David J Beech

List of Publications by Year in descending order

185 papers	11,103 citations	23567 58 h-index	34986 98 g-index
199 all docs	199 docs citations	199 times ranked	8756 citing authors

#	Article	IF	Citations
1	Piezo1 integration of vascular architecture with physiological force. Nature, 2014, 515, 279-282.	27.8	813
2	TrpC1 Is a Membrane-Spanning Subunit of Store-Operated Ca ²⁺ Channels in Native Vascular Smooth Muscle Cells. Circulation Research, 2001, 88, 84-87.	4.5	452
3	TRPC channel activation by extracellular thioredoxin. Nature, 2008, 451, 69-72.	27.8	260
4	Critical Intracellular Ca2+ Dependence of Transient Receptor Potential Melastatin 2 (TRPM2) Cation Channel Activation. Journal of Biological Chemistry, 2003, 278, 11002-11006.	3.4	241
5	Block of TRPC5 channels by 2-aminoethoxydiphenyl borate: a differential, extracellular and voltage-dependent effect. British Journal of Pharmacology, 2005, 145, 405-414.	5.4	235
6	Non-selective cationic channels of smooth muscle and the mammalian homologues ofDrosophilaTRP. Journal of Physiology, 2004, 559, 685-706.	2.9	220
7	A diffusible second messenger mediates one of the pathways coupling receptors to calcium channels in rat sympathetic neurons. Neuron, 1991, 6, 859-867.	8.1	214
8	Attenuation of store-operated Ca ²⁺ current impairs salivary gland fluid secretion in TRPC1(â^'/â^') mice. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 17542-17547.	7.1	200
9	Piezo1 channels sense whole body physical activity to reset cardiovascular homeostasis and enhance performance. Nature Communications, 2017, 8, 350.	12.8	197
10	Upregulated TRPC1 Channel in Vascular Injury In Vivo and Its Role in Human Neointimal Hyperplasia. Circulation Research, 2006, 98, 557-563.	4.5	195
11	Cholesterol Depletion Impairs Vascular Reactivity to Endothelin-1 by Reducing Store-Operated Ca 2+ Entry Dependent on TRPC1. Circulation Research, 2003, 93, 839-847.	4.5	193
12	Pertussis toxin and voltage dependence distinguish multiple pathways modulating calcium channels of rat sympathetic neurons. Neuron, 1992, 8, 97-106.	8.1	186
13	K channel activation by nucleotide diphosphates and its inhibition by glibenclamide in vascular smooth muscle cells. British Journal of Pharmacology, 1993, 110, 573-582.	5.4	176
14	Orai1 and CRAC Channel Dependence of VEGF-Activated Ca ²⁺ Entry and Endothelial Tube Formation. Circulation Research, 2011, 108, 1190-1198.	4.5	172
15	Activation of the Cl ^{â^'} Channel ANO1 by Localized Calcium Signals in Nociceptive Sensory Neurons Requires Coupling with the IP ₃ Receptor. Science Signaling, 2013, 6, ra73.	3.6	168
16	(â^')â€Englerinâ€...A is a Potent and Selective Activator of TRPC4 and TRPC5 Calcium Channels. Angewandte Chemie - International Edition, 2015, 54, 3787-3791.	13.8	161
17	Intracellular Ca2+ buffers disrupt muscarinic suppression of Ca2+ current and M current in rat sympathetic neurons.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 652-656.	7.1	155
18	Two components of potassium current activated by depolarization of single smooth muscle cells from the rabbit portal vein.. Journal of Physiology, 1989, 418, 293-309.	2.9	154

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19	TRPC1: store-operated channel and more. Pflugers Archiv European Journal of Physiology, 2005, 451, 53-60.	2.8	152
20	A Sphingosine-1â€“Phosphate-Activated Calcium Channel Controlling Vascular Smooth Muscle Cell Motility. Circulation Research, 2006, 98, 1381-1389.	4.5	152
