Citation Report
List of articles citing

TRP channels as cellular sensors

DOI: 10.1038/nature02196
Nature, 2003, 426, 517-24.

#	Paper	IF	Citations
2247	Eya protein phosphatase activity regulates Six1-Dach-Eya transcriptional effects in mammalian organogenesis. *Nature*, **2003**, 426, 247-54	50.4	505
2246	Structure and conserved RNA binding of the PAZ domain. *Nature*, **2003**, 426, 468-74	50.4	337
2245	Overexpression of TRPC1 enhances pulmonary vasoconstriction induced by capacitative Ca2+ entry. **2004**, 287, L962-9		91
2244	Response of descending vasa recta to luminal pressure. **2004**, 287, F535-42		30
2243	Diarrhea-associated HIV-1 APIs potentiate muscarinic activation of Cl- secretion by T84 cells via prolongation of cytosolic Ca2+ signaling. **2004**, 286, C998-C1008		28
2242	Receptor-operated cation entry--more than esoteric terminology?. **2004**, 2004, pe35		28
2241	Newly emerging Ca2+ entry channel molecules that regulate the vascular tone. **2004**, 8, 321-34		13
2240	Gastrointestinal pain in functional bowel disorders: sensory neurons as novel drug targets. **2004**, 8, 107-23		33
2239	Role of the urothelium in bladder function. **2004**, 48-53		46
2238	Skin denervation in type 2 diabetes: correlations with diabetic duration and functional impairments. **2004**, 127, 1593-605		253
2237	Caveolae-associated signalling in smooth muscle. **2004**, 82, 289-99		56
2236	Close functional coupling between Ca2+ release-activated Ca2+ channels, arachidonic acid release, and leukotriene C4 secretion. **2004**, 279, 29994-9		74
2235	TRP channels at a glance. **2004**, 117, 5707-9		22
2234	Junctate is a key element in calcium entry induced by activation of InsP3 receptors and/or calcium store depletion. **2004**, 166, 537-48		102
2233	Critical role for transient receptor potential channel TRPM4 in myogenic constriction of cerebral arteries. **2004**, 95, 922-9		305
2232	The vanilloid receptor as a putative target of diverse chemicals in multiple chemical sensitivity. **2004**, 59, 363-75		32
2231	Sites of the NUDT9-H domain critical for ADP-ribose activation of the cation channel TRPM2. **2004**, 279, 46431-7		95

2230	Phosphatase inhibition reveals a calcium entry pathway dependent on protein kinase A in thyroid FRTL-5 cells: comparison with store-operated calcium entry. **2004**, 279, 49816-24	12
2229	Identification of a tetramerization domain in the C terminus of the vanilloid receptor. **2004**, 24, 5307-14	156
2228	Phosphorylation of vanilloid receptor 1 by Ca2+/calmodulin-dependent kinase II regulates its vanilloid binding. **2004**, 279, 7048-54	205
2227	Disruption of TRPM6/TRPM7 complex formation by a mutation in the TRPM6 gene causes hypomagnesemia with secondary hypocalcemia. **2004**, 101, 2894-9	295
2226	Involvement of inositol 1,4,5-trisphosphate in nicotinic calcium responses in dystrophic myotubes assessed by near-plasma membrane calcium measurement. **2004**, 279, 47092-100	31
2225	Clues to understanding cold sensation: thermodynamics and electrophysiological analysis of the cold receptor TRPM8. **2004**, 101, 15494-9	287
2224	Phosphorylation of annexin I by TRPM7 channel-kinase. **2004**, 279, 50643-6	152
2223	Swelling-activated Ca2+ entry via TRPV4 channel is defective in cystic fibrosis airway epithelia. **2004** , 279, 54062-8	139
2222	Sarcolipin retention in the endoplasmic reticulum depends on its C-terminal RSYQY sequence and its interaction with sarco(endo)plasmic Ca(2+)-ATPases. **2004**, 101, 16807-12	42
2221	Molecular determinants in TRPV5 channel assembly. **2004**, 279, 54304-11	68
2220	G-protein-gated TRP-like cationic channel activated by muscarinic receptors: effect of potential on single-channel gating. **2004**, 123, 581-98	42
2219	Biochemical pharmacology of the vanilloid receptor TRPV1. An update. **2004**, 271, 1814-9	242
2218	Molecular architecture of the vanilloid receptor. Insights for drug design. **2004**, 271, 1820-6	80
2217	Vanilloid receptor TRPV1: hot on the tongue and inflaming the colon. **2004**, 16, 697-9	30
2216	Isolated plant nuclei as mechanical and thermal sensors involved in calcium signalling. **2004**, 40, 12-21	60
2215	Inhibition of glutamate-induced delayed calcium deregulation by 2-APB and La3+ in cultured cortical neurones. **2004**, 91, 471-83	37
2214	Rapid vesicular translocation and insertion of TRP channels. **2004**, 6, 709-20	450
2213	The state of ion channel research in 2004. **2004**, 3, 239-278	10

2212	Ion Channels. **2004**, 141, S71-S91		1
2211	Activation and sensitisation of the vanilloid receptor: role in gastrointestinal inflammation and function. **2004**, 141, 1313-20		146
2210	Inhibition of TRPM2 function by PARP inhibitors protects cells from oxidative stress-induced death. **2004**, 143, 515-6		23
2209	Mustard oils and cannabinoids excite sensory nerve fibres through the TRP channel ANKTM1. *Nature*, **2004**, 427, 260-5	50.4	1514
2208	The principle of temperature-dependent gating in cold- and heat-sensitive TRP channels. *Nature*, **2004**, 430, 748-54	50.4	788
2207	TRPA1 is a candidate for the mechanosensitive transduction channel of vertebrate hair cells. *Nature* , **2004**, 432, 723-30	50.4	576
2206	Acid-sensing ion channels ASIC2 and ASIC3 do not contribute to mechanically activated currents in mammalian sensory neurones. **2004**, 556, 691-710		205
2205	Human TRPC5 channel activated by a multiplicity of signals in a single cell. **2004**, 559, 739-50		110
2204	Non-selective cationic channels of smooth muscle and the mammalian homologues of Drosophila TRP. **2004**, 559, 685-706		196
2203	Calcium channels activated by endothelin-1 in human trophoblast. **2004**, 561, 449-58		12
2202	The enigmatic TRPCs: multifunctional cation channels. **2004**, 14, 282-6		93
2201	TRP ion channels in the nervous system. **2004**, 14, 362-9		275
2200	Hypothesis: a helix of ankyrin repeats of the NOMPC-TRP ion channel is the gating spring of mechanoreceptors. **2004**, 14, R224-6		168
2199	TRPV1 and the gut: from a tasty receptor for a painful vanilloid to a key player in hyperalgesia. **2004**, 500, 231-41		126
2198	Modulation of human GABAA and glycine receptor currents by menthol and related monoterpenoids. **2004**, 506, 9-16		100
2197	Calcium entry mediated by SOCs and TRP channels: variations and enigma. **2004**, 1742, 9-20		72
2196	The calcium influx pathway in rat olfactory ensheathing cells shows TRPC channel pharmacology. **2004**, 1023, 154-6		10
2195	Hypoxia sensing and pathways of cytosolic Ca2+ increases. **2004**, 36, 187-99		50

2194	Thermosensation and pain. **2004**, 61, 3-12	376
2193	The influence of geometry, surface character, and flexibility on the permeation of ions and water through biological pores. **2004**, 1, 42-52	203
2192	Phosphatidylinositol 3-kinase activates ERK in primary sensory neurons and mediates inflammatory heat hyperalgesia through TRPV1 sensitization. **2004**, 24, 8300-9	332
2191	TRP ion channels in the nervous system. **2004**,	1
2190	Ca2+-selective transient receptor potential V channel architecture and function require a specific ankyrin repeat. **2004**, 279, 34456-63	106
2189	Specific polyunsaturated fatty acids drive TRPV-dependent sensory signaling in vivo. **2004**, 119, 889-900	132
2188	Overexpression of wild-type and mutant mucolipin proteins in mammalian cells: effects on the late endocytic compartment organization. **2004**, 567, 219-24	68
2187	Phospholipase C delta-type consists of three isozymes: bovine PLCdelta2 is a homologue of human/mouse PLCdelta4. **2004**, 320, 537-43	38
2186	Calcium-calcineurin signaling in the regulation of cardiac hypertrophy. **2004**, 322, 1178-91	356
2185	Functional role of TRPC proteins in vivo: lessons from TRPC-deficient mouse models. **2004**, 322, 1352-8	53
2184	TRPV6 and prostate cancer: cancer growth beyond the prostate correlates with increased TRPV6 Ca2+ channel expression. **2004**, 322, 1359-63	92
2183	Enkurin is a novel calmodulin and TRPC channel binding protein in sperm. **2004**, 274, 426-35	82
2182	Mechanosensitive channels: what can we learn from 'simple' model systems?. **2004**, 27, 345-51	77
2181	The TRPM ion channel subfamily: molecular, biophysical and functional features. **2004**, 25, 633-9	230
2180	The super-cooling agent icilin reveals a mechanism of coincidence detection by a temperature-sensitive TRP channel. **2004**, 43, 859-69	257
2179	Novel aspects of signaling and ion-homeostasis regulation in immunocytes. The TRPM ion channels and their potential role in modulating the immune response. **2004**, 41, 657-73	66
2178	Noxious cold ion channel TRPA1 is activated by pungent compounds and bradykinin. **2004**, 41, 849-57	1397
2177	The VGL-chanome: a protein superfamily specialized for electrical signaling and ionic homeostasis. **2004**, 2004, re15	273

2176	Near-membrane protein dynamics revealed by evanescent field microscopy. **2004**, 5467, 326	
2175	Inositol trisphosphate analogues selective for types I and II inositol trisphosphate receptors exert differential effects on vasopressin-stimulated Ca2+ inflow and Ca2+ release from intracellular stores in rat hepatocytes. **2004**, 381, 519-26	12
2174	[Molecular mechanisms of thermosensation]. **2004**, 124, 219-27	7
2173	Store-operated Ca2+ entry channels: still elusive!. **2004**, 2004, pe36	30
2172	Spike patterning by Ca2+-dependent regulation of a muscarinic cation current in entorhinal cortex layer II neurons. **2004**, 92, 1644-57	34
2171	Ion Channels. **2005**,	1
2170	Understanding neuropathic pain. **2005**, 10, 298-308	42
2169	Temperature sensitivity of dopaminergic neurons of the substantia nigra pars compacta: involvement of transient receptor potential channels. **2005**, 94, 3069-80	84
2168	On the Role of Neurotrophins in Dendritic Calcium Signaling. **2005**, 185-200	1
2167	The odontoblast as a sensory receptor cell? The expression of TRPV1 (VR-1) channels. **2005**, 68, 251-7	63
2166	Interplay between P2Y(1), P2Y(12), and P2X(1) receptors in the activation of megakaryocyte cation influx currents by ADP: evidence that the primary megakaryocyte represents a fully functional model of platelet P2 receptor signaling. **2005**, 106, 1644-51	56
2165	A microbial TRP-like polycystic-kidney-disease-related ion channel gene. **2005**, 387, 211-9	32
2164	Different phospholipase-C-coupled receptors differentially regulate capacitative and non-capacitative Ca2+ entry in A7r5 cells. **2005**, 389, 821-9	29
2163	Lafutidine-induced increase in intracellular ca(2+) concentrations in PC12 and endothelial cells. **2005**, 97, 67-74	5
2162	Effects on transmitter uptake and their cellular and molecular basis. **2005**, 31-46	
2161	Alternative splicing switches the divalent cation selectivity of TRPM3 channels. **2005**, 280, 22540-8	151
2160	Emerging functions of 10 types of TRP cationic channel in vascular smooth muscle. **2005**, 32, 597-603	80
2159	Hyperforin activates nonselective cation channels (NSCCs). **2005**, 145, 75-83	51

2158	Ion Channels. **2005**, 144, S73-S94	3
2157	Block of TRPC5 channels by 2-aminoethoxydiphenyl borate: a differential, extracellular and voltage-dependent effect. **2005**, 145, 405-14	193
2156	Simple recipe for blocking ion channels. **2005**, 23, 1234-5	7
2155	Generation of functional ion-channel tools by E3 targeting. **2005**, 23, 1289-93	105
2154	TRPs as mechanosensitive channels. **2005**, 7, 105-7	43
2153	Spire: a new nucleator for actin. **2005**, 7, 107	4
2152	TRPC1 forms the stretch-activated cation channel in vertebrate cells. **2005**, 7, 179-85	543
2151	Sensing with TRP channels. **2005**, 1, 85-92	287
2150	A new TRP to kidney disease. **2005**, 37, 663-4	21
2149	TRPC6 is a glomerular slit diaphragm-associated channel required for normal renal function. **2005**, 37, 739-44	640
2148	PI(4,5)P2 regulates the activation and desensitization of TRPM8 channels through the TRP domain. **2005**, 8, 626-34	468
2147	XTRPC1-dependent chemotropic guidance of neuronal growth cones. **2005**, 8, 730-5	143
2146	Regulated exocytosis: new organelles for non-secretory purposes. **2005**, 6, 181-7	111
2145	Trafficking of TRPP2 by PACS proteins represents a novel mechanism of ion channel regulation. **2005**, 24, 705-16	200
2144	Anandamide acts as an intracellular messenger amplifying Ca2+ influx via TRPV1 channels. **2005**, 24, 3026-37	186
2143	Conformational changes of pore helix coupled to gating of TRPV5 by protons. **2005**, 24, 3224-34	79
2142	Thermosensitivity of the two-pore domain K+ channels TREK-2 and TRAAK. **2005**, 564, 103-16	186
2141	Facilitatory effect of Ins(1,4,5)P3 on store-operated Ca2+-permeable cation channels in rabbit portal vein myocytes. **2005**, 566, 161-71	20

