, 112, 467a. | 0.2 | 0 |
| 27 | Intensified Microwave-Assisted N-Acylation Procedure â€“ Synthesis and Activity Evaluation of TRPC3 Channel Agonists with a 1,3-Dihydro-2H-benzo[d]imidazol-2-one Core. Synlett, 2017, 28, 695-700. | 1.0 | 9 |
| 28 | Cardiovascular and Hemostatic Disorders: SOCE in Cardiovascular Cells: Emerging Targets for Therapeutic Intervention. Advances in Experimental Medicine and Biology, 2017, 993, 473-503. | 0.8 | 11 |
| 29 | Dipeptidyl peptidase-4 independent cardiac dysfunction links saxagliptin to heart failure. Biochemical Pharmacology, 2017, 145, 64-80. | 2.0 | 33 |
| 30 | Transmembrane helix connectivity in Orai1 controls two gates for calcium-dependent transcription. Science Signaling, 2017, 10, . | 1.6 | 68 |
| 31 | Novel genetically encoded fluorescent probes enable real-time detection of potassium in vitro and in vivo. Nature Communications, 2017, 8, 1422. | 5.8 | 130 |
| 32 | Non-Orai Partners of STIM Proteins. , 2017, , 177-196. | | 2 |
| 33 | Pharmacological Characterization of the Native Store-Operated Calcium Channels of Cortical Neurons from Embryonic Mouse Brain. Frontiers in Pharmacology, 2016, 7, 486. | 1.6 | 26 |
| 34 | Live-cell imaging of ER-PM contact architecture by a novel TIRFM approach reveals extension of junctions in response to store-operated Ca2+-entry. Scientific Reports, 2016, 6, 35656. | 1.6 | 58 |
| 35 | Modulation of Neuronal Activity by Synthetic Activators of Lipid-Gated TRPC Channels. Biophysical Journal, 2016, 110, 610a. | 0.2 | 0 |
| 36 | Fluorescence Density Mapping: Extending the Possibilities of TIRFM to Study PM-ER Junctions. Biophysical Journal, 2016, 110, 16a. | 0.2 | 0 |

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| 37 | TRPC3-Calcineurin Microdomains Govern Orai1 Signaling in Mast Cells. Biophysical Journal, 2016, 110, 610a. | 0.2 | 0 |
| 38 | Mechanisms of lipid regulation and lipid gating in TRPC channels. Cell Calcium, 2016, 59, 271-279. | 1.1 | 30 |
| 39 | Functional impairment of endothelial cells by the antimycotic amphotericin B. Biochemical and Biophysical Research Communications, 2016, 472, 40-45. | 1.0 | 3 |
| 40 | Reprint of â€œMechanisms of lipid regulation and lipid gating in TRPC channelsâ€• Cell Calcium, 2016, 60, 133-141. | 1.1 | 5 |
| 41 | Optopharmacological control of TRPC channels by coumarin-caged lipids is associated with a phototoxic membrane effect. Science China Life Sciences, 2016, 59, 802-810. | 2.3 | 6 |
| 42 | Cholesterol modulates Orai1 channel function. Science Signaling, 2016, 9, ra10. | 1.6 | 80 |
| 43 | Identification of an Essential Structural Element of Lipid Gating Mechanism in the Transient Receptor Potential Canonical Channel Type 3 (TRPC3). Biophysical Journal, 2015, 108, 282a. | 0.2 | 0 |
| 44 | Piezo1 forms mechanosensitive ion channels in the human MCF-7 breast cancer cell line. Scientific Reports, 2015, 5, 8364. | 1.6 | 122 |
| 45 | TRPC3 contributes to regulation of cardiac contractility and arrhythmogenesis by dynamic interaction with NCX1. Cardiovascular Research, 2015, 106, 163-173. | 1.8 | 69 |