21	Force Sensing by Piezo Channels in Cardiovascular Health and Disease. Arteriosclerosis, Thrombosis, and Vascular Biology, 2019, 39, 2228-2239.	2.4	147
22	Plasticity of TRPC expression in arterial smooth muscle: correlation with store-operated Ca²⁺ entry. American Journal of Physiology - Cell Physiology, 2005, 288, C872-C880.	4.6	145
23	Pregnenolone Sulphate- and Cholesterol-Regulated TRPM3 Channels Coupled to Vascular Smooth Muscle Secretion and Contraction. Circulation Research, 2010, 106, 1507-1515.	4.5	134
24	Downregulated REST Transcription Factor Is a Switch Enabling Critical Potassium Channel Expression and Cell Proliferation. Molecular Cell, 2005, 20, 45-52.	9.7	133
25	Properties of the cromakalimâ€induced potassium conductance in smooth muscle cells isolated from the rabbit portal vein. British Journal of Pharmacology, 1989, 98, 851-864.	5.4	130
26	TRPC1 store-operated cationic channel subunit. Cell Calcium, 2003, 33, 433-440.	2.4	123
27	Yoda1 analogue (<scp>D</scp>ooku1) which antagonizes <scp>Y</scp>oda1â€evoked activation of <scp>P</scp>iezo1 and aortic relaxation. British Journal of Pharmacology, 2018, 175, 1744-1759.	5.4	119
28	Human TRPC5 channel activated by a multiplicity of signals in a single cell. Journal of Physiology, 2004, 559, 739-750.	2.9	117
29	Generation of functional ion-channel tools by E3 targeting. Nature Biotechnology, 2005, 23, 1289-1293.	17.5	117
30	Nox2 NADPH Oxidase Has a Critical Role in Insulin Resistanceâ€“Related Endothelial Cell Dysfunction. Diabetes, 2013, 62, 2130-2134.	0.6	117
31	Sensing of Lysophospholipids by TRPC5 Calcium Channel. Journal of Biological Chemistry, 2006, 281, 4977-4982.	3.4	114
32	Characterization of a voltage-gated K+ channel that accelerates the rod response to dim light. Neuron, 1989, 3, 573-581.	8.1	105
33	Mechanically activated Piezo1 channels of cardiac fibroblasts stimulate p38 mitogen-activated protein kinase activity and interleukin-6 secretion. Journal of Biological Chemistry, 2019, 294, 17395-17408.	3.4	99
34	Robotic multiwell planar patch-clamp for native and primary mammalian cells. Nature Protocols, 2009, 4, 244-255.	12.0	95
35	Hypoxia-inducible Factor-1Î± (HIF1Î±) Switches on Transient Receptor Potential Ankyrin Repeat 1 (TRPA1) Gene Expression via a Hypoxia Response Element-like Motif to Modulate Cytokine Release. Journal of Biological Chemistry, 2012, 287, 31962-31972.	3.4	93
36	EMERGING FUNCTIONS OF 10 TYPES OF TRP CATIONIC CHANNEL IN VASCULAR SMOOTH MUSCLE. Clinical and Experimental Pharmacology and Physiology, 2005, 32, 597-603.	1.9	91

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37	Identification and Pharmacological Correction of a Membrane Trafficking Defect Associated with a Mutation in the Sulfonylurea Receptor Causing Familial Hyperinsulinism. Journal of Biological Chemistry, 2001, 276, 35947-35952.	3.4	90
38	Constitutively Active TRPC Channels of Adipocytes Confer a Mechanism for Sensing Dietary Fatty Acids and Regulating Adiponectin. Circulation Research, 2012, 111, 191-200.	4.5	90
39	Calcium-sensing mechanism in TRPC5 channels contributing to retardation of neurite outgrowth. Journal of Physiology, 2006, 572, 165-172.	2.9	88
40	In pursuit of small molecule chemistry for calciumâ€permeable nonâ€selective TRPC channels â€“ mirage or pot of gold?. British Journal of Pharmacology, 2013, 170, 459-474.	5.4	86