2140	Requirement of TRPC channels in netrin-1-induced chemotropic turning of nerve growth cones. *Nature*, **2005**, 434, 898-904	50.4	260
2139	A possible unifying principle for mechanosensation. *Nature*, **2005**, 436, 647-54	50.4	530
2138	Heat activation of TRPM5 underlies thermal sensitivity of sweet taste. *Nature*, **2005**, 438, 1022-5	50.4	357
2137	The vanilloid receptor and hypertension. **2005**, 26, 286-94		65
2136	Identification of an N-terminal TRPC2 splice variant which inhibits calcium influx. **2005**, 37, 173-82		20
2135	Polycystin-2 accelerates Ca2+ release from intracellular stores in Caenorhabditis elegans. **2005**, 37, 593-601		23
2134	TRP channels: an overview. **2005**, 38, 233-52		600
2133	Tyrosine phosphatase PTP1B interacts with TRPV6 in vivo and plays a role in TRPV6-mediated calcium influx in HEK293 cells. **2005**, 17, 951-60		19
2132	A store-operated Ca2+ influx activated in response to the depletion of thapsigargin-sensitive Ca2+ stores is developmentally regulated in embryonic cortical neurons from mice. **2005**, 159, 64-71		30
2131	Non-stimulated Ca2+ leak pathway in cerebellar granule neurones. **2005**, 70, 786-93		11
2130	Molecular cloning, functional characterization of the porcine transient receptor potential V1 (pTRPV1) and pharmacological comparison with endogenous pTRPV1. **2005**, 71, 173-87		25
2129	Brain hyperthermia as physiological and pathological phenomena. **2005**, 50, 27-56		94
2128	In search of the hair-cell gating spring elastic properties of ankyrin and cadherin repeats. **2005**, 13, 669-82		239
2127	CIF and other mysteries of the store-operated Ca2+-entry pathway. **2005**, 30, 378-87		73
2126	Phospholipase C-gamma: diverse roles in receptor-mediated calcium signaling. **2005**, 30, 688-97		95
2125	Contribution of natural products to the discovery of the transient receptor potential (TRP) channels family and their functions. **2005**, 106, 179-208		142
2124	Ci-Rga, a gene encoding an MtN3/saliva family transmembrane protein, is essential for tissue differentiation during embryogenesis of the ascidian Ciona intestinalis. **2005**, 73, 364-76		20
2123	Receptor-operated Ca2+ entry mediated by TRPC3/TRPC6 proteins in rat prostate smooth muscle (PS1) cell line. **2005**, 204, 320-8		86

2122	Canonical transient receptor potential channel 4 (TRPC4) co-localizes with the scaffolding protein ZO-1 in human fetal astrocytes in culture. **2005**, 49, 418-29	55
2121	Distinct expression of TRPM8, TRPA1, and TRPV1 mRNAs in rat primary afferent neurons with adelta/c-fibers and colocalization with trk receptors. **2005**, 493, 596-606	598
2120	Hearing in Drosophila: development of Johnston's organ and emerging parallels to vertebrate ear development. **2005**, 232, 550-8	67
2119	Porous capsules allow pore opening and closing that results in cation uptake. **2005**, 44, 7757-61	45
2118	Porous Capsules Allow Pore Opening and Closing That Results in Cation Uptake. **2005**, 117, 7935-7939	17
2117	Heterologously expressed fungal transient receptor potential channels retain mechanosensitivity in vitro and osmotic response in vivo. **2005**, 34, 413-22	39
2116	TRP channels as new pharmacological targets. **2005**, 371, 241-4	17
2115	Functional characterization and physiological relevance of the TRPC3/6/7 subfamily of cation channels. **2005**, 371, 257-65	79
2114	Structure-function analysis of TRPV channels. **2005**, 371, 285-94	32
2113	Emerging roles of TRPM6/TRPM7 channel kinase signal transduction complexes. **2005**, 371, 334-41	34
2112	Calcium-dependent activation of T-lymphocytes. **2005**, 450, 1-12	79
2111	Physiological mechanisms of TRPC activation. **2005**, 451, 29-34	86
2110	The mechanosensitive nature of TRPV channels. **2005**, 451, 193-203	233
2109	TRP channels and mice deficient in TRP channels. **2005**, 451, 11-8	36
2108	Na(+) entry and modulation of Na(+)/Ca(2+) exchange as a key mechanism of TRPC signaling. **2005**, 451, 99-104	47
2107	The role of TRPM channels in cell death. **2005**, 451, 235-42	91
2106	Structure and function of TRPV1. **2005**, 451, 143-50	299
2105	The diacylglycerol-sensitive TRPC3/6/7 subfamily of cation channels: functional characterization and physiological relevance. **2005**, 451, 72-80	115

2104	TRP channels: a TR(I)P through a world of multifunctional cation channels. **2005**, 451, 1-10	165
2103	Characterization of two different mucolipin-like genes from Leishmania major. **2005**, 98, 5-13	9
2102	Diacylglycerols activate mitochondrial cationic channel(s) and release sequestered Ca(2+). **2005**, 37, 237-47	11
2101	Activation of postsynaptic Ca(2+) stores modulates glutamate receptor cycling in hippocampal neurons. **2005**, 93, 178-88	11
2100	Intracellular Signal Pathways Utilized by the Hypocretin/Orexin Receptors. **2005**, 221-231	11
2099	Comprehensive analysis of the ascidian genome reveals novel insights into the molecular evolution of ion channel genes. **2005**, 22, 269-82	83
2098	Capsazepine, a vanilloid antagonist, abolishes tonic responses induced by 20-HETE on guinea pig airway smooth muscle. **2005**, 288, L460-70	24
2097	Lactate--a signal coordinating cell and systemic function. **2005**, 208, 4561-75	216
2096	Unraveling the Dopamine Receptor Signalplex by DRIPs and DRAPs. **2005**, 2, 209-223	7
2095	Organic cation permeation through the channel formed by polycystin-2. **2005**, 280, 29488-93	42
2094	An important role for granulocytes in the thermal regulation of colon tumor growth. **2005**, 34, 259-72	25
2093	The end of "naive reductionism": rise of systems biology or renaissance of physiology?. **2005**, 288, C968-74	95
2092	TRP channels as a newly emerging non-voltage-gated CA2+ entry channel superfamily. **2005**, 11, 1899-914	27
2091	Activation and activators of TRPV1 and their pharmaceutical implication. **2005**, 11, 2687-98	73
2090	SRC family kinases in cell volume regulation. **2005**, 288, C483-93	64
2089	Desensitization of canonical transient receptor potential channel 5 by protein kinase C. **2005**, 289, C591-600	57
2088	The beta-glucuronidase klotho hydrolyzes and activates the TRPV5 channel. **2005**, 310, 490-3	508
2087	Voltage-dependent changes of TRPV6-mediated Ca2+ currents. **2005**, 280, 7022-9	11

2086	TRPV4 forms a novel Ca2+ signaling complex with ryanodine receptors and BKCa channels. **2005**, 97, 1270-9	365
2085	Ethanol modulates the VR-1 variant amiloride-insensitive salt taste receptor. I. Effect on TRC volume and Na+ flux. **2005**, 125, 569-85	22
2084	PIP2 activates TRPV5 and releases its inhibition by intracellular Mg2+. **2005**, 126, 439-51	107
2083	Orexin-A-induced Ca2+ entry: evidence for involvement of trpc channels and protein kinase C regulation. **2005**, 280, 1771-81	60
2082	Release of Ca2+ from the endoplasmic reticulum contributes to Ca2+ signaling in Dictyostelium discoideum. **2005**, 4, 1513-25	21
2081	Polymodal sensory function of the Caenorhabditis elegans OCR-2 channel arises from distinct intrinsic determinants within the protein and is selectively conserved in mammalian TRPV proteins. **2005**, 25, 1015-23	31
2080	TRPM7 and ischemic CNS injury. **2005**, 11, 116-23	42
2079	Molecular mechanisms of trigeminal nociception and sensation of pungency. **2005**, 30 Suppl 1, i191-2	9
2078	Regulation of phospholipase C-gamma2 networks in B lymphocytes. **2005**, 88, 73-96	14
2077	Activation of M1 muscarinic acetylcholine receptors stimulates the formation of a multiprotein complex centered on TRPC6 channels. **2005**, 280, 32035-47	74
2076	Increased vascular smooth muscle contractility in TRPC6-/- mice. **2005**, 25, 6980-9	409
2075	Novel role of cold/menthol-sensitive transient receptor potential melastatine family member 8 (TRPM8) in the activation of store-operated channels in LNCaP human prostate cancer epithelial cells. **2005**, 280, 39423-35	126
2074	Metabotropic P2Y purinoceptor-mediated presynaptic and postsynaptic enhancement of cerebellar GABAergic transmission. **2005**, 25, 2108-16	37
2073	A cytosolic residue mediates Mg2+ block and regulates inward current amplitude of a transient receptor potential channel. **2005**, 25, 1234-9	58
2072	Role of endogenous TRPC6 channels in Ca2+ signal generation in A7r5 smooth muscle cells. **2005**, 280, 39786-94	132
2071	Canonical transient receptor potential 1 plays a role in basic fibroblast growth factor (bFGF)/FGF receptor-1-induced Ca2+ entry and embryonic rat neural stem cell proliferation. **2005**, 25, 2687-701	138
2070	Downregulation of transient receptor potential melastatin 8 by protein kinase C-mediated dephosphorylation. **2005**, 25, 11322-9	128
2069	Conservation of functional and pharmacological properties in the distantly related temperature sensors TRVP1 and TRPM8. **2005**, 68, 518-27	136

2068	Plasma membrane localization and function of TRPC1 is dependent on its interaction with beta-tubulin in retinal epithelium cells. **2005**, 22, 163-70	44
2067	PKD2 functions as an epidermal growth factor-activated plasma membrane channel. **2005**, 25, 8285-98	142
2066	The temperature-sensitive ion channel TRPV2 is endogenously expressed and functional in the primary sensory cell line F-11. **2005**, 15, 183-94	40
2065	Endogenous unsaturated C18 N-acylethanolamines are vanilloid receptor (TRPV1) agonists. **2005**, 280, 38496-504	143
2064	Phosphatidylinositol 4,5-bisphosphate rescues TRPM4 channels from desensitization. **2005**, 280, 39185-92	140
2063	TRPV4 channel is involved in the coupling of fluid viscosity changes to epithelial ciliary activity. **2005**, 168, 869-74	180
2062	Distinct calcium channels regulate responses of primary B lymphocytes to B cell receptor engagement and mechanical stimuli. **2005**, 174, 68-79	28
2061	A functional link between store-operated and TRPC channels revealed by the 3,5-bis(trifluoromethyl)pyrazole derivative, BTP2. **2005**, 280, 10997-1006	158
2060	The foot structure from the type 1 ryanodine receptor is required for functional coupling to store-operated channels. **2005**, 280, 24804-15	23
2059	The channel kinases TRPM6 and TRPM7 are functionally nonredundant. **2005**, 280, 37763-71	144
2058	Potentiation of TRPM7 inward currents by protons. **2005**, 126, 137-50	137
2057	Charge screening by internal pH and polyvalent cations as a mechanism for activation, inhibition, and rundown of TRPM7/MIC channels. **2005**, 126, 499-514	102
2056	Activation of the melastatin-related cation channel TRPM3 by D-erythro-sphingosine [corrected]. **2005**, 67, 798-805	128
2055	Regulation of TRP channels by phosphorylation. **2005**, 14, 273-80	59
2054	Camphor activates and strongly desensitizes the transient receptor potential vanilloid subtype 1 channel in a vanilloid-independent mechanism. **2005**, 25, 8924-37	290
2053	Teaching resources. TRP channels. **2005**, 2005, tr14	6
2052	Epithelial Ca2+ and Mg2+ channels in health and disease. **2005**, 16, 15-26	140
2051	Neurotrophin-mediated rapid signaling in the central nervous system: mechanisms and functions. **2005**, 20, 70-8	163