| 46 | Localization of VE-cadherin in plasmalemmal cholesterol rich microdomains and the effects of cholesterol depletion on VE-cadherin mediated cellâ€“cell adhesion. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2014, 1841, 1725-1732. | 1.2 | 7 |
| 47 | Urocortin 2 stimulates nitric oxide production in ventricular myocytes via Akt- and PKA-mediated phosphorylation of eNOS at serine 1177. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 307, H689-H700. | 1.5 | 24 |
| 48 | Contribution of TRPC3 to Store-Operated Calcium Entry and Inflammatory Transductions in Primary Nociceptors. Molecular Pain, 2014, 10, 1744-8069-10-43. | 1.0 | 48 |
| 49 | 15-deoxy-Î”12,14-PGJ2 promotes inflammation and apoptosis in cardiomyocytes via the DP2/MAPK/TNFÎ± axis. International Journal of Cardiology, 2014, 173, 472-480. | 0.8 | 29 |
| 50 | TRPC3 Modulates Association of Orai1 with Immunophilin FKBP12 and Orai-Mediated Ca2+-Transcription Coupling in Mast Cells. Biophysical Journal, 2014, 106, 755a. | 0.2 | 0 |
| 51 | Allosteric Coupling Between Gate and Selectivity Filter in TRPC3. Biophysical Journal, 2014, 106, 336a. | 0.2 | 0 |
| 52 | TRPC3: A Multifunctional Signaling Molecule. Handbook of Experimental Pharmacology, 2014, 222, 67-84. | 0.9 | 25 |
| 53 | Role of TRPC and Orai Channels in Vascular Remodeling. , 2014, , 463-490. | | 0 |
| 54 | Remodelling of the Cardiac NCX1-TRPC3 Signaling Complex Promotes Angiotensin Ii-Induced Arrhythmogenesis. Biophysical Journal, 2013, 104, 294a. | 0.2 | 0 |

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| 55 | Bile acids induce arrhythmias in human atrial myocardiumâ€"implications for altered serum bile acid composition in patients with atrial fibrillation. Heart, 2013, 99, 1685-1692. | 1.2 | 73 |
| 56 | TRPC 1 acts as a Negative Regulator for TRPV6 Mediated Ca2+ Influx. Biophysical Journal, 2013, 104, 457a. | 0.2 | 0 |
| 57 | Stretch-Induced Activation of NFAT Signaling in Hl-1 Cardiomyocytes. Biophysical Journal, 2013, 104, 455a. | 0.2 | 0 |
| 58 | TRPC3 Channels in Angiotensin II-Induced Calcium- Dependent Arrhythmias in Mouse and Human Cardiomyocytes. Biophysical Journal, 2013, 104, 434a. | 0.2 | 0 |
| 59 | A novel homology model of TRPC3 reveals allosteric coupling between gate and selectivity filter. Cell Calcium, 2013, 54, 175-185. | 1.1 | 25 |
| 60 | Enhanced Ca<sup>2+</sup>Entry and Tyrosine Phosphorylation Mediate Nanostructure-Induced Endothelial Proliferation. Journal of Nanomaterials, 2013, 2013, 1-10. | 1.5 | 10 |
| 61 | Inhibition of Orai1-mediated Ca<sup>2+</sup> entry is a key mechanism of the antiproliferative action of sirolimus in human arterial smooth muscle. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 305, H1646-H1657. | 1.5 | 17 |
| 62 | A TRPC3 Blocker, Ethyl-1-(4-(2,3,3-Trichloroacrylamide)Phenyl)-5-(Trifluoromethyl)-1H-Pyrazole-4-Carboxylate (Pyr3), Prevents Stent-Induced Arterial Remodeling. Journal of Pharmacology and Experimental Therapeutics, 2013, 344, 33-40. | 1.3 | 38 |
| 63 | The Extended Transmembrane Orai1 N-terminal (ETON) Region Combines Binding Interface and Gate for Orai1 Activation by STIM1. Journal of Biological Chemistry, 2013, 288, 29025-29034. | 1.6 | 101 |
| 64 | Basic Principles of Molecular Pathophysiology and Etiology of Cardiovascular Disorders. , 2013, , 1-23. | | 0 |