41	A voltageâ€dependent outward current with fast kinetics in single smooth muscle cells isolated from rabbit portal vein.. Journal of Physiology, 1989, 412, 397-414.	2.9	83
42	Single channel and wholeâ€cell Kâ€currents evoked by levcromakalim in smooth muscle cells from the rabbit portal vein. British Journal of Pharmacology, 1993, 110, 583-590.	5.4	82
43	Interactions, Functions, and Independence of Plasma Membrane STIM1 and TRPC1 in Vascular Smooth Muscle Cells. Circulation Research, 2008, 103, e97-104.	4.5	82
44	E3-targeted anti-TRPC5 antibody inhibits store-operated calcium entry in freshly isolated pial arterioles. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H2653-H2659.	3.2	81
45	The Insulin-Like Growth Factor-1 Receptor Is a Negative Regulator of Nitric Oxide Bioavailability and Insulin Sensitivity in the Endothelium. Diabetes, 2011, 60, 2169-2178.	0.6	79
46	TRPM2 channel properties, functions and therapeutic potentials. Expert Opinion on Therapeutic Targets, 2010, 14, 973-988.	3.4	77
47	Picomolar, selective, and subtype-specific small-molecule inhibition of TRPC1/4/5 channels. Journal of Biological Chemistry, 2017, 292, 8158-8173.	3.4	77
48	Characteristics of Transient Receptor Potential Canonical Calcium-Permeable Channels and Their Relevance to Vascular Physiology and Disease. Circulation Journal, 2013, 77, 570-579.	1.6	73
49	Pharmacological profile of store-operated channels in cerebral arteriolar smooth muscle cells. British Journal of Pharmacology, 2003, 139, 955-965.	5.4	72
50	Pregnenolone sulphate-independent inhibition of TRPM3 channels by progesterone. Cell Calcium, 2012, 51, 1-11.	2.4	72
51	TRPM2 channel deficiency prevents delayed cytosolic Zn2+ accumulation and CA1 pyramidal neuronal death after transient global ischemia. Cell Death and Disease, 2014, 5, e1541-e1541.	6.3	71
52	K+-induced dilation of a small renal artery: no role for inward rectifier K+ channels. Cardiovascular Research, 1998, 37, 780-790.	3.8	65
53	TRPC channel lipid specificity and mechanisms of lipid regulation. Cell Calcium, 2009, 45, 583-588.	2.4	65
54	Electrophysiological and other aspects of the relaxant action of isoprenaline in guineaâ€pig isolated trachealis. British Journal of Pharmacology, 1985, 86, 843-854.	5.4	64

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55	Expression and function of native potassium channel (K V Î±1) subunits in terminal arterioles of rabbit. Journal of Physiology, 2001, 534, 691-700.	2.9	64
56	Ion channel switching and activation in smooth-muscle cells of occlusive vascular diseases. Biochemical Society Transactions, 2007, 35, 890-894.	3.4	62
57	Discrete storeâ€operated calcium influx into an intracellular compartment in rabbit arteriolar smooth muscle. Journal of Physiology, 2002, 543, 455-464.	2.9	60
58	Identification of Pore Residues Engaged in Determining Divalent Cationic Permeation in Transient Receptor Potential Melastatin Subtype Channel 2. Journal of Biological Chemistry, 2008, 283, 27426-27432.	3.4	60
59	Rapid and Contrasting Effects of Rosiglitazone on Transient Receptor Potential TRPM3 and TRPC5 Channels. Molecular Pharmacology, 2011, 79, 1023-1030.	2.3	58
60	Intracellular Coiled-coil Domain Engaged in Subunit Interaction and Assembly of Melastatin-related Transient Receptor Potential Channel 2. Journal of Biological Chemistry, 2006, 281, 38748-38756.	3.4	57