2050	Ion channels in smooth muscle: regulators of intracellular calcium and contractility. **2005**, 83, 215-42	137
2049	Using bioinformatics for drug target identification from the genome. **2005**, 5, 387-96	25
2048	International Union of Pharmacology. XLIX. Nomenclature and structure-function relationships of transient receptor potential channels. **2005**, 57, 427-50	308
2047	Structural determinants of TRPV1 functionality. **2005**, 25-37	
2046	STIM1, an essential and conserved component of store-operated Ca2+ channel function. **2005**, 169, 435-45	1463
2045	Calcium absorption across epithelia. **2005**, 85, 373-422	645
2044	Reviews of Physiology, Biochemistry and Pharmacology. **2005**,	
2043	Cell-cell interaction underlies formation of fluid in the male reproductive tract of the rat. **2005**, 125, 443-54	47
2042	Elucidation of mammalian bitter taste. **2005**, 154, 37-72	101
2041	Lipids as regulators of the activity of transient receptor potential type V1 (TRPV1) channels. **2005**, 77, 1651-66	85
2040	Gadolinium activates and sensitizes the vanilloid receptor TRPV1 through the external protonation sites. **2005**, 30, 207-17	51
2039	The non-selective cation-permeable channel TRPC3 is a tetrahedron with a cap on the large cytoplasmic end. **2005**, 333, 768-77	38
2038	Differential regulation of TRPM channels governs electrolyte homeostasis in the C. elegans intestine. **2005**, 1, 343-54	51
2037	Taste recognition: food for thought. **2005**, 48, 455-64	156
2036	Immunohistochemical localization of vanilloid receptor subtype 1 (TRPV1) in the guinea pig respiratory system. **2005**, 18, 187-97	63
2035	Gating of TRP channels: a voltage connection?. **2005**, 567, 35-44	214
2034	Melastatin-type transient receptor potential channel 7 is required for intestinal pacemaking activity. **2005**, 129, 1504-17	118
2033	Calcium channels and Ca2+ fluctuations in sperm physiology. **2005**, 243, 79-172	120

2032	A hot-sensing cold receptor: C-terminal domain determines thermosensation in transient receptor potential channels. **2006**, 26, 4835-40	243
2031	Trp ion channels and temperature sensation. **2006**, 29, 135-61	555
2030	Tissue distribution profiles of the human TRPM cation channel family. **2006**, 26, 159-78	239
2029	Structure-function relationship of the TRP channel superfamily. **2006**, 61-90	117
2028	Muscarinic acetylcholine receptors activate TRPC6 channels in PC12D cells via Ca2+ store-independent mechanisms. **2006**, 139, 459-70	17
2027	Jellyfish and other cnidarian envenomations cause pain by affecting TRPV1 channels. **2006**, 580, 5728-32	58
2026	Mechanical properties and consequences of stereocilia and extracellular links in vestibular hair bundles. **2006**, 90, 2786-95	27
2025	C-terminal charged cluster of MscL, RKKEE, functions as a pH sensor. **2006**, 90, 1992-8	37
2024	A finite element framework for studying the mechanical response of macromolecules: application to the gating of the mechanosensitive channel MscL. **2006**, 91, 1248-63	68
2023	Physiological Diversity in Insects: Ecological and Evolutionary Contexts. **2006**, 33, 50-152	373
2022	Permeation and selectivity of TRP channels. **2006**, 68, 685-717	442
2021	1,6-Diaminohexane contributes to the hexamethylene bisacetamide-induced erythroid differentiation pathway by stimulating Ca2+ release from inositol 1,4,5-trisphosphate-sensitive stores and promoting Ca2+ influx. **2006**, 445, 129-37	2
2020	Antisense knock down of TRPA1, but not TRPM8, alleviates cold hyperalgesia after spinal nerve ligation in rats. **2006**, 200, 112-23	161
2019	Stimulation of arachidonic acid release by vasopressin in A7r5 vascular smooth muscle cells mediated by Ca2+-stimulated phospholipase A2. **2006**, 580, 4114-20	6
2018	TRPA1 mediates the inflammatory actions of environmental irritants and proalgesic agents. **2006**, 124, 1269-82	1447
2017	Arachidonic acid can function as a signaling modulator by activating the TRPM5 cation channel in taste receptor cells. **2006**, 1761, 1078-84	46
2016	Permeation and inhibition of polycystin-L channel by monovalent organic cations. **2006**, 1758, 197-205	10
2015	Characterization of Ca2+ influx induced by dimethylphytosphingosine and lysophosphatidylcholine in U937 monocytes. **2006**, 348, 1116-22	15

2014	An introduction to TRP channels. **2006**, 68, 619-47	1181
2013	A road map for TR(I)Ps. **2006**, 22, 297-307	31
2012	Sensory transduction in cough-associated nerves. **2006**, 152, 243-54	29
2011	Modulation of temperature-sensitive TRP channels. **2006**, 17, 638-45	98
2010	lazaro encodes a lipid phosphate phosphohydrolase that regulates phosphatidylinositol turnover during Drosophila phototransduction. **2006**, 49, 533-46	60
2009	TRPA1 contributes to cold, mechanical, and chemical nociception but is not essential for hair-cell transduction. **2006**, 50, 277-89	1000
2008	Coiled coils direct assembly of a cold-activated TRP channel. **2006**, 51, 201-12	116
2007	The TRPM7 ion channel functions in cholinergic synaptic vesicles and affects transmitter release. **2006**, 52, 485-96	166
2006	Effect of morphine on the release of excitatory amino acids in the rat hind instep: Pain is modulated by the interaction between the peripheral opioid and glutamate systems. **2006**, 138, 1329-39	36
2005	Noxious cold stimulation induces mitogen-activated protein kinase activation in transient receptor potential (TRP) channels TRPA1- and TRPM8-containing small sensory neurons. **2006**, 140, 1337-48	36
2004	Immunohistochemical co-localization of transient receptor potential vanilloid (TRPV)1 and sensory neuropeptides in the guinea-pig respiratory system. **2006**, 141, 1533-43	105
2003	Ca2+ influx, but not Ca2+ release from internal stores, is required for the PACAP-induced increase in excitability in guinea pig intracardiac neurons. **2006**, 95, 2134-42	25
2002	Extrinsic Sensory Afferent Nerves Innervating the Gastrointestinal Tract. **2006**, 685-725	17
2001	Molecular Mechanisms of Intestinal Transport of Calcium, Phosphate, and Magnesium. **2006**, 1953-1981	1
2000	Temperature modulates taste responsiveness and stimulates gustatory neurons in the rat geniculate ganglion. **2006**, 95, 674-85	66
1999	Abstracts of the 24th and the 25th Scientific Meeting of the Hong Kong Society of Neurosciences. **2006**, 15, 111-156	
1998	The relationship of TRP channels to the pacemaker activity of interstitial cells of Cajal in the gastrointestinal tract. **2006**, 42, 1-7	28
1997	A Convenient Synthesis of 5?-Iodoresiniferatoxin (I-RTX). **2006**, 1, 1934578X0600101	

1996	Metabolische Regulation und neuronale Aktivität: Wie Hunger mobil macht. **2006**, 12, 228-233		
1995	Heterotrimeric G protein G alpha13-induced induction of cytokine mRNAs through two distinct pathways in cardiac fibroblasts. **2006**, 101, 144-50		15
1994	Induced TRPC1 expression sensitizes intestinal epithelial cells to apoptosis by inhibiting NF-kappaB activation through Ca2+ influx. **2006**, 397, 77-87		34
1993	Continuous tonic spike activity in spider warm cells in the absence of sensory input. **2006**, 96, 989-97		2
1992	Capsaicin receptor (TRPV1) and non-erosive reflux disease. **2006**, 18, 263-70		110
1991	Recent advances in renal tubular calcium reabsorption. **2006**, 15, 524-9		42
1990	Cool and menthol receptor TRPM8 in human urinary bladder disorders and clinical correlations. **2006**, 6, 6		134
1989	Quantitative multi-gene expression profiling of primary prostate cancer. **2006**, 66, 1521-34		91
1988	Mechanosensitive ion channels in skeletal muscle: a link in the membrane pathology of muscular dystrophy. **2006**, 33, 649-56		37
1987	TRPV1, but not P2X, requires cholesterol for its function and membrane expression in rat nociceptors. **2006**, 24, 1-6		110
1986	Capsaicin, transient receptor potential (TRP) protein subfamilies and the particular relationship between capsaicin receptors and small primary sensory neurons. **2006**, 81, 135-55		37
1985	Two members of the TRPP family of ion channels, Pkd1l3 and Pkd2l1, are co-expressed in a subset of taste receptor cells. **2006**, 98, 68-77		152
1984	Transcription of rat TRPV1 utilizes a dual promoter system that is positively regulated by nerve growth factor. **2007**, 101, 212-22		59
1983	Mucolipin-1 is a lysosomal membrane protein required for intracellular lactosylceramide traffic. **2006**, 7, 1388-98		129
1982	TRP channels as therapeutic targets: hot property, or time to cool down?. **2006**, 18, 590-4		31
1981	Nitric oxide activates TRP channels by cysteine S-nitrosylation. **2006**, 2, 596-607		420
1980	ION CHANNELS. **2006**, 147, S99-S125		78
1979	A mutation in Orai1 causes immune deficiency by abrogating CRAC channel function. *Nature*, **2006**, 441, 179-85	50.4	1781

1978	The cells and logic for mammalian sour taste detection. *Nature*, **2006**, 442, 934-8	50.4	597
1977	Activation of the transient receptor potential M2 channel and poly(ADP-ribose) polymerase is involved in oxidative stress-induced cardiomyocyte death. **2006**, 13, 1815-26		85
1976	TRPM2 activation by cyclic ADP-ribose at body temperature is involved in insulin secretion. **2006**, 25, 1804-15		332
1975	TRPC3 and TRPC6 are essential for angiotensin II-induced cardiac hypertrophy. **2006**, 25, 5305-16		313
1974	TRPC7 is a receptor-operated DAG-activated channel in human keratinocytes. **2006**, 126, 1982-93		36
1973	Human TRPC6 expressed in HEK 293 cells forms non-selective cation channels with limited Ca2+ permeability. **2006**, 572, 359-77		93
1972	mGluR1/5 subtype-specific calcium signalling and induction of long-term potentiation in rat hippocampal oriens/alveus interneurones. **2006**, 575, 115-31		91
1971	Distinct ASIC currents are expressed in rat putative nociceptors and are modulated by nerve injury. **2006**, 576, 215-34		85
1970	What is the hair cell transduction channel?. **2006**, 576, 23-8		77
1969	Angiotensin II activates two cation conductances with distinct TRPC1 and TRPC6 channel properties in rabbit mesenteric artery myocytes. **2006**, 577, 479-95		99
1968	Improved superfusion technique for rapid cooling or heating of cultured cells under patch-clamp conditions. **2006**, 151, 178-85		68
1967	TRP channels: molecular diversity and physiological function. **2006**, 13, 535-50		37
1966	Ca2+ channels and pulmonary endothelial permeability: insights from study of intact lung and chronic pulmonary hypertension. **2006**, 13, 725-39		53
1965	Crystal structure of the human TRPV2 channel ankyrin repeat domain. **2006**, 15, 2201-6		75
1964	A new hypothesis for Ca2+ flows in skeletal muscle and its implications for other cell types. **2006**, 44, 251-71		2
1963	Polycystic kidney disease and receptor for egg jelly is a plasma membrane protein of mouse sperm head. **2006**, 73, 350-60		33
1962	1,25-Dihydroxyvitamin D and 25-hydroxyvitamin D--mediated regulation of TRPV6 (a putative epithelial calcium channel) mRNA expression in Caco-2 cells. **2006**, 45, 196-204		29
1961	Interaction of the epithelial Ca2+ channels TRPV5 and TRPV6 with the intestine- and kidney-enriched PDZ protein NHERF4. **2006**, 452, 407-17		28