| 65 | Gene Polymorphisms and Signaling Defects. , 2013, , 53-102. | | 0 |
| 66 | Canonical Transient Receptor Potential (TRPC) 1 Acts as a Negative Regulator for Vanilloid TRPV6-mediated Ca2+ Influx. Journal of Biological Chemistry, 2012, 287, 35612-35620. | 1.6 | 44 |
| 67 | Novel pyrazole compounds for pharmacological discrimination between receptorâ€operated and storeâ€operated <scp><scp>Ca<sup>2+</sup></scp></scp> entry pathways. British Journal of Pharmacology, 2012, 167, 1712-1722. | 2.7 | 160 |
| 68 | TRPC3 Expression Modulates Store-Operated Currents in RBL-2H3 Cells. Biophysical Journal, 2012, 102, 534a. | 0.2 | 0 |
| 69 | TRPC3 Overexpression Promotes AngiotensinII Induced Cardiac Dysfunction. Biophysical Journal, 2012, 102, 534a. | 0.2 | 0 |
| 70 | Nanopatterned polymer substrates promote endothelial proliferation by initiation of Î²-catenin transcriptional signaling. Acta Biomaterialia, 2012, 8, 2953-2962. | 4.1 | 35 |
| 71 | TRPC3 overexpression promotes angiotensin II-induced cardiac dysfunction. BMC Pharmacology & Toxicology, 2012, 13, . | 1.0 | 0 |
| 72 | A TRPC3 blocker, Pyr3, prevents stent-induced arterial remodeling. BMC Pharmacology & Toxicology, 2012, 13, A85. | 1.0 | 0 |

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| 73 | High-speed microwave assisted synthesis of SEA0400â€"a selective inhibitor of the Na+/Ca2+ exchanger. Tetrahedron Letters, 2012, 53, 3731-3734. | 0.7 | 13 |
| 74 | Sunitinib causes doseâ€dependent negative functional effects on myocardium and cardiomyocytes. BJU International, 2012, 110, 1455-1462. | 1.3 | 39 |
| 75 | Engineering of the TRPC3 Selectivity Filter Identifies a Unique, Dual Signaling Function of TRPC3 in the Heart. Biophysical Journal, 2011, 100, 520a. | 0.2 | 0 |
| 76 | Cooperativeness of Orai Cytosolic Domains Tunes Subtype-Specific Gating. Biophysical Journal, 2011, 100, 181a-182a. | 0.2 | 0 |
| 77 | Analysis of the Functional Determinants of Cation Permeation Through TRPC3. Biophysical Journal, 2011, 100, 105a-106a. | 0.2 | 0 |
| 78 | Analysis of the Molecular Basis of Ca2+- dependent Regulation of TRPC3 Channels. Biophysical Journal, 2011, 100, 106a. | 0.2 | 0 |
| 79 | PKC-dependent coupling of calcium permeation through transient receptor potential canonical 3 (TRPC3) to calcineurin signaling in HL-1 myocytes. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 10556-10561. | 3.3 | 79 |
| 80 | STIM1 couples to ORAI1 via an intramolecular transition into an extended conformation. EMBO Journal, 2011, 30, 1678-1689. | 3.5 | 204 |
| 81 | Novel pyrazole inhibitors for discrimination between receptor-operated and store-operated Ca2+ entry. BMC Pharmacology, 2011, 11, A18. | 0.4 | 0 |
| 82 | Cooperativeness of Orai Cytosolic Domains Tunes Subtype-specific Gating. Journal of Biological Chemistry, 2011, 286, 8577-8584. | 1.6 | 51 |
| 83 | A cardiac pathway of cyclic GMP-independent signaling of guanylyl cyclase A, the receptor for atrial natriuretic peptide. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18500-18505. | 3.3 | 48 |
| 84 | Molecular Determinants within N Terminus of Orai3 Protein That Control Channel Activation and Gating. Journal of Biological Chemistry, 2011, 286, 31565-31575. | 1.6 | 44 |