61	Rho-kinase inhibitors prevent agonist-induced vasospasm in human internal mammary artery. British Journal of Pharmacology, 2001, 132, 302-308.	5.4	55
62	Potent suppression of vascular smooth muscle cell migration and human neointimal hyperplasia by KV1.3 channel blockers. Cardiovascular Research, 2011, 89, 282-289.	3.8	55
63	Piezo1 Inactivation in Chondrocytes Impairs Trabecular Bone Formation. Journal of Bone and Mineral Research, 2020, 36, 369-384.	2.8	55
64	Novel Role of the IGF-1 Receptor in Endothelial Function and Repair. Diabetes, 2012, 61, 2359-2368.	0.6	54
65	Orai1 calcium channels in the vasculature. Pflugers Archiv European Journal of Physiology, 2012, 463, 635-647.	2.8	54
66	Nanomolar potency and selectivity of a Ca²⁺release-activated Ca²⁺channel inhibitor against store-operated Ca²⁺entry and migration of vascular smooth muscle cells. British Journal of Pharmacology, 2011, 164, 382-393.	5.4	53
67	A differential role of macrophage TRPM2 channels in Ca²⁺ signaling and cell death in early responses to H₂O₂. American Journal of Physiology - Cell Physiology, 2013, 305, C61-C69.	4.6	52
68	Short-Term Stimulation of Calcium-Permeable Transient Receptor Potential Canonical 5â€“Containing Channels by Oxidized Phospholipids. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 1453-1459.	2.4	51
69	Integration of transient receptor potential canonical channels with lipids. Acta Physiologica, 2012, 204, 227-237.	3.8	50
70	Zinc Inactivates Melastatin Transient Receptor Potential 2 Channels via the Outer Pore. Journal of Biological Chemistry, 2011, 286, 23789-23798.	3.4	49
71	Inhibition of endothelial cell <scp><scp>Ca</scp>²⁺</scp> entry and transient receptor potential channels by <scp>S</scp>igmaâ€1 receptor ligands. British Journal of Pharmacology, 2013, 168, 1445-1455.	5.4	48
72	Activation of TRPC1 Channel by Metabotropic Glutamate Receptor mGluR5 Modulates Synaptic Plasticity and Spatial Working Memory. Frontiers in Cellular Neuroscience, 2018, 12, 318.	3.7	48

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73	Shear stress activates ADAM10 sheddase to regulate Notch1 via the Piezo1 force sensor in endothelial cells. ELife, 2020, 9, .	6.0	48
74	Cisâ€‹isomerism and other chemical requirements of steroidal agonists and partial agonists acting at TRPM3 channels. British Journal of Pharmacology, 2010, 161, 430-441.	5.4	47
75	State-dependent Inhibition of TRPM2 Channel by Acidic pH. Journal of Biological Chemistry, 2010, 285, 30411-30418.	3.4	47
76	Properties and Therapeutic Potential of Transient Receptor Potential Channels with Putative Roles in Adversity: Focus on TRPC5, TRPM2 and TRPA1. Current Drug Targets, 2011, 12, 724-736.	2.1	47
77	TRPM2-mediated intracellular Zn2+ release triggers pancreatic Î²-cell death. Biochemical Journal, 2015, 466, 537-546.	3.7	47
78	Remarkable Progress with Small-Molecule Modulation of TRPC1/4/5 Channels: Implications for Understanding the Channels in Health and Disease. Cells, 2018, 7, 52.	4.1	47
79	Sphingomyelinase Disables Inactivation in Endogenous PIEZO1 Channels. Cell Reports, 2020, 33, 108225.	6.4	47
80	Stereoâ€‹selective inhibition of transient receptor potential TRPC5 cation channels by neuroactive steroids. British Journal of Pharmacology, 2011, 162, 1509-1520.	5.4	45
81	Production of a specific extracellular inhibitor of TRPM3 channels. British Journal of Pharmacology, 2008, 155, 567-573.	5.4	44
82	Canonical Transient Receptor Potential 5. , 2007, , 109-123.		43