1960	Effects of intracellular pH and Ca2+ on the activity of stretch-sensitive cation channels in leech neurons. **2006**, 452, 435-43	5
1959	Twenty odd years of stretch-sensitive channels. **2006**, 453, 333-51	99
1958	The role of TRP channels in oxidative stress-induced cell death. **2006**, 209, 31-41	136
1957	On the role of pore helix in regulation of TRPV5 by extracellular protons. **2006**, 212, 191-8	15
1956	Emerging evidence indicates that physiologically relevant thermal stress regulates dendritic cell function. **2006**, 55, 292-8	72
1955	Focal and segmental glomerulosclerosis. **2006**, 63, 2506-11	27
1954	TRPV6 potentiates calcium-dependent cell proliferation. **2006**, 39, 163-73	81
1953	CaMKII inactivation by extracellular Ca(2+) depletion in dorsal root ganglion neurons. **2006**, 39, 445-54	17
1952	A mechanism distinct from the L-type Ca current or Na-Ca exchange contributes to Ca entry in rat ventricular myocytes. **2006**, 39, 417-23	18
1951	A TRPC-like non-selective cation current activated by alpha 1-adrenoceptors in rat mesenteric artery smooth muscle cells. **2006**, 40, 29-40	49
1950	Role of intracellular stores in the regulation of rhythmical [Ca2+]i changes in interstitial cells of Cajal from rabbit portal vein. **2006**, 40, 287-98	28
1949	TRP channels and Ca2+ signaling. **2006**, 40, 261-75	117
1948	The transient receptor potential vanilloid 1: role in airway inflammation and disease. **2006**, 533, 207-14	143
1947	Canonical transient receptor potential channels in disease: targets for novel drug therapy?. **2006**, 11, 924-30	11
1946	Calcium signaling in plant cell organelles delimited by a double membrane. **2006**, 1763, 1209-15	46
1945	Contractile mechanisms coupled to TRPA1 receptor activation in rat urinary bladder. **2006**, 72, 104-14	91
1944	The Ca2+-releasing messenger NAADP, a new player in the nervous system. **2006**, 99, 111-8	12
1943	Zinc and copper: pharmacological probes and endogenous modulators of neuronal excitability. **2006**, 111, 567-83	189

1942	TSPY potentiates cell proliferation and tumorigenesis by promoting cell cycle progression in HeLa and NIH3T3 cells. **2006**, 6, 154	77
1941	Tissue-specific expression of TRP channel genes in the mouse and its variation in three different mouse strains. **2006**, 7, 159	233
1940	Potentiation of TRPV3 channel function by unsaturated fatty acids. **2006**, 208, 201-12	105
1939	TRPV1 antagonists as a potential treatment for hyperalgesia. **2006**, 1, 65-76	41
1938	Chapter 4 TRPV1: A Polymodal Sensor in the Nociceptor Terminal. **2006**, 113-150	7
1937	Chapter 5 Nociceptive Signals to TRPV1 and its Clinical Potential. **2006**, 57, 151-180	2
1936	Chapter 12 Two-Pore Domain Potassium Channels in Sensory Transduction. **2006**, 353-377	
1935	The human transient receptor potential vanilloid type 6 distal promoter contains multiple vitamin D receptor binding sites that mediate activation by 1,25-dihydroxyvitamin D3 in intestinal cells. **2006**, 20, 1447-61	168
1934	Chapter 18 Itch and cold allodynia. **2006**, 81, 249-60	
1933	Activation of T cell calcium influx by the second messenger ADP-ribose. **2006**, 281, 2489-96	93
1932	Chapter 3 Nociceptors: neurogenic inflammation. **2006**, 81, 23-33	6
1931	Intracellular calcium, endothelial cells and angiogenesis. **2006**, 1, 105-19	87
1930	RGS2 inhibits the epithelial Ca2+ channel TRPV6. **2006**, 281, 29669-74	32
1929	Glucose-evoked alterations in connexin43-mediated cell-to-cell communication in human collecting duct: a possible role in diabetic nephropathy. **2006**, 291, F1045-51	25
1928	Innate immune response in CF airway epithelia: hyperinflammatory?. **2006**, 291, C218-30	145
1927	TREK-2 (K2P10.1) and TRESK (K2P18.1) are major background K+ channels in dorsal root ganglion neurons. **2006**, 291, C138-46	167
1926	WNK kinases influence TRPV4 channel function and localization. **2006**, 290, F1305-14	73
1925	TRPM2 is an ion channel that modulates hematopoietic cell death through activation of caspases and PARP cleavage. **2006**, 290, C1146-59	103

1924	Conserved cysteine residues in the pore region are obligatory for human TRPM2 channel function. **2006**, 291, C1022-8	37
1923	TRPC1 functions as a store-operated Ca2+ channel in intestinal epithelial cells and regulates early mucosal restitution after wounding. **2006**, 290, G782-92	98
1922	Ca2+-activated Cl- current from human bestrophin-4 in excised membrane patches. **2006**, 127, 749-54	45
1921	Mechanosensitive channels: therapeutic targets in the myocardium?. **2006**, 12, 3645-63	29
1920	Physiology and pharmacology of the vanilloid receptor. **2006**, 4, 1-15	74
1919	E3-targeted anti-TRPC5 antibody inhibits store-operated calcium entry in freshly isolated pial arterioles. **2006**, 291, H2653-9	73
1918	Thermal sensitivity of isolated vagal pulmonary sensory neurons: role of transient receptor potential vanilloid receptors. **2006**, 291, R541-50	58
1917	Regulation of TRPV1 by a novel renally expressed rat TRPV1 splice variant. **2006**, 290, F117-26	39
1916	Glycosylation of the osmoresponsive transient receptor potential channel TRPV4 on Asn-651 influences membrane trafficking. **2006**, 290, F1103-9	63
1915	Polycystin-2 immunolocalization and function in zebrafish. **2006**, 17, 2706-18	90
1914	Antidipsogenic effects of a TRPV4 agonist, 4alpha-phorbol 12,13-didecanoate, injected into the cerebroventricle. **2006**, 290, R1736-41	21
1913	Regulation of TRPV5 and TRPV6 by associated proteins. **2006**, 290, F1295-302	77
1912	TRPM7 regulates cell adhesion by controlling the calcium-dependent protease calpain. **2006**, 281, 11260-70	182
1911	Calcium-dependent growth regulation of small cell lung cancer cells by neuropeptides. **2006**, 13, 1069-84	19
1910	Action of TFII-I outside the nucleus as an inhibitor of agonist-induced calcium entry. **2006**, 314, 122-5	85
1909	Transient receptor potential family members PKD1L3 and PKD2L1 form a candidate sour taste receptor. **2006**, 103, 12569-74	376
1908	Modulation of sensory neuron mechanotransduction by PKC- and nerve growth factor-dependent pathways. **2006**, 103, 4699-704	67
1907	Subcellular translocation of the eGFP-tagged TRPL channel in Drosophila photoreceptors requires activation of the phototransduction cascade. **2006**, 119, 2592-603	44

1906	Calcineurin-dependent cardiomyopathy is activated by TRPC in the adult mouse heart. **2006**, 20, 1660-70	222
1905	TRPV1 antagonists elevate cell surface populations of receptor protein and exacerbate TRPV1-mediated toxicities in human lung epithelial cells. **2006**, 89, 278-86	30
1904	Intracellular coiled-coil domain engaged in subunit interaction and assembly of melastatin-related transient receptor potential channel 2. **2006**, 281, 38748-56	51
1903	Unexpected role of TRPC6 channel in familial nephrotic syndrome: does it have clinical implications?. **2006**, 17, 378-87	35
1902	Expression of transient receptor channel proteins in human fundal myometrium in pregnancy. **2006** , 13, 217-25	24
1901	Differential role of transient receptor potential channels in Ca2+ entry and proliferation of prostate cancer epithelial cells. **2006**, 66, 2038-47	162
1900	Functional expression of thermo-transient receptor potential channels in dental primary afferent neurons: implication for tooth pain. **2006**, 281, 17304-17311	109
1899	TRPM8 in prostate cancer cells: a potential diagnostic and prognostic marker with a secretory function?. **2006**, 13, 27-38	106
1898	Transient receptor potential vanilloid channels functioning in transduction of osmotic stimuli. **2006**, 191, 515-23	60
1897	PGE2-induced apoptotic cell death in K562 human leukaemia cells. **2006**, 17, 201-10	43
1896	Functional TRPM7 channels accumulate at the plasma membrane in response to fluid flow. **2006**, 98, 245-53	198
1895	Functional characterization of homo- and heteromeric channel kinases TRPM6 and TRPM7. **2006**, 127, 525-37	300
1894	TRPgamma channels are inhibited by cAMP and contribute to pacemaking in neurosecretory insect neurons. **2006**, 281, 3227-36	22
1893	Functional coupling between TRPC3 and RyR1 regulates the expressions of key triadic proteins. **2006**, 281, 10042-8	75
1892	Ion Channel Architecture of the Renal Microcirculation. **2006**, 2, 69-81	3
1891	The action of prostaglandins on ion channels. **2006**, 4, 41-57	37
1890	Neuronal control of skin function: the skin as a neuroimmunoendocrine organ. **2006**, 86, 1309-79	418
1889	Upregulated TRPC1 channel in vascular injury in vivo and its role in human neointimal hyperplasia. **2006**, 98, 557-63	172

1888	TRPV6 exhibits unusual patterns of polymorphism and divergence in worldwide populations. **2006**, 15, 2106-13	44
1887	A sphingosine-1-phosphate-activated calcium channel controlling vascular smooth muscle cell motility. **2006**, 98, 1381-9	143
1886	Bestrophin-2 is a candidate calcium-activated chloride channel involved in olfactory transduction. **2006**, 103, 12929-34	110
1885	The orexin OX1 receptor regulates Ca2+ entry via diacylglycerol-activated channels in differentiated neuroblastoma cells. **2006**, 26, 10658-66	49
1884	The cold and menthol receptor TRPM8 contains a functionally important double cysteine motif. **2006**, 281, 37353-60	47
1883	Structure of the N-terminal ankyrin repeat domain of the TRPV2 ion channel. **2006**, 281, 25006-10	99
1882	General and cell-type specific mechanisms target TRPP2/PKD-2 to cilia. **2006**, 133, 3859-70	83
1881	Insights on TRP channels from in vivo studies in Drosophila. **2006**, 68, 649-84	64
1880	Interaction between TRPC channel subunits in endothelial cells. **2006**, 26, 225-40	29
1879	Regulation of the transient receptor potential channel TRPM2 by the Ca2+ sensor calmodulin. **2006**, 281, 9076-85	97
1878	Casein kinase II and calcineurin modulate TRPP function and ciliary localization. **2006**, 17, 2200-11	57
1877	Capsaicinol: synthesis by allylic oxidation and its effect on TRPV1-expressing cells and adrenaline secretion in rats. **2006**, 70, 1904-12	9
1876	Transient receptor potential channels in cardiovascular function and disease. **2006**, 99, 119-31	311
1875	TRP channels in C. elegans. **2006**, 68, 719-36	81
1874	The micromachinery of mechanotransduction in hair cells. **2007**, 30, 339-65	169
1873	Induction of TRPC6 channel in acquired forms of proteinuric kidney disease. **2007**, 18, 29-36	233
1872	Inhibition of TRPP3 channel by amiloride and analogs. **2007**, 72, 1576-85	50
1871	Yeast gain-of-function mutations reveal structure-function relationships conserved among different subfamilies of transient receptor potential channels. **2007**, 104, 19607-12	37

1870	Liposome reconstitution and modulation of recombinant N-methyl-D-aspartate receptor channels by membrane stretch. **2007**, 104, 1540-5	65
1869	Modulation of the cold-activated channel TRPM8 by lysophospholipids and polyunsaturated fatty acids. **2007**, 27, 3347-55	138
1868	Molecular determinants of Mg2+ and Ca2+ permeability and pH sensitivity in TRPM6 and TRPM7. **2007**, 282, 25817-30	136
1867	Genetic evidence supporting caveolae microdomain regulation of calcium entry in endothelial cells. **2007**, 282, 16631-43	118
1866	Potentiation of TRPC5 by protons. **2007**, 282, 33868-33878	67
1865	Galpha12/13-mediated up-regulation of TRPC6 negatively regulates endothelin-1-induced cardiac myofibroblast formation and collagen synthesis through nuclear factor of activated T cells activation. **2007**, 282, 23117-28	106
1864	Dissection of the components for PIP2 activation and thermosensation in TRP channels. **2007**, 104, 10246-51	171
1863	Activation of TRPA1 channels by the fatty acid amide hydrolase inhibitor 3'-carbamoylbiphenyl-3-yl cyclohexylcarbamate (URB597). **2007**, 71, 1209-16	63
1862	Three-dimensional reconstruction using transmission electron microscopy reveals a swollen, bell-shaped structure of transient receptor potential melastatin type 2 cation channel. **2007**, 282, 36961-70	55
1861	Pharmacological characterization and molecular determinants of the activation of transient receptor potential V2 channel orthologs by 2-aminoethoxydiphenyl borate. **2007**, 72, 1258-68	78
1860	Activating mutation in a mucolipin transient receptor potential channel leads to melanocyte loss in varitint-waddler mice. **2007**, 104, 18321-6	165
1859	The vanilloid receptor TRPV1 is tonically activated in vivo and involved in body temperature regulation. **2007**, 27, 3366-74	253
1858	Activation of TRPA1 channel facilitates excitatory synaptic transmission in substantia gelatinosa neurons of the adult rat spinal cord. **2007**, 27, 4443-51	120
1857	OS-9 regulates the transit and polyubiquitination of TRPV4 in the endoplasmic reticulum. **2007**, 282, 36561-70	55
1856	Transient receptor potential melastatin 7-like current in human head and neck carcinoma cells: role in cell proliferation. **2007**, 67, 10929-38	115
1855	Cold transiently activates calcium-permeable channels in Arabidopsis mesophyll cells. **2007**, 143, 487-94	82
1854	Transient receptor potential ion channels as participants in thermosensation and thermoregulation. **2007**, 292, R64-76	288
1853	Phospholipase C-dependent control of cardiac calcium homeostasis involves a TRPC3-NCX1 signaling complex. **2007**, 73, 111-9	73