| 85 | Age-dependent associations of smoking and drinking with nonâ€"high-density lipoprotein cholesterol. Metabolism: Clinical and Experimental, 2010, 59, 1074-1081. | 1.5 | 13 |
| 86 | Molecular engineering of the TRPC3 pore structure identifies Ca2+ permeation through TRPC3 channels as a key determinant of cardiac calcineurin/NFAT signaling. BMC Pharmacology, 2010, 10, . | 0.4 | 0 |
| 87 | Cell-Cell Contact Formation Governs Ca2+ Signaling by TRPC4 in the Vascular Endothelium. Journal of Biological Chemistry, 2010, 285, 4213-4223. | 1.6 | 45 |
| 88 | Polymodal TRPC signaling. Communicative and Integrative Biology, 2010, 3, 393-395. | 0.6 | 5 |
| 89 | Trpc3-Mediated Electrical Remodeling of Cardiac Myocytes. Biophysical Journal, 2010, 98, 326a. | 0.2 | 0 |
| 90 | Conformational Rearrangement within STIM1 C-terminus Crucial for Coupling to Orai1. Biophysical Journal, 2010, 98, 676a-677a. | 0.2 | 0 |

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|---|---|---|---|
| 91 | Analysis of the Role of TRPC3 in Ca2+ Signaling of RBL-2H3 Mast Cells. Biophysical Journal, 2010, 98, 344a. | 0.2 | 0 |
| 92 | Positively Charged as Well as Hydrophobic Amino Acids in Oraisâ€™ Conserved N-Terminal Domain Contribute to Orai Function. Biophysical Journal, 2010, 98, 676a. | 0.2 | 0 |
| 93 | Regulatory Role of N-terminal Orai Domains in Current Activation. Biophysical Journal, 2010, 98, 676a. | 0.2 | 0 |
| 94 | A Cytosolic Homomerization and a Modulatory Domain within STIM1 C Terminus Determine Coupling to ORAI1 Channels. Journal of Biological Chemistry, 2009, 284, 8421-8426. | 1.6 | 289 |
| 95 | Molecular Determinants of the Coupling between STIM1 and Orai Channels. Journal of Biological Chemistry, 2009, 284, 21696-21706. | 1.6 | 140 |
| 96 | A Ca2+ Release-activated Ca2+ (CRAC) Modulatory Domain (CMD) within STIM1 Mediates Fast Ca2+-dependent Inactivation of ORAI1 Channels. Journal of Biological Chemistry, 2009, 284, 24933-24938. | 1.6 | 115 |
| 97 | Highâ€Speed Microwaveâ€Assisted Synthesis of the Trifluoromethylpyrazolâ€Derived Canonical Transient Receptor Potential (TRPC) Channel Inhibitor Pyr3. ChemMedChem, 2009, 4, 1816-1818. | 1.6 | 32 |
| 98 | Store-operated calcium entry into rat basophil leukaemia cells: contribution of TRPC3 and Orai1. BMC Pharmacology, 2009, 9, A11. | 0.4 | 0 |
| 99 | Modification of the association between alcohol drinking and non-HDL cholesterol by gender. Clinica Chimica Acta, 2009, 404, 154-159. | 0.5 | 25 |
| 100 | Plasticity in Ca <sup>2+</sup> selectivity of Orai1/Orai3 heteromeric channel. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19623-19628. | 3.3 | 61 |
| 101 | TRPC3 as a key player in electrical remodelling of atrial myocardium. BMC Pharmacology, 2008, 8, . | 0.4 | 0 |
| 102 | Identification of amino acid residues relevant for gating and permeation of the cation channel TRPC3. BMC Pharmacology, 2008, 8, . | 0.4 | 0 |
| 103 | Identification of a rare subset of adipose tissueâ€resident progenitor cells, which express CD133 and TRPC3 as a VEGFâ€regulated Ca<sup>2+</sup> entry channel. FEBS Letters, 2008, 582, 2696-2702. | 1.3 | 28 |