83	Natural and synthetic flavonoid modulation of TRPC5 channels. British Journal of Pharmacology, 2016, 173, 562-574.	5.4	42
84	Orai1 Channel Inhibition Preserves Left Ventricular Systolic Function and Normal Ca ²⁺ Handling After Pressure Overload. Circulation, 2020, 141, 199-216.	1.6	42
85	Action of nifedipine of BAY K8644 is dependent on calcium channel state in single smooth muscle cells from rabbit ear artery. Pflugers Archiv European Journal of Physiology, 1988, 411, 590-592.	2.8	41
86	(â^')-Englerin A-evoked Cytotoxicity Is Mediated by Na+ Influx and Counteracted by Na+/K+-ATPase. Journal of Biological Chemistry, 2017, 292, 723-731.	3.4	40
87	Functional up-regulation ofKCNAgene family expression in murine mesenteric resistance artery smooth muscle. Journal of Physiology, 2004, 556, 29-42.	2.9	37
88	Transient receptor potential canonical 4 and 5 proteins as targets in cancer therapeutics. European Biophysics Journal, 2016, 45, 611-620.	2.2	37
89	TRPM3 channel stimulated by pregnenolone sulphate in synovial fibroblasts and negatively coupled to hyaluronan. BMC Musculoskeletal Disorders, 2010, 11, 111.	1.9	36
90	Human TRPC5 structures reveal interaction of a xanthine-based TRPC1/4/5 inhibitor with a conserved lipid binding site. Communications Biology, 2020, 3, 704.	4.4	36

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91	Effects of potassium channel toxins from Leiurus quinquestriatus hebraeus venom on responses to cromakalim in rabbit blood vessels. British Journal of Pharmacology, 1989, 98, 817-826.	5.4	35
92	Sar1-GTPase-dependent ER exit of KATP channels revealed by a mutation causing congenital hyperinsulinism. Human Molecular Genetics, 2009, 18, 2400-2413.	2.9	33
93	Selective Enhancement of Insulin Sensitivity in the Endothelium In Vivo Reveals a Novel Proatherosclerotic Signaling Loop. Circulation Research, 2017, 120, 784-798.	4.5	33
94	Na+ entry through heteromeric TRPC4/C1 channels mediates (â^')Englerin A-induced cytotoxicity in synovial sarcoma cells. Scientific Reports, 2017, 7, 16988.	3.3	33
95	Molecular dynamics simulations of Piezo1 channel opening by increases in membrane tension. Biophysical Journal, 2021, 120, 1510-1521.	0.5	33
96	Multiple G-protein-coupled pathways inhibit N-type Ca channels of neurons. Life Sciences, 1995, 56, 989-992.	4.3	32
97	TRPC5 Channel Sensitivities to Antioxidants and Hydroxylated Stilbenes. Journal of Biological Chemistry, 2011, 286, 5078-5086.	3.4	32
98	Inhibitory effects of histamine and bradykinin on calcium current in smooth muscle cells isolated from guineaâ€pig ileum.. Journal of Physiology, 1993, 463, 565-583.	2.9	31
99	Mechanism of calcium channel block by D600 in single smooth muscle cells from rabbit ear artery.. Circulation Research, 1989, 64, 928-936.	4.5	30
100	Nitric oxide lacks direct effect on TRPC5 channels but suppresses endogenous TRPC5-containing channels in endothelial cells. Pflugers Archiv European Journal of Physiology, 2010, 460, 121-130.	2.8	30
101	Endothelial Piezo1 channels as sensors of exercise. Journal of Physiology, 2018, 596, 979-984.	2.9	30
102	Piezo1 channel activation mimics high glucose as a stimulator of insulin release. Scientific Reports, 2019, 9, 16876.	3.3	29
103	A simple method of fast extracellular solution exchange for the study of whole-cell or single channel currents using patch-clamp technique. Pflugers Archiv European Journal of Physiology, 1987, 410, 335-337.	2.8	27