1852	Upregulation of Na+/Ca2+ exchanger contributes to the enhanced Ca2+ entry in pulmonary artery smooth muscle cells from patients with idiopathic pulmonary arterial hypertension. **2007**, 292, C2297-305	74
1851	Role of Ca2+ in responses of airway epithelia to Pseudomonas aeruginosa, flagellin, ATP, and thapsigargin. **2007**, 292, L353-64	38
1850	Thermosensitive TRPV channel subunits coassemble into heteromeric channels with intermediate conductance and gating properties. **2007**, 129, 191-207	149
1849	New Perspectives in Magnesium Research. **2007**,	9
1848	Modification of cytosolic calcium signaling by subplasmalemmal microdomains. **2007**, 292, F1827-45	13
1847	Modulation of ion channels in pulmonary arterial hypertension. **2007**, 13, 2443-55	38
1846	Central role of TRPM4 channels in cerebral blood flow regulation. **2007**, 38, 2322-8	72
1845	Polymodal regulation of NMDA receptor channels. **2007**, 1, 334-43	34
1844	A helix-breaking mutation in TRPML3 leads to constitutive activity underlying deafness in the varitint-waddler mouse. **2007**, 104, 19583-8	135
1843	Molecular Pain. **2007**,	0
1842	Transient receptor potential channels and intracellular signaling. **2007**, 256, 35-67	9
1841	Mechanosensitive channels in neurite outgrowth. **2007**, 59, 111-25	6
1840	The Cytoskeletal Connection to Ion Channels as a Potential Mechanosensory Mechanism: Lessons from Polycystin-2 (TRPP2). **2007**, 59, 233-96	4
1839	TrpC3/C7 and Slo2.1 are molecular targets for metabotropic glutamate receptor signaling in rat striatal cholinergic interneurons. **2007**, 27, 8845-56	65
1838	Neuropathic pain: strategies in drug discovery and treatment. **2007**, 2, 169-84	17
1837	Calcium signalling and cancer cell growth. **2007**, 45, 405-27	57
1836	Emergence of functional sensory subtypes as defined by transient receptor potential channel expression. **2007**, 27, 2435-43	162
1835	Open channel block by Ca2+ underlies the voltage dependence of drosophila TRPL channel. **2007**, 129, 17-28	30

1834	Epoxyeicosatrienoic acids regulate Trp channel dependent Ca2+ signaling and hyperpolarization in endothelial cells. **2007**, 27, 2612-8	143
1833	The role of the N terminus and transmembrane domain of TRPM8 in channel localization and tetramerization. **2007**, 282, 36474-80	58
1832	Properties and Mechanism of the Mechanosensitive Ion Channel Inhibitor GsMTx4, a Therapeutic Peptide Derived from Tarantula Venom. **2007**, 59, 81-109	17
1831	Podocin organizes ion channel-lipid supercomplexes: implications for mechanosensation at the slit diaphragm. **2007**, 106, e27-31	71
1830	Protein kinase C regulates vascular myogenic tone through activation of TRPM4. **2007**, 292, H2613-22	125
1829	Utility of large-scale transiently transfected cells for cell-based high-throughput screens to identify transient receptor potential channel A1 (TRPA1) antagonists. **2007**, 12, 61-9	32
1828	Warming up the cold reception at a TRPM8 function. **2007**, 27, 7617-8	1
1827	A role of the transient receptor potential domain of vanilloid receptor I in channel gating. **2007**, 27, 11641-50	71
1826	TRPC3 channels are necessary for brain-derived neurotrophic factor to activate a nonselective cationic current and to induce dendritic spine formation. **2007**, 27, 5179-89	162
1825	Influence of local treatments with capsaicin or allyl isothiocyanate in the sensitization phase of a fluorescein-isothiocyanate-induced contact sensitivity model. **2007**, 143, 144-54	24
1824	Direct mechano-stress sensitivity of TRPM7 channel. **2007**, 19, 1-8	104
1823	Activation of TRPM7 channels by phospholipase C-coupled receptor agonists. **2007**, 282, 232-9	91
1822	TRPV6 is a Ca2+ entry channel essential for Ca2+-induced differentiation of human keratinocytes. **2007**, 282, 22582-91	57
1821	Reconstitution and characterization of a nicotinic acid adenine dinucleotide phosphate (NAADP)-sensitive Ca2+ release channel from liver lysosomes of rats. **2007**, 282, 25259-69	112
1820	Hyperforin--a key constituent of St. John's wort specifically activates TRPC6 channels. **2007**, 21, 4101-11	186
1819	STAM and Hrs down-regulate ciliary TRP receptors. **2007**, 18, 3277-89	48
1818	Membrane stretch-induced activation of a TRPM4-like nonselective cation channel in cerebral artery myocytes. **2007**, 103, 417-26	102
1817	BDNF induces calcium elevations associated with IBDNF, a nonselective cationic current mediated by TRPC channels. **2007**, 98, 2476-82	53

1816	Capsaicin, A Ligand for Vanilloid Receptor-1, Transduces Suppressive Signal for Osteoclast Differentiation in Bone. **2007**, 53, 240-244	1
1815	Subunit interaction in channel assembly and functional regulation of transient receptor potential melastatin (TRPM) channels. **2007**, 35, 86-8	30
1814	Bipolar phospholipid sensing by TRPC5 calcium channel. **2007**, 35, 101-4	12
1813	Regulation of TRP channels: a voltage-lipid connection. **2007**, 35, 105-8	54
1812	TRP channels and kidney disease: lessons from polycystic kidney disease. **2007**, 35, 124-8	29
1811	Ion channels in pain transmission. **2007**, 45, 107-20	2
1810	The rat vanilloid receptor splice variant VR.5'sv blocks TRPV1 activation. **2007**, 18, 969-73	31
1809	Physiology of epithelial Ca2+ and Mg2+ transport. **2007**, 158, 77-160	59
1808	Prostaglandin E2 enhances the sensitizing effect of hyperthermia on pulmonary C-fibers in rats. **2007**, 156, 241-9	5
1807	Contributions of extracellular and intracellular Ca2+ to regulation of sperm motility: Release of intracellular stores can hyperactivate CatSper1 and CatSper2 null sperm. **2007**, 303, 214-21	94
1806	Mechanosensitive ion channels and the peptide inhibitor GsMTx-4: history, properties, mechanisms and pharmacology. **2007**, 49, 249-70	129
1805	IA in play. **2007**, 54, 850-2	11
1804	TRP channel structural biology: new roles for an old fold. **2007**, 54, 847-50	13
1803	Novel vanilloid receptor-1 antagonists: 3. The identification of a second-generation clinical candidate with improved physicochemical and pharmacokinetic properties. **2007**, 50, 3528-39	51
1802	Membrane permeabilization and cell damage by ultrashort electric field shocks. **2007**, 465, 109-18	148
1801	TRPP2 and autosomal dominant polycystic kidney disease. **2007**, 1772, 836-50	59
1800	TRP channels: targets for the relief of pain. **2007**, 1772, 989-1003	246
1799	TRP channels in kidney disease. **2007**, 1772, 928-36	49

1798	TRP channels in disease. **2007**, 1772, 805-12	222
1797	TRP channels as novel players in the pathogenesis and therapy of itch. **2007**, 1772, 1004-21	68
1796	TRPC6 and FSGS: the latest TRP channelopathy. **2007**, 1772, 859-68	58
1795	TRP's: links to schizophrenia?. **2007**, 1772, 968-77	18
1794	IP3-independent signalling of OX1 orexin/hypocretin receptors to Ca2+ influx and ERK. **2007**, 353, 475-80	29
1793	Lack of phospholipase C-delta1 induces skin inflammation. **2007**, 356, 912-8	38
1792	TRPV1 as a key determinant in ciguatera and neurotoxic shellfish poisoning. **2007**, 361, 214-7	48
1791	The neuronal channel NALCN contributes resting sodium permeability and is required for normal respiratory rhythm. **2007**, 129, 371-83	232
1790	SnapShot: mammalian TRP channels. **2007**, 129, 220	105
1789	TRPM8 Axonal expression is decreased in painful human teeth with irreversible pulpitis and cold hyperalgesia. **2007**, 33, 1167-71	28
1788	Neophobia, sensory and cognitive functions, and hedonic responses in vitamin D receptor mutant mice. **2007**, 104, 274-80	45
1787	Induction of total insensitivity to capsaicin and hypersensitivity to garlic extract in human by decreased expression of TRPV1. **2007**, 411, 87-91	27
1786	Cardiovascular Activity. **2007**, 47-391	
1785	TRPC channels: integrators of multiple cellular signals. **2007**, 575-91	38
1784	Molecular Sensors for Cardiovascular Homeostasis. **2007**,	1
1783	Encyclopedia of Pain. **2007**, 2466-2470	
1782	Transient receptor potential channel TRPM8 agonists stimulate calcium influx and neurotensin secretion in neuroendocrine tumor cells. **2007**, 85, 81-92	36
1781	Biological Membrane Ion Channels. **2007**,	36

1780	Encyclopedia of Pain. **2007**, 2485-2485	
1779	Transient Receptor Potential (TRP) Channels. **2007**,	16
1778	TRPM5 and taste transduction. **2007**, 287-98	63
1777	Mechanisms of activation and regulation of the heat shock-sensitive signaling pathways. **2007**, 594, 100-13	45
1776	Calcium Signalling and Disease. **2007**,	20
1775	Taste receptors in the gastrointestinal tract. V. Acid sensing in the gastrointestinal tract. **2007**, 292, G699-705	65
1774	Yeast screens show aromatic residues at the end of the sixth helix anchor transient receptor potential channel gate. **2007**, 104, 15555-9	43
1773	Characterization of SB-705498, a potent and selective vanilloid receptor-1 (VR1/TRPV1) antagonist that inhibits the capsaicin-, acid-, and heat-mediated activation of the receptor. **2007**, 321, 1183-92	77
1772	Chapter 6 Advances in Transient Receptor Potential Modulators. **2007**, 81-91	2
1771	Structure elucidation of a pungent compound in black cardamom: Amomum tsao-ko Crevost et Lemari□(Zingiberaceae). **2007**, 55, 10902-7	19
1770	Transient receptor potential cation channels in disease. **2007**, 87, 165-217	1100
1769	Transient receptor potential channel A1 is directly gated by calcium ions. **2007**, 282, 13180-9	246
1768	The Ca2+□alcineurin□NFAT signalling pathway. **2007**, 41, 365-401	11
1767	Lipid stress at play: mechanosensitivity of voltage-gated channels. **2007**, 59, 297-338	37
1766	Capsaicin and Capsaicinoids. 73-109	1
1765	Nitric Oxide and Plant Ion Channel Control. **2006**, 153-171	11
1764	Ion Channels □Ligand Gated. **2007**, 877-918	3
1763	Calcium controls smooth muscle TRPC gene transcription via the CaMK/calcineurin-dependent pathways. **2007**, 292, C553-63	32

1762	An analysis of the effects of stretch on IGF-I secretion from rat ventricular fibroblasts. **2007**, 293, H677-83	19
1761	Metabotropic glutamate receptors in the lateral superior olive activate TRP-like channels: age- and experience-dependent regulation. **2007**, 97, 3365-75	23
1760	Ca2+ signaling in the inner ear. **2007**, 22, 131-44	38
1759	Basal calcium entry in retinal pigment epithelial cells is mediated by TRPC channels. **2007**, 48, 5767-72	37
1758	Synthesis of Sapintoxin D and N-Methylanthranilate-Based Fluorescent Bioprobes. **2007**, 2, 1934578X0700200	
1757	Antagonist effect of flufenamic acid on TRPM2 cation channels activated by hydrogen peroxide. **2007**, 25, 383-7	28
1756	Reactivity recognition by TRPA1 channels. **2007**, 8, 979-80	11
1755	Chemotactic peptide fMetLeuPhe induces translocation of the TRPV2 channel in macrophages. **2007**, 210, 692-702	95
1754	Cellular subtype distribution and developmental regulation of TRPC channel members in the mouse dorsal root ganglion. **2007**, 503, 35-46	64
1753	Structure-activity relationships of the ultrapotent vanilloid resiniferatoxin (RTX): the homovanillyl moiety. **2007**, 17, 132-5	12
1752	Electrophysiological and pharmacological validation of vagal afferent fiber type of neurons enzymatically isolated from rat nodose ganglia. **2007**, 164, 75-85	64
1751	TRP channels and lipids: from Drosophila to mammalian physiology. **2007**, 578, 9-24	142
1750	TRPpathies. **2007**, 578, 641-53	53
1749	C-type natriuretic peptide activates a non-selective cation current in acutely isolated rat cardiac fibroblasts via natriuretic peptide C receptor-mediated signalling. **2007**, 580, 255-74	61
1748	TRPC-like conductance mediates restoration of intracellular Ca2+ in cochlear outer hair cells in the guinea pig and rat. **2007**, 579, 101-13	27
1747	Bidirectional shifts of TRPM8 channel gating by temperature and chemical agents modulate the cold sensitivity of mammalian thermoreceptors. **2007**, 581, 155-74	89
1746	Transient receptor potential TRPA1 channel desensitization in sensory neurons is agonist dependent and regulated by TRPV1-directed internalization. **2007**, 583, 175-93	211
1745	Phosphatidylinositol 4,5-bisphosphate regulates inspiratory burst activity in the neonatal mouse preBötzinger complex. **2007**, 582, 1047-58	81