| 104 | The first ankyrin-like repeat is the minimum indispensable key structure for functional assembly of homo- and heteromeric TRPC4/TRPC5 channels. Cell Calcium, 2008, 43, 260-269. | 1.1 | 36 |
| 105 | Role of TRP Channels in Oxidative Stress. Novartis Foundation Symposium, 2008, , 222-235. | 1.2 | 48 |
| 106 | 2-Aminoethoxydiphenyl Borate Alters Selectivity of Orai3 Channels by Increasing Their Pore Size. Journal of Biological Chemistry, 2008, 283, 20261-20267. | 1.6 | 131 |
| 107 | Dynamic Coupling of the Putative Coiled-coil Domain of ORAI1 with STIM1 Mediates ORAI1 Channel Activation. Journal of Biological Chemistry, 2008, 283, 8014-8022. | 1.6 | 366 |
| 108 | TRPC3/6/7: Topical aspects of biophysics and pathophysiology. Channels, 2008, 2, 94-99. | 1.5 | 12 |

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| 109 | Phospholipase C-dependent control of cardiac calcium homeostasis involves a TRPC3-NCX1 signaling complex. Cardiovascular Research, 2007, 73, 111-119. | 1.8 | 84 |
| 110 | TRPC4 expression determines sensitivity of the platelet-type capacitative Ca2+entry channel to intracellular alkalosis. Platelets, 2006, 17, 454-461. | 1.1 | 10 |
| 111 | Cellular cholesterol controls TRPC3 function: evidence from a novel dominant-negative knockdown strategy. Biochemical Journal, 2006, 396, 147-155. | 1.7 | 52 |
| 112 | Dynamic but not constitutive association of calmodulin with rat TRPV6 channels enables fine tuning of Ca2+-dependent inactivation. Journal of Physiology, 2006, 577, 31-44. | 1.3 | 106 |
| 113 | Intracellular pH as a Determinant of Vascular Smooth Muscle Function. Journal of Vascular Research, 2006, 43, 238-250. | 0.6 | 40 |
| 114 | TRPC3 and TRPC4 Associate to Form a Redox-sensitive Cation Channel. Journal of Biological Chemistry, 2006, 281, 13588-13595. | 1.6 | 198 |
| 115 | Proteinâ€“Protein Interactions in TRPC Channel Complexes. Frontiers in Neuroscience, 2006, , 331-348. | 0.0 | 0 |
| 116 | TRPC3: a versatile transducer molecule that serves integration and diversification of cellular signals. Naunyn-Schmiedeberg's Archives of Pharmacology, 2005, 371, 251-256. | 1.4 | 23 |
| 117 | Na+ entry and modulation of Na+/Ca2+ exchange as a key mechanism of TRPC signaling. Pflugers Archiv European Journal of Physiology, 2005, 451, 99-104. | 1.3 | 53 |
| 118 | Molecular Analysis of a Store-operated and 2-Acetyl-sn-glycerol-sensitive Non-selective Cation Channel. Journal of Biological Chemistry, 2005, 280, 21600-21606. | 1.6 | 151 |
| 119 | Ca2+ Signaling by TRPC3 Involves Na+ Entry and Local Coupling to the Na+/Ca2+ Exchanger. Journal of Biological Chemistry, 2004, 279, 13696-13704. | 1.6 | 164 |
| 120 | Cholesterol- and caveolin-rich membrane domains are essential for phospholipase A-dependent EDHF formation. Cardiovascular Research, 2004, 64, 234-242. | 1.8 | 49 |
| 121 | CaT1 knock-down strategies fail to affect CRAC channels in mucosal-type mast cells. Journal of Physiology, 2004, 557, 121-132. | 1.3 | 41 |
| 122 | Role of TRP channels in endothelial pathophysiologyâ€"evidence for vascular TRPs as a potential target for drug therapy. International Congress Series, 2004, 1262, 137-140. | 0.2 | 0 |