104	Effects of pinaverium on voltageâ€activated calcium channel currents of single smooth muscle cells isolated from the longitudinal muscle of the rabbit jejunum. British Journal of Pharmacology, 1990, 99, 374-378.	5.4	27
105	Modulation of TRPC5 cation channels by halothane, chloroform and propofol. British Journal of Pharmacology, 2008, 153, 1505-1512.	5.4	27
106	Orai3 Surface Accumulation and Calcium Entry Evoked by Vascular Endothelial Growth Factor. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 1987-1994.	2.4	27
107	Stimulation of TRPC5 cationic channels by low micromolar concentrations of lead ions (Pb2+). Biochemical and Biophysical Research Communications, 2010, 393, 50-54.	2.1	26
108	Potent, selective, and subunitâ€dependent activation of TRPC5 channels by a xanthine derivative. British Journal of Pharmacology, 2019, 176, 3924-3938.	5.4	26

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109	Rab46 integrates Ca2+ and histamine signaling to regulate selective cargo release from Weibel-Palade bodies. Journal of Cell Biology, 2019, 218, 2232-2246.	5.2	26
110	A method for direct patch-clamp recording from smooth muscle cells embedded in functional brain microvessels. Pflugers Archiv European Journal of Physiology, 1998, 435, 564-569.	2.8	24
111	Vasorelaxant properties of nicorandil on human radial artery. European Journal of Cardio-thoracic Surgery, 2000, 17, 319-324.	1.4	24
112	Activation Thresholds of K_V, BK andCl_{Ca} Channels in Smooth Muscle Cells in Pial Precapillary Arterioles. Journal of Vascular Research, 2002, 39, 122-130.	1.4	24
113	Kv1.5 potassium channel gene regulation by Sp1 transcription factor and oxidative stress. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H2719-H2725.	3.2	24
114	Pico145 - powerful new tool for TRPC1/4/5 channels. Channels, 2017, 11, 362-364.	2.8	24
115	TRPC4/TRPC5 channels mediate adverse reaction to the cancer cell cytotoxic agent (-)-Englerin A. Oncotarget, 2018, 9, 29634-29643.	1.8	24
116	Block of human aorta Kir6.1 by the vascular KATP channel inhibitor U37883A. British Journal of Pharmacology, 1999, 128, 667-672.	5.4	23
117	Translocon closure to Ca²⁺ leak in proliferating vascular smooth muscle cells. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 296, H910-H916.	3.2	23
118	Endothelial SHIP2 Suppresses Nox2 NADPH Oxidaseâ€“Dependent Vascular Oxidative Stress, Endothelial Dysfunction, and Systemic Insulin Resistance. Diabetes, 2017, 66, 2808-2821.	0.6	23
119	RBCs prevent rapid PIEZO1 inactivation and expose slow deactivation as a mechanism of dehydrated hereditary stomatocytosis. Blood, 2020, 136, 140-144.	1.4	23
120	Modeling of full-length Piezo1 suggests importance of the proximal N-terminus for dome structure. Biophysical Journal, 2021, 120, 1343-1356.	0.5	23
121	Endothelial Piezo1 sustains muscle capillary density and contributes to physical activity. Journal of Clinical Investigation, 2022, 132, .	8.2	23
122	Endothelial Insulin Receptors Promote VEGF-A Signaling via ERK1/2 and Sprouting Angiogenesis. Endocrinology, 2021, 162, .	2.8	20
123	Ionic currents and inhibitory effects of glibenclamide in seminal vesicle smooth muscle cells. British Journal of Pharmacology, 1995, 115, 1447-1454.	5.4	19
124	Role of K+ channels in A2A adenosine receptor-mediated dilation of the pressurized renal arcuate artery. British Journal of Pharmacology, 1999, 126, 494-500.	5.4	19