1744	Voltage is a partial activator of rat thermosensitive TRP channels. **2007**, 585, 469-82		144
1743	TRPM8 voltage sensor mutants reveal a mechanism for integrating thermal and chemical stimuli. **2007**, 3, 174-82		218
1742	Direct activation of the ion channel TRPA1 by Ca2+. **2007**, 10, 277-9		406
1741	TRPC channels promote cerebellar granule neuron survival. **2007**, 10, 559-67		191
1740	The neuronal background K2P channels: focus on TREK1. **2007**, 8, 251-61		375
1739	TRP channels in mechanosensation: direct or indirect activation?. **2007**, 8, 510-21		374
1738	Ion Channels. **2007**, 150, S96-S121		2
1737	Methyl p-hydroxybenzoate causes pain sensation through activation of TRPA1 channels. **2007**, 151, 153-60		43
1736	Myosin light chain kinase-independent inhibition by ML-9 of murine TRPC6 channels expressed in HEK293 cells. **2007**, 152, 122-31		25
1735	Noxious compounds activate TRPA1 ion channels through covalent modification of cysteines. *Nature*, **2007**, 445, 541-5	50.4	882
1734	Drosophila hygrosensation requires the TRP channels water witch and nanchung. *Nature*, **2007**, 450, 294-8	50.4	138
1733	Plasmodium cysteine repeat modular proteins 1-4: complex proteins with roles throughout the malaria parasite life cycle. **2007**, 9, 1466-80		42
1732	Ethanol inhibits cold-menthol receptor TRPM8 by modulating its interaction with membrane phosphatidylinositol 4,5-bisphosphate. **2007**, 100, 211-24		50
1731	Direct binding of alpha-actinin enhances TRPP3 channel activity. **2007**, 103, 2391-400		71
1730	Expression of thermosensitive two-pore domain K+ channels in human keratinocytes cell line HaCaT cells. **2007**, 16, 1016-22		19
1729	G1 cell cycle arrest by amlodipine, a dihydropyridine Ca2+ channel blocker, in human epidermoid carcinoma A431 cells. **2007**, 73, 943-53		35
1728	Capsaicin-induced avoidance behavior in the terrestrial Gastropoda Megalobulimus abbreviatus: evidence for TRPV-1 signaling and opioid modulation in response to chemical noxious stimuli. **2007**, 148, 286-91		10
1727	TRPM4 controls insulin secretion in pancreatic beta-cells. **2007**, 41, 51-61		138

1726	Prospects for prostate cancer imaging and therapy using high-affinity TRPM8 activators. **2007**, 41, 285-94	59
1725	Many cold sensitive peripheral neurons of the mouse do not express TRPM8 or TRPA1. **2007**, 41, 331-42	97
1724	Identification of tyrosines in the putative regulatory site of the Ca2+ channel TRPV6. **2007**, 42, 91-102	13
1723	Signalling to transcription: store-operated Ca2+ entry and NFAT activation in lymphocytes. **2007**, 42, 145-56	240
1722	ThermoTRP channels as modular proteins with allosteric gating. **2007**, 42, 427-38	159
1721	Cell biology of polycystin-2. **2007**, 19, 444-53	60
1720	From chills to chilis: mechanisms for thermosensation and chemesthesis via thermoTRPs. **2007**, 17, 490-7	144
1719	Transient receptor potential channels as novel effectors of brain-derived neurotrophic factor signaling: potential implications for Rett syndrome. **2007**, 113, 394-409	42
1718	The human corneal endothelium: new insights into electrophysiology and ion channels. **2007**, 26, 359-78	50
1717	Differential gene expression and lipid metabolism in fatty liver induced by acute ethanol treatment in mice. **2007**, 223, 225-33	78
1716	Dynamic expression of the osmosensory channel trpv4 in multiple developing organs in zebrafish. **2007**, 7, 480-4	41
1715	TRPCs as MS Channels. **2007**, 59, 191-231	7
1714	A curcumin-based 1-week triple therapy for eradication of Helicobacter pylori infection: something to learn from failure?. **2007**, 12, 238-43	84
1713	Concentration-detection functions for eye irritation evoked by homologous n-alcohols and acetates approaching a cut-off point. **2007**, 182, 71-9	13
1712	Regulation of TRPV5 single-channel activity by intracellular pH. **2007**, 220, 79-85	17
1711	Transient receptor potential (TRP) protein 7 acts as a G protein-activated Ca2+ channel mediating angiotensin II-induced myocardial apoptosis. **2007**, 294, 205-15	76
1710	New molecular mechanisms on the activation of TRPM2 channels by oxidative stress and ADP-ribose. **2007**, 32, 1990-2001	241
1709	Ion channel gene expression in the inner ear. **2007**, 8, 305-28	44

1708	Regulation of TRP channels by PIP(2). **2007**, 453, 753-62	77
1707	Evidence that TRPC4 supports the calcium selective I(CRAC)-like current in human gingival keratinocytes. **2007**, 453, 879-89	26
1706	Regulation of transient receptor potential (TRP) channels by phosphoinositides. **2007**, 455, 157-68	95
1705	Dual effects of RAS blockade on blood pressure and podocyte function. **2007**, 9, 403-8	34
1704	Comparative molecular biological analysis of membrane transport genes in organisms. **2008**, 66, 565-85	26
1703	A calcium influx pathway regulated separately by oxidative stress and ADP-Ribose in TRPM2 channels: single channel events. **2008**, 33, 1256-62	79
1702	A model of calcium signaling and degranulation dynamics induced by laser irradiation in mast cells. **2008**, 53, 2315-2325	8
1701	Phospholipase C mediated modulation of TRPV1 channels. **2008**, 37, 153-63	76
1700	Irritant-induced chronic cough: irritant-induced TRPpathy. **2008**, 186 Suppl 1, S88-93	25
1699	TRPC channels and diacylglycerol dependent calcium signaling in rat sensory neurons. **2008**, 130, 655-67	32
1698	TRP channels and mechanosensory transduction: insights into the arterial myogenic response. **2008** , 456, 529-40	82
1697	Transient receptor potential vanilloid 4 deficiency suppresses unloading-induced bone loss. **2008**, 216, 47-53	88
1696	TRPC5 channels undergo changes in gating properties during the activation-deactivation cycle. **2008**, 216, 162-71	27
1695	Now we are talking sense! Functional approaches to novel nutraceuticals and cosmeceuticals. **2008**, 3, 1147-56	8
1694	[7-aminoactinomycin as a fluorescent probe for DNA unwinding and denaturation]. **2008**, 34, 781-5	1
1693	TRPV5 and TRPV6 calcium channels in human T cells. **2008**, 2, 584-589	1
1692	Molecular mechanisms of TRPV4-mediated neural signaling. **2008**, 1144, 42-52	68
1691	Physiological functions of phospholipase C delta-type. **2008**, 48, 261-73	3

1690	Submembraneous microtubule cytoskeleton: biochemical and functional interplay of TRP channels with the cytoskeleton. **2008**, 275, 4684-99		27
1689	Identification of novel sense and antisense transcription at the TRPM2 locus in cancer. **2008**, 18, 1128-40		84
1688	Gq-coupled receptors as mechanosensors mediating myogenic vasoconstriction. **2008**, 27, 3092-103		269
1687	The type IV mucolipidosis-associated protein TRPML1 is an endolysosomal iron release channel. *Nature*, **2008**, 455, 992-6	50.4	398
1686	Differential expression of ionic conductances in interstitial cells of Cajal in the murine gastric antrum. **2008**, 586, 859-73		17
1685	Natriuretic peptide C receptor signalling in the heart and vasculature. **2008**, 586, 353-66		147
1684	TRP channels entering the structural era. **2008**, 586, 3565-75		67
1683	TRPML3 mutations cause impaired mechano-electrical transduction and depolarization by an inward-rectifier cation current in auditory hair cells of varitint-waddler mice. **2008**, 586, 5403-18		51
1682	Hypoosmotic- and pressure-induced membrane stretch activate TRPC5 channels. **2008**, 586, 5633-49		95
1681	Inhibition of the transient receptor potential cation channel TRPM2 by 2-aminoethoxydiphenyl borate (2-APB). **2008**, 153, 1324-30		152
1680	Ion Channels. **2008**, 153, S112-S145		15
1679	Essential function for the calcium sensor STIM1 in mast cell activation and anaphylactic responses. **2008**, 9, 81-8		268
1678	TRPM2-mediated Ca2+influx induces chemokine production in monocytes that aggravates inflammatory neutrophil infiltration. **2008**, 14, 738-47		434
1677	A single N-terminal cysteine in TRPV1 determines activation by pungent compounds from onion and garlic. **2008**, 11, 255-61		166
1676	Transient receptor potential (TRP) channels, vascular tone and autoregulation of cerebral blood flow. **2008**, 35, 1116-20		101
1675	Stim, ORAI and TRPC channels in the control of calcium entry signals in smooth muscle. **2008**, 35, 1127-33		90
1674	Suppression of transient receptor potential melastatin 7 channel induces cell death in gastric cancer. **2008**, 99, 2502-9		102
1673	Inhibition of transient receptor potential canonical channels impairs cytokinesis in human malignant gliomas. **2008**, 41, 98-121		57

1672	Distinct protein domains regulate ciliary targeting and function of C. elegans PKD-2. **2008**, 314, 825-33	11
1671	Expression of trpC1 and trpC6 orthologs in zebrafish. **2008**, 8, 291-6	15
1670	Changes in osmolality modulate voltage-gated calcium channels in trigeminal ganglion neurons. **2008**, 1208, 56-66	25
1669	Expression and localisation of TRPC channels in immortalised GnRH neurons. **2008**, 1230, 27-36	8
1668	Capsaicin: A review of its pharmacology and clinical applications. **2008**, 19, 338-343	149
1667	Sphingolipid metabolites selectively elicit increases in nuclear calcium concentration in cell suspension cultures and in isolated nuclei of tobacco. **2008**, 43, 29-37	28
1666	TRPC channels determine human keratinocyte differentiation: new insight into basal cell carcinoma. **2008**, 43, 492-505	56
1665	Interplay between TRP channels and the cytoskeleton in health and disease. **2008**, 87, 631-40	43
1664	Cell shape: taking the heat. **2008**, 18, R470-2	3
1663	Role of mechanical stress in regulating airway surface hydration and mucus clearance rates. **2008**, 163, 189-201	105
1662	Molecular basis of the mammalian pressure-sensitive ion channels: focus on vascular mechanotransduction. **2008**, 97, 180-95	46
1661	Voltage-independent calcium influx in smooth muscle. **2008**, 98, 10-23	43
1660	A cut-off in ocular chemesthesis from vapors of homologous alkylbenzenes and 2-ketones as revealed by concentration-detection functions. **2008**, 230, 298-303	11
1659	Genetics of Mechanoreceptor Evolution and Development. **2008**, 75-105	1
1658	Effects of antioxidants on calcium influx through TRPM2 channels in transfected cells activated by hydrogen peroxide. **2008**, 270, 152-8	45
1657	Local Regulation of Microvascular Perfusion. **2008**, 161-284	7
1656	Selective role for TRPV4 ion channels in visceral sensory pathways. **2008**, 134, 2059-69	200
1655	Ocular Transporters In Ophthalmic Diseases And Drug Delivery. **2008**,	6