| 123 | Role of TRP channels in oxidative stress. Novartis Foundation Symposium, 2004, 258, 222-30; discussion 231-5, 263-6. | 1.2 | 34 |
| 124 | Crosstalk Between Voltage-Independent Ca 2+ Channels and L-Type Ca 2+ Channels in A7r5 Vascular Smooth Muscle Cells at Elevated Intracellular pH. Circulation Research, 2003, 92, 888-896. | 2.0 | 29 |
| 125 | Vascular Actions of Anthracycline Antibiotics. Current Medicinal Chemistry, 2003, 10, 427-436. | 1.2 | 24 |
| 126 | NO and cholinergic signalling in the heart: divergent routes to regulatory phosphorylation of the cardiac L-type Ca2+ channel. Cardiovascular Research, 2003, 60, 223-225. | 1.8 | 2 |

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| 127 | Functional Consequences of P/Q-type Ca2+Channel Cav2.1 Missense Mutations Associated with Episodic Ataxia Type 2 and Progressive Ataxia. Journal of Biological Chemistry, 2002, 277, 6960-6966. | 1.6 | 94 |
| 128 | Two ways to feel the pressure: an endothelial Ca2+ entry channel with dual mechanosensitivity. Cardiovascular Research, 2002, 53, 9-11. | 1.8 | 6 |
| 129 | Store Depletion-activated CaT1 Currents in Rat Basophilic Leukemia Mast Cells Are Inhibited by 2-Aminoethoxydiphenyl Borate. Journal of Biological Chemistry, 2002, 277, 26950-26958. | 1.6 | 77 |
| 130 | Desensitization of endothelial nitric oxide synthase by receptor agonists. Biochemical Journal, 2002, 364, 863-868. | 1.7 | 7 |
| 131 | Nitric oxide inhibits capacitative Ca2+entry by suppression of mitochondrial Ca2+handling. British Journal of Pharmacology, 2002, 137, 821-830. | 2.7 | 35 |
| 132 | Extracellular pH Affects Platelet Aggregation Associated with Modulation of Store-Operated Ca2+ Entry. Thrombosis Research, 2001, 104, 353-360. | 0.8 | 59 |
| 133 | Comparison of neuronal and endothelial isoforms of nitric oxide synthase in stably transfected HEK 293 cells. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 281, H2053-H2061. | 1.5 | 16 |
| 134 | Expression of Trp3 Determines Sensitivity of Capacitative Ca2+ Entry to Nitric Oxide and Mitochondrial Ca2+ Handling. Journal of Biological Chemistry, 2001, 276, 48149-48158. | 1.6 | 28 |
| 135 | Intracellular alkalinization augments Î±1-adrenoceptor-mediated vasoconstriction by promotion of Ca2+ entry through the non-L-type Ca2+ channels. European Journal of Pharmacology, 2001, 428, 251-259. | 1.7 | 8 |
| 136 | S-Nitrosation Controls Gating and Conductance of the Î±1 Subunit of Class C L-type Ca2+ Channels. Journal of Biological Chemistry, 2001, 276, 14797-14803. | 1.6 | 57 |
| 137 | Modulation of the smooth-muscle L-type Ca2+ channel Î±1 subunit (Î±1C-b) by the Î²2a subunit: a peptide which inhibits binding of Î² to the Iâ€"II linker of Î±1 induces functional uncoupling. Biochemical Journal, 2000, 348, 657. | 1.7 | 16 |
| 138 | Modulation of the smooth-muscle L-type Ca2+ channel Î±1 subunit (Î±1C-b) by the Î²2a subunit: a peptide which inhibits binding of Î² to the Iâ€"II linker of Î±1 induces functional uncoupling. Biochemical Journal, 2000, 348, 657-665. | 1.7 | 47 |
| 139 | Molecular determinant for runâ€down of Lâ€type Ca 2+ channels localized in the carboxyl terminus of the Î± 1C subunit. Journal of Physiology, 2000, 529, 119-130. | 1.3 | 30 |