125	GVI phospholipase A2 role in the stimulatory effect of sphingosine-1-phosphate on TRPC5 cationic channels. Cell Calcium, 2011, 50, 343-350.	2.4	19
126	ORAI1 Ca2+ Channel as a Therapeutic Target in Pathological Vascular Remodelling. Frontiers in Cell and Developmental Biology, 2021, 9, 653812.	3.7	19

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127	Identification of molecular regions responsible for the membrane trafficking of Kir6.2. Pflugers Archiv European Journal of Physiology, 2000, 440, 481-487.	2.8	18
128	Restoring Akt1 Activity in Outgrowth Endothelial Cells From South Asian Men Rescues Vascular Reparative Potential. Stem Cells, 2014, 32, 2714-2723.	3.2	18
129	Identification of an (â˜)â€englerin A analogue, which antagonizes (â˜)â€englerin A at TRPC1/4/5 channels. British Journal of Pharmacology, 2018, 175, 830-839.	5.4	18
130	Piezo channel mechanisms in health and disease. Journal of Physiology, 2018, 596, 965-967.	2.9	18
131	Tonantzitlolone is a nanomolar potency activator of transient receptor potential canonical 1/4/5 channels. British Journal of Pharmacology, 2018, 175, 3361-3368.	5.4	18
132	Harmony and Discord in Endothelial Calcium Entry. Circulation Research, 2009, 104, e22-3.	4.5	16
133	Endothelial Piezo1: Life depends on it. Channels, 2015, 9, 1-2.	2.8	15
134	Expression of a long variant of CRACR2A that belongs to the Rab GTPase protein family in endothelial cells. Biochemical and Biophysical Research Communications, 2015, 456, 398-402.	2.1	15
135	ORAI Channels as Potential Therapeutic Targets in Pulmonary Hypertension. Physiology, 2018, 33, 261-268.	3.1	15
136	Bipolar phospholipid sensing by TRPC5 calcium channel. Biochemical Society Transactions, 2007, 35, 101-104.	3.4	13
137	Inhibition of delayed rectifier K⁺â€current by levcromakalim in single intestinal smooth muscle cells: effects of cations and dependence on K⁺â€flux. British Journal of Pharmacology, 1995, 114, 391-399.	5.4	12
138	Advantages of CEMiTool for gene co-expression analysis of RNA-seq data. Computers in Biology and Medicine, 2020, 125, 103975.	7.0	12
139	Pharmacology of TRPC Channels and Its Potential in Cardiovascular and Metabolic Medicine. Annual Review of Pharmacology and Toxicology, 2022, 62, 427-446.	9.4	12
140	Placental blood flow sensing and regulation in fetal growth restriction. Placenta, 2021, 113, 23-28.	1.5	12
141	Nonselective TRPC channel inhibition and suppression of aminoglycoside-induced premature termination codon readthrough by the small molecule AC1903. Journal of Biological Chemistry, 2022, 298, 101546.	3.4	12
142	Channel Regulation by Extracellular Redox Protein. Channels, 2007, 1, 400-403.	2.8	11
143	Platelet-Derived Growth Factor Maintains Stored Calcium Through a Nonclustering Orai1 Mechanism But Evokes Clustering If the Endoplasmic Reticulum Is Stressed by Store Depletion. Circulation Research, 2012, 111, 66-76.	4.5	11
144	Correspondence: Challenging a proposed role for TRPC5 in aortic baroreceptor pressure-sensing. Nature Communications, 2018, 9, 1245.	12.8	11

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145	Divergent effects of genetic and pharmacological inhibition of Nox2 NADPH oxidase on insulin resistance-related vascular damage. American Journal of Physiology - Cell Physiology, 2020, 319, C64-C74.	4.6	11
146	Global PIEZO1 Gain-of-Function Mutation Causes Cardiac Hypertrophy and Fibrosis in Mice. Cells, 2022, 11, 1199.	4.1	10