1654	Vasospasm in traumatic brain injury. **2008**, 104, 421-425	11
1653	Direct activation of transient receptor potential vanilloid 1(TRPV1) by diacylglycerol (DAG). **2008**, 4, 42	82
1652	Influence of TRPV1 on diabetes-induced alterations in thermal pain sensitivity. **2008**, 4, 9	118
1651	Local Regulation of Microvascular Perfusion. **2008**, 161-284	32
1650	Emerging drugs for treatment of overactive bladder and detrusor overactivity. **2008**, 13, 431-46	18
1649	Hair Cell Transduction and Adaptation: Physiology and Molecular Mechanisms. **2008**, 263-292	
1648	A primer on ankyrin repeat function in TRP channels and beyond. **2008**, 4, 372-9	147
1647	Sensing with Ion Channels. **2008**,	2
1646	ACh-induced depolarization in inner ear artery is generated by activation of a TRP-like non-selective cation conductance and inactivation of a potassium conductance. **2008**, 239, 20-33	4
1645	X-ray crystal structure of a TRPM assembly domain reveals an antiparallel four-stranded coiled-coil. **2008**, 383, 854-70	99
1644	TRPA1 receptor localisation in the human peripheral nervous system and functional studies in cultured human and rat sensory neurons. **2008**, 438, 221-7	140
1643	A yeast genetic screen reveals a critical role for the pore helix domain in TRP channel gating. **2008**, 58, 362-73	104
1642	Physiological and morphological properties of, and effect of substance P on, neurons in the A7 catecholamine cell group in rats. **2008**, 153, 1020-33	16
1641	Is TRPV1 a useful target in respiratory diseases?. **2008**, 21, 833-9	37
1640	Ca2+ signalling in plants and green algae--changing channels. **2008**, 13, 506-14	178
1639	Thermal taste, PROP responsiveness, and perception of oral sensations. **2008**, 95, 581-90	128
1638	An increase in intracellular Ca2+ is involved in pronephric tubule differentiation in the amphibian Xenopus laevis. **2008**, 321, 357-67	23
1637	TrkA pathway(s) is involved in regulation of TRPM7 expression in hippocampal neurons subjected to ischemic-reperfusion and oxygen-glucose deprivation. **2008**, 76, 124-30	36

1636	TRPV1 stimulation triggers apoptotic cell death of rat cortical neurons. **2008**, 377, 1211-5	67
1635	TRPA1 channels: novel targets of 1,4-dihydropyridines. **2008**, 2, 429-38	57
1634	Nicotinic acid adenine dinucleotide phosphate (NAADP) and Ca2+ mobilization. **2008**, 28, 163-84	5
1633	The Renal Microcirculation. **2008**, 550-683	6
1632	Structural analyses of the ankyrin repeat domain of TRPV6 and related TRPV ion channels. **2008**, 47, 2476-84	89
1631	Identification of molecular determinants of channel gating in the transient receptor potential box of vanilloid receptor I. **2008**, 22, 3298-309	68
1630	TRPM7 facilitates cholinergic vesicle fusion with the plasma membrane. **2008**, 105, 8304-8	78
1629	Identification of pore residues engaged in determining divalent cationic permeation in transient receptor potential melastatin subtype channel 2. **2008**, 283, 27426-27432	52
1628	Domain mapping of the polycystin-2 C-terminal tail using de novo molecular modeling and biophysical analysis. **2008**, 283, 28305-12	64
1627	IP3 sensitizes TRPV4 channel to the mechano- and osmotransducing messenger 5'-6'-epoxyeicosatrienoic acid. **2008**, 181, 143-55	110
1626	Transient receptor potential channels in sensory neurons are targets of the antimycotic agent clotrimazole. **2008**, 28, 576-86	96
1625	Ceramide kinase promotes Ca2+ signaling near IgG-opsonized targets and enhances phagolysosomal fusion in COS-1 cells. **2008**, 49, 531-42	10
1624	Ion channels in microbes. **2008**, 88, 1449-90	145
1623	A double TRPtych: six views of transient receptor potential channels in disease and health. **2008**, 28, 11778-84	6
1622	The Renal Microcirculation. **2008**, 550-683	20
1621	Immunohistochemical localization of transient receptor potential vanilloid subtype 1 in the trachea of ovalbumin-sensitized Guinea pigs. **2008**, 146 Suppl 1, 28-32	26
1620	Non-random distribution and sensory functions of primary cilia in vascular smooth muscle cells. **2008**, 31, 171-84	50
1619	Inhibition of the magnesium-sensitive TRPM7-like channel in cardiac myocytes by nonhydrolysable GTP analogs: involvement of phosphoinositide metabolism. **2008**, 22, 109-18	15

1618	TRPC6 channels promote dendritic growth via the CaMKIV-CREB pathway. **2008**, 121, 2301-7	129
1617	Molecular determinants of sensitivity and conductivity of human TRPM7 to Mg2+ and Ca2+. **2008**, 2, 283-6	18
1616	Human lung epithelial cells express a functional cold-sensing TRPM8 variant. **2008**, 39, 466-74	97
1615	Distinct TRP channels are required for warm and cool avoidance in Drosophila melanogaster. **2008**, 105, 14668-73	94
1614	Identification of transmembrane domain 5 as a critical molecular determinant of menthol sensitivity in mammalian TRPA1 channels. **2008**, 28, 9640-51	230
1613	Phototransduction in Microvillar Photoreceptors of Drosophila and Other Invertebrates. **2008**, 77-130	32
1612	TRPV5 is internalized via clathrin-dependent endocytosis to enter a Ca2+-controlled recycling pathway. **2008**, 283, 4077-86	31
1611	TRPC3 is the erythropoietin-regulated calcium channel in human erythroid cells. **2008**, 283, 10385-95	31
1610	Proton conductivity through the human TRPM7 channel and its molecular determinants. **2008**, 283, 15097-103	21
1609	Structure of TRPV1 channel revealed by electron cryomicroscopy. **2008**, 105, 7451-5	164
1608	Calcium plays a central role in the sensitization of TRPV3 channel to repetitive stimulations. **2008**, 283, 6162-74	72
1607	TRP_2, a lipid/trafficking domain that mediates diacylglycerol-induced vesicle fusion. **2008**, 283, 34384-92	23
1606	Cannabinoids desensitize capsaicin and mustard oil responses in sensory neurons via TRPA1 activation. **2008**, 28, 1064-75	115
1605	Hydrolysis of phosphatidylinositol 4,5-bisphosphate mediates calcium-induced inactivation of TRPV6 channels. **2008**, 283, 14980-7	56
1604	Vanilloid transient receptor potential cation channels: an overview. **2008**, 14, 18-31	163
1603	Herbal compounds and toxins modulating TRP channels. **2008**, 6, 79-96	133
1602	Intraesophageal chemicals enhance responsiveness of upper thoracic spinal neurons to mechanical stimulation of esophagus in rats. **2008**, 294, G708-16	16
1601	Cell death by necrosis, a regulated way to go. **2008**, 8, 187-206	70

1600	ATP/UTP activate cation-permeable channels with TRPC3/7 properties in rat cardiomyocytes. **2008**, 295, H21-8	34
1599	Effect of increasing temperature on TRPV1-mediated responses in isolated rat pulmonary sensory neurons. **2008**, 294, L563-71	23
1598	Polycystin-2 down-regulates cell proliferation via promoting PERK-dependent phosphorylation of eIF2alpha. **2008**, 17, 3254-62	42
1597	Differential effects of ASIC3 and TRPV1 deletion on gastroesophageal sensation in mice. **2008**, 294, G130-8	84
1596	A genome-wide survey suggests an osmoprotective role for vacuolar Ca2+ release in cell wall-compromised yeast. **2008**, 22, 2405-15	13
1595	Lack of potentiating effect of increasing temperature on responses to chemical activators in vagal sensory neurons isolated from TRPV1-null mice. **2008**, 295, L897-904	11
1594	Polycystin-2 is regulated by endoplasmic reticulum-associated degradation. **2008**, 17, 1109-19	44
1593	Multiple unbiased prospective screens identify TRP channels and their conserved gating elements. **2008**, 132, 481-6	18
1592	2007 Young Investigator Award: TRP'ing into a new era for glomerular disease. **2008**, 19, 1071-5	29
1591	Sphingosine-1-phosphate activation of TRPC5 in vascular smooth muscle cells. **2008**, 1, 92-97	
1590	Kisspeptin depolarizes gonadotropin-releasing hormone neurons through activation of TRPC-like cationic channels. **2008**, 28, 4423-34	185
1589	Constitutively active TRPC3 channels regulate basal ganglia output neurons. **2008**, 28, 473-82	69
1588	ORAI and store-operated calcium influx in human airway smooth muscle cells. **2008**, 38, 744-9	110
1587	Molecular characterization of TRPA1 channel activation by cysteine-reactive inflammatory mediators. **2008**, 2, 287-98	184
1586	Calciotropic and magnesiotropic TRP channels. **2008**, 23, 32-40	66
1585	Molecular determinants of species-specific activation or blockade of TRPA1 channels. **2008**, 28, 5063-71	91
1584	Direct role of streptozotocin in inducing thermal hyperalgesia by enhanced expression of transient receptor potential vanilloid 1 in sensory neurons. **2008**, 73, 995-1004	76
1583	TRPV1: hot new channels in the brain. **2008**, 3, 507-510	

1582	Expression of Pkd2l2 in testis is implicated in spermatogenesis. **2008**, 31, 1496-500	17
1581	Intracellular alkalization causes pain sensation through activation of TRPA1 in mice. **2008**, 118, 4049-57	98
1580	TRPV1: on the road to pain relief. **2008**, 1, 255-69	114
1579	Pharmacologic disruption of TRPV1-expressing primary sensory neurons but not genetic deletion of TRPV1 protects mice against pancreatitis. **2008**, 36, 394-401	21
1578	Echinacea in infection. **2008**, 87, 488S-92S	25
1577	Renal Cortical and Medullary Microcirculations: STRUCTURE AND FUNCTION. **2008**, 627-670	3
1576	Transient receptor potential vanilloid 4 mediates protease activated receptor 2-induced sensitization of colonic afferent nerves and visceral hyperalgesia. **2008**, 294, G1288-98	110
1575	Citral sensing by Transient [corrected] receptor potential channels in dorsal root ganglion neurons. **2008**, 3, e2082	83
1574	[Transient receptor potential, TRP channels: a new family of channels broadly expressed]. **2008**, 24, 163-8	6
1573	Mechanisms underlying angiotensin II-induced calcium oscillations. **2008**, 295, F568-84	10
1572	Oral Chemesthesis and Taste. **2008**, 345-369	5
1571	TRPC1 expression and distribution in rat hearts. **2009**, 53,	
1570	Cannabinoid modulation of perivascular sympathetic and sensory neurotransmission. **2009**, 7, 15-25	17
1569	Transient Receptor Potential (TRP) Channels. **2009**, 1109-1133	12
1568	TRPC1 expression and distribution in rat hearts. **2009**, 53, e26	25
1567	Transient receptor potential (TRP) cation channels. **2009**, 158, S148-S155	1
1566	Nociceptor Responses. **2009**, 1191-1198	
1565	TRPC Channels Mediate a Muscarinic Receptor-Induced Afterdepolarization in Cerebral Cortex. **2009**, 29, 10038-46	103

1564	Intracellular calcium activates TRPM2 and its alternative spliced isoforms. **2009**, 106, 7239-44	122
1563	Transient receptor potential (TRP) channels and taste sensation. **2009**, 88, 212-8	55
1562	Activity of the neuronal cold sensor TRPM8 is regulated by phospholipase C via the phospholipid phosphoinositol 4,5-bisphosphate. **2009**, 284, 1570-82	112
1561	Regulation of transient receptor potential canonical channel 1 (TRPC1) by sphingosine 1-phosphate in C2C12 myoblasts and its relevance for a role of mechanotransduction in skeletal muscle differentiation. **2009**, 122, 1322-33	89
1560	Isolation of ON bipolar cell genes via hrGFP-coupled cell enrichment using the mGluR6 promoter. **2009**, 145, 811-8	19
1559	Phospholipase C-gamma binds directly to the Na+/H+ exchanger 3 and is required for calcium regulation of exchange activity. **2009**, 284, 19437-44	16
1558	Membrane lipid modulations remove divalent open channel block from TRP-like and NMDA channels. **2009**, 29, 2371-83	53
1557	Modulation of TRPM2 by acidic pH and the underlying mechanisms for pH sensitivity. **2009**, 134, 471-88	64
1556	Hot on the trail of TRP channel structure. **2009**, 133, 239-44	29
1555	Membrane-delimited coupling of TRPV1 and mGluR5 on presynaptic terminals of nociceptive neurons. **2009**, 29, 10000-9	57
1554	Pharmacology and Therapeutics of Airway Disease. **2009**,	
1553	Cough sensors. II. Transient receptor potential membrane receptors on cough sensors. **2009**, 49-61	26
1552	Involvement of TRPC channels in CCL2-mediated neuroprotection against tat toxicity. **2009**, 29, 1657-69	61
1551	Regulation of calcium-permeable TRPV2 channel by insulin in pancreatic beta-cells. **2009**, 58, 174-84	104
1550	Silencing TRPM7 promotes growth/proliferation and nitric oxide production of vascular endothelial cells via the ERK pathway. **2009**, 83, 547-57	85
1549	Linoleic acid inhibits TRP channels with intrinsic voltage sensitivity: Implications on the mechanism of linoleic acid action. **2009**, 3, 164-6	18
1548	An essential role for stromal interaction molecule 1 in neointima formation following arterial injury. **2009**, 81, 660-8	72
1547	TRPM1 forms ion channels associated with melanin content in melanocytes. **2009**, 2, ra21	139