| 140 | Inhibitory effects of aclarubicin on nitric oxide production in aortic smooth muscle cells and macrophages. Biochemical Pharmacology, 2000, 59, 719-726. | 2.0 | 5 |
| 141 | I K.ACh activation by arachidonic acid occurs via a G-protein-independent pathway mediated by the GIRK1 subunit. Pflugers Archiv European Journal of Physiology, 2000, 441, 251-256. | 1.3 | 3 |
| 142 | Coassembly of Trp1 and Trp3 Proteins Generates Diacylglycerol- and Ca2+-sensitive Cation Channels. Journal of Biological Chemistry, 2000, 275, 27799-27805. | 1.6 | 264 |
| 143 | A sequence in the carboxy-terminus of the Î±1C subunit important for targeting, conductance and open probability of L-type Ca2+ channels. FEBS Letters, 2000, 477, 161-169. | 1.3 | 27 |
| 144 | Evidence for a role of Trp proteins in the oxidative stress-induced membrane conductances of porcine aortic endothelial cells. Cardiovascular Research, 1999, 42, 543-549. | 1.8 | 138 |

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| 145 | Na+/Ca2+ Exchange Facilitates Ca2+-dependent Activation of Endothelial Nitric-oxide Synthase. Journal of Biological Chemistry, 1999, 274, 29529-29535. | 1.6 | 87 |
| 146 | Current modulation and membrane targeting of the calcium channel Î±1Csubunit are independent functions of the Î² subunit. Journal of Physiology, 1999, 517, 353-368. | 1.3 | 85 |
| 147 | The cardiac acetylcholine-activated, inwardly rectifying K+-channel subunit GIRK1 gives rise to an inward current induced by free oxygen radicals. Free Radical Biology and Medicine, 1999, 26, 253-259. | 1.3 | 7 |
| 148 | Trp proteins form store-operated cation channels in human vascular endothelial cells. FEBS Letters, 1998, 437, 101-106. | 1.3 | 150 |
| 149 | Intracellular Ca2+ Inhibits Smooth Muscle L-Type Ca2+ Channels by Activation of Protein Phosphatase Type 2B and by Direct Interaction with the Channel. Journal of General Physiology, 1997, 110, 503-513. | 0.9 | 82 |
| 150 | Divergent effects of extracellular and intracellular alkalosis on Ca2+ entry pathways in vascular endothelial cells. Biochemical Journal, 1997, 323, 567-573. | 1.7 | 31 |
| 151 | Intracellular Ca2+ inactivates L-type Ca2+ channels with a Hill coefficient of approximately 1 and an inhibition constant of approximately 4 microM by reducing channel's open probability. Biophysical Journal, 1997, 73, 1857-1865. | 0.2 | 46 |
| 152 | Estimating the number of channels in patch-clamp recordings: application to kinetic analysis of multichannel data from voltage-operated channels. Biophysical Journal, 1997, 72, 1143-1152. | 0.2 | 17 |
| 153 | Essential role of the beta subunit in modulation of C-class L-type Ca2+ channels by intracellular pH. FEBS Letters, 1997, 408, 75-80. | 1.3 | 25 |
| 154 | Inhibition of a storeâ€operated Ca<sup>2+</sup> entry pathway in human endothelial cells by the isoquinoline derivative LOE 908. British Journal of Pharmacology, 1996, 119, 702-706. | 2.7 | 53 |
| 155 | NH4Cl-induced contraction of porcine coronary artery involves activation of dihydropyridine-sensitive Ca2+ entry. European Journal of Pharmacology, 1996, 299, 139-147. | 1.7 | 10 |
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