147	Prevention of a hypoxic Ca2+ i response by SERCA inhibitors in cerebral arterioles. British Journal of Pharmacology, 2002, 135, 927-934.	5.4	9
148	Xanthine-based photoaffinity probes allow assessment of ligand engagement by TRPC5 channels. RSC Chemical Biology, 2020, 1, 436-448.	4.1	9
149	Less REST, More Vascular Disease? Regulation of Cell Cycle and Migration of Vascular Smooth Muscle Cells. Cell Cycle, 2006, 5, 129-131.	2.6	8
150	Homotypic endothelial nanotubes induced by wheat germ agglutinin and thrombin. Scientific Reports, 2018, 8, 7569.	3.3	8
151	Potassium channels at the beginnings of cell proliferation. Journal of Physiology, 2006, 570, 1-1.	2.9	7
152	Endothelial IGFâ€1 receptor mediates crosstalk with the gut wall to regulate microbiota in obesity. EMBO Reports, 2021, 22, e50767.	4.5	7
153	Novel Paracrine Action of Endothelium Enhances Glucose Uptake in Muscle and Fat. Circulation Research, 2021, 129, 720-734.	4.5	7
154	Upregulated WEE1 protects endothelial cells of colorectal cancer liver metastases. Oncotarget, 2017, 8, 42288-42299.	1.8	7
155	Inhibitors of spasmogen-induced Ca2+ channel suppression in smooth muscle cells from small intestine. British Journal of Pharmacology, 1998, 125, 667-674.	5.4	6
156	A residue in the TRPM2 channel outer pore is crucial in determining species-dependent sensitivity to extracellular acidic pH. Pflugers Archiv European Journal of Physiology, 2011, 462, 293-302.	2.8	6
157	TRPC1 transcript variants, inefficient nonsense-mediated decay and low up-frameshift-1 in vascular smooth muscle cells. BMC Molecular Biology, 2011, 12, 30.	3.0	6
158	SOCs â€“ Storeâ€Operated Channels in Vascular Smooth Muscle?. Journal of Physiology, 2002, 544, 1-1.	2.9	5
159	Generation of Antibodies That Are Externally Acting Isoform-Specific Inhibitors of Ion Channels. Methods in Molecular Biology, 2013, 998, 245-256.	0.9	5
160	TRPC5 ion channel permeation promotes weight gain in hypercholesterolaemic mice. Scientific Reports, 2019, 9, 773.	3.3	5
161	Regulation of Arterial Tone by K _V 1 Potassium Channels. Circulation Research, 2005, 96, .	4.5	4
162	Vascular endothelial growth factor A evokes distinct calcium entry by promoting surface accumulation of Orai3 (1057.5). FASEB Journal, 2014, 28, 1057.5.	0.5	2

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163	Ions in smooth muscle, now and then. Journal of Physiology, 2006, 570, 3-3.	2.9	1
164	Triskelion channels might bring Star Wars to the global problem of hypertension. Cell Calcium, 2019, 77, 77-78.	2.4	1
165	Bridgehead Modifications of Englerin A Reduce TRPC4 Activity and Intravenous Toxicity but not Cell Growth Inhibition. ACS Medicinal Chemistry Letters, 2020, 11, 1711-1716.	2.8	1
166	RNA and the PIEZO force sensor. Cell Research, 2020, 30, 829-830.	12.0	1
167	Response by Benitah et al to Letter Regarding Article, â€œOrai1 Channel Inhibition Preserves Left Ventricular Systolic Function and Normal Ca ²⁺ Handling After Pressure Overloadâ€. Circulation, 2020, 141, e839-e840.	1.6	1
168	Inhibition of TRPM3 channel by antiâ€depressant and antiâ€psychotic drugs. FASEB Journal, 2008, 22, 937.5.	0.5	1
169	Inhibition of human TRPC5 activity by PIP2. FASEB Journal, 2006, 20, A329.	0.5	1
170	An ex vivo perfused ventilated murine lung model suggests lack of acute pulmonary toxicity of the potential novel anticancer agent (â^')-englerin A. Archives of Toxicology, 2022, 96, 1055-1063.	4.2	1
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