1546	UNC80 functions as a scaffold for Src kinases in NALCN channel function. **2009**, 3, 161-3	22
1545	TRP channels and pain. **2009**, 15, 1736-49	114
1544	Bradykinin regulates calpain and proinflammatory signaling through TRPM7-sensitive pathways in vascular smooth muscle cells. **2009**, 296, R201-7	39
1543	Transient receptor potential A1 mediates gastric distention-induced visceral pain in rats. **2009**, 58, 1342-52	51
1542	Analysis of the cytoplasmic interaction between polycystin-1 and polycystin-2. **2009**, 297, F1310-5	27
1541	Calcium homeostasis in human melanocytes: role of transient receptor potential melastatin 1 (TRPM1) and its regulation by ultraviolet light. **2009**, 297, C679-87	68
1540	Activating mutations of the TRPML1 channel revealed by proline-scanning mutagenesis. **2009**, 284, 32040-52	93
1539	Stimulating effects of dopamine on chloride transport across the rat caudal epididymal epithelium in culture. **2009**, 80, 13-23	8
1538	Molecular and cellular basis of lysosomal transmembrane protein dysfunction. **2009**, 1793, 636-49	88
1537	Roles of transient receptor potential channels in pain. **2009**, 60, 2-23	136
1536	Hypotonic shocks activate rat TRPV4 in yeast in the absence of polyunsaturated fatty acids. **2009**, 583, 754-8	38
1535	Carvacrol is a novel inhibitor of Drosophila TRPL and mammalian TRPM7 channels. **2009**, 45, 300-9	125
1534	Role of phosphoinositol 4,5-bisphosphate and diacylglycerol in regulating native TRPC channel proteins in vascular smooth muscle. **2009**, 45, 574-82	63
1533	Lipids in Ca2+ signalling--an introduction. **2009**, 45, 517-20	9
1532	Surfing the wave, cycle, life history, and genes/proteins expressed by testicular germ cells. Part 4: intercellular bridges, mitochondria, nuclear envelope, apoptosis, ubiquitination, membrane/voltage-gated channels, methylation/acetylation, and transcription factors. **2010**, 73, 364-408	33
1531	Functional roles of TRPC channels in the developing brain. **2009**, 458, 283-9	50
1530	Function and regulation of TRP family channels in C. elegans. **2009**, 458, 851-60	51
1529	Inherited forms of renal hypomagnesemia: an update. **2009**, 24, 697-705	40

1528	Expression of ion channels of the TRP family in articular chondrocytes from osteoarthritic patients: changes between native and in vitro propagated chondrocytes. **2009**, 321, 135-43		45
1527	The effects of capsaicin on gastrin secretion in isolated human antral glands: before and after ingestion of red chilli. **2009**, 54, 491-8		19
1526	Temperature-dependent activation of neurons by continuous near-infrared laser. **2009**, 53, 33-42		23
1525	Requirement for the N-terminal coiled-coil domain for expression and function, but not subunit interaction of, the ADPR-activated TRPM2 channel. **2009**, 230, 93-9		8
1524	Developmental regulation of human embryonic stem cell-derived neurons by calcium entry via transient receptor potential channels. **2009**, 27, 2906-16		31
1523	Role of TRPV3 in immune response to development of dermatitis. **2009**, 6, 17		25
1522	Homer regulates calcium signalling in growth cone turning. **2009**, 4, 29		32
1521	A TRP channel is expressed in Spodoptera littoralis antennae and is potentially involved in insect olfactory transduction. **2009**, 18, 213-22		9
1520	Keynote lectures. **2009**, 32, 11-46		1
1519	Impact of the Gly573Ser substitution in TRPV3 on the development of allergic and pruritic dermatitis in mice. **2009**, 129, 714-22		121
1518	An "ice-cold" TR(i)P to skin biology: the role of TRPA1 in human epidermal keratinocytes. **2009**, 129, 2096-9		20
1517	Peptide neurotransmitters activate a cation channel complex of NALCN and UNC-80. *Nature*, **2009**, 457, 741-4	50.4	120
1516	TRPC channel-mediated neuroprotection by PDGF involves Pyk2/ERK/CREB pathway. **2009**, 16, 1681-93		49
1515	Transient receptor potential channels: targeting pain at the source. **2009**, 8, 55-68		437
1514	Structural determinants of gating in the TRPV1 channel. **2009**, 16, 704-10		85
1513	Regulation of intestinal electroneutral sodium absorption and the brush border Na+/H+ exchanger by intracellular calcium. **2009**, 1165, 240-8		22
1512	Effects of transient receptor potential (TRP) channel agonists and antagonists on slowly adapting type II mechanoreceptors in the rat sinus hair follicle. **2009**, 14, 300-9		9
1511	ION CHANNELS. **2009**, 158, S123-S155		1

1510	Taste-guided identification of high potency TRPA1 agonists from Perilla frutescens. **2009**, 17, 1636-9	45
1509	Structure-functional intimacies of transient receptor potential channels. **2009**, 42, 201-46	128
1508	Recessive mutations of the gene TRPM1 abrogate ON bipolar cell function and cause complete congenital stationary night blindness in humans. **2009**, 85, 711-9	143
1507	Molecular receptors of taste agents. **2009**, 35, 1-9	1
1506	Essential role for TRPC5 in amygdala function and fear-related behavior. **2009**, 137, 761-72	202
1505	Up-regulation of TRPV1 in mononuclear cells of end-stage kidney disease patients increases susceptibility to N-arachidonoyl-dopamine (NADA)-induced cell death. **2009**, 1792, 1019-26	23
1504	Comparative modeling of the quaternary structure for the human TRPM8 channel and analysis of its binding features. **2009**, 1788, 973-82	42
1503	Hot flash: TRPV channels in the brain. **2009**, 32, 215-24	186
1502	Peptidyl-prolyl isomerase FKBP52 controls chemotropic guidance of neuronal growth cones via regulation of TRPC1 channel opening. **2009**, 64, 471-83	58
1501	Deletion of vanilloid receptor (TRPV1) in mice alters behavioral effects of ethanol. **2009**, 56, 814-20	64
1500	Ca2+ entry through a non-selective cation channel in Aplysia bag cell neurons. **2009**, 162, 1023-38	16
1499	Role of TRPC1 and NF-kappaB in mediating angiotensin II-induced Ca2+ entry and endothelial hyperpermeability. **2009**, 30, 1368-73	12
1498	Axonal effects of camphor poisoning. **2009**, 16, 1639-41	4
1497	Ang-II-induced Ca(2+) influx is mediated by the 1/4/5 subgroup of the transient receptor potential proteins in cultured aortic smooth muscle cells from diabetic Goto-Kakizaki rats. **2009**, 302, 49-57	23
1496	Neurokinin 1 receptor activates transient receptor potential-like currents in noradrenergic A7 neurons in rats. **2009**, 42, 56-65	14
1495	The ER and ageing II: calcium homeostasis. **2009**, 8, 160-72	51
1494	Plant ion channels: gene families, physiology, and functional genomics analyses. **2009**, 71, 59-82	283
1493	The role of transient receptor potential channels in kidney disease. **2009**, 5, 441-9	100

1492	Evolution of thermal response properties in a cold-activated TRP channel. **2009**, 4, e5741	48
1491	An ultra-short dopamine pathway regulates basal ganglia output. **2009**, 29, 10424-35	71
1490	Lipid raft segregation modulates TRPM8 channel activity. **2009**, 284, 9215-24	87
1489	TRPA1 modulators in preclinical development. **2009**, 19, 1787-99	28
1488	Transient receptor potential: a large family of new channels of which several are involved in cardiac arrhythmia. **2009**, 87, 100-7	15
1487	Roles of phospholipase C isozymes in organogenesis and embryonic development. **2009**, 24, 332-41	26
1486	The Role of the Vagus Nerve in Afferent Signaling and Homeostasis During Visceral Inflammation. **2009**, 8, 321-338	3
1485	Unfoldomics of human genetic diseases: illustrative examples of ordered and intrinsically disordered members of the human diseasome. **2009**, 16, 1533-47	52
1484	Antagonistic regulation of actin dynamics and cell motility by TRPC5 and TRPC6 channels. **2010**, 3, ra77	195
1483	A Correction to the Research Article Titled: "Antagonistic Regulation of Actin Dynamics and Cell Motility by TRPC5 and TRPC6 Channels" by D. Tian, S. M. P. Jacobo, D. Billing, A. Rozkalne, S. D. Gage, T. Anagnostou, H. Pavenstaedt, H.-H. Hsu, J. Schlondorff, A. Ramos, A. Greka. **2010**, 3, er11-er11	2
1482	Transient receptor potential channels and vascular function. **2010**, 119, 19-36	76
1481	Identification of the structural motif responsible for trimeric assembly of the C-terminal regulatory domains of polycystin channels PKD2L1 and PKD2. **2010**, 429, 171-83	15
1480	[Pathophysiological roles of transient receptor potential channels in glial cells]. **2010**, 130, 281-7	8
1479	Introduction to TRP channels: structure, function, and regulation. **2010**, 661, 99-108	38
1478	The alpha-kinase family: an exceptional branch on the protein kinase tree. **2010**, 67, 875-90	72
1477	Direct activation of transient receptor potential V1 by nickel ions. **2010**, 459, 737-50	23
1476	Canonical TRP channels and mechanotransduction: from physiology to disease states. **2010**, 460, 571-81	102
1475	TRP-ing up heart and vessels: canonical transient receptor potential channels and cardiovascular disease. **2010**, 3, 516-24	42

1474	Heterogeneity in primary nociceptive neurons: from molecules to pathology. **2010**, 33, 1489-507	10
1473	Centrally administered ghrelin potently inhibits water intake induced by angiotensin II and hypovolemia in rats. **2010**, 60, 19-25	21
1472	Heteromerization of TRP channel subunits: extending functional diversity. **2010**, 1, 802-10	50
1471	Ion channels in neuronal survival. **2010**, 53, 342-347	20
1470	Non-CB1, non-CB2 receptors for endocannabinoids, plant cannabinoids, and synthetic cannabimimetics: focus on G-protein-coupled receptors and transient receptor potential channels. **2010**, 5, 103-21	149
1469	Mechanotransduction by TRP channels: general concepts and specific role in the vasculature. **2010**, 56, 1-18	128
1468	Temperature response in electrosensors and thermal voltages in electrolytes. **2010**, 36, 121-34	10
1467	Distribution profiles of transient receptor potential melastatin- and vanilloid-related channels in rat spermatogenic cells and sperm. **2010**, 37, 1287-93	23
1466	The vanilloid transient receptor potential channel TRPV4: from structure to disease. **2010**, 103, 2-17	249
1465	Chemical physiology of oxidative stress-activated TRPM2 and TRPC5 channels. **2010**, 103, 18-27	43
1464	The paradoxical role of the transient receptor potential vanilloid 1 receptor in inflammation. **2010**, 125, 181-95	118
1463	Convergent evolution: pick your poison carefully. **2010**, 20, R152-4	13
1462	Phototransduction: keep an eye out for acid-labile TRPs. **2010**, 20, R149-52	3
1461	Membrane thickness cue for cold sensing in a bacterium. **2010**, 20, 1539-44	100
1460	Arachidonic acid stimulates extracellular Ca(2+) entry in rat pancreatic beta cells via activation of the noncapacitative arachidonate-regulated Ca(2+) (ARC) channels. **2010**, 47, 77-83	19
1459	TRPM7 regulates the migration of human nasopharyngeal carcinoma cell by mediating Ca(2+) influx. **2010**, 47, 425-32	111
1458	A helix-breaking mutation in the epithelial Ca(2+) channel TRPV5 leads to reduced Ca(2+)-dependent inactivation. **2010**, 48, 275-87	12
1457	RANKL-induced TRPV2 expression regulates osteoclastogenesis via calcium oscillations. **2010**, 48, 260-9	48

1456	Mucolipins: Intracellular TRPML1-3 channels. **2010**, 584, 2013-21	176
1455	Gene transfer of TRPC6 (dominant negative) restores erectile function in diabetic rats. **2010**, 7, 1126-38	12
1454	Plasma membrane insertion of TRPC5 channels contributes to the cholinergic plateau potential in hippocampal CA1 pyramidal neurons. **2011**, 21, 958-67	54
1453	Ion channels in toxicology. **2010**, 30, 497-512	36
1452	Die Skala des Wilbur Lincoln Scoville. Manche mögen's scharf. **2010**, 44, 138-151	7
1451	The cutaneous sensory system. **2010**, 34, 148-59	261
1450	Gadolinium blocks membrane permeabilization induced by nanosecond electric pulses and reduces cell death. **2010**, 79, 95-100	46
1449	TRPA1 modulation of spontaneous and mechanically evoked firing of spinal neurons in uninjured, osteoarthritic, and inflamed rats. **2010**, 6, 14	125
1448	Induction of a novel cation current in cardiac ventricular myocytes by flufenamic acid and related drugs. **2010**, 161, 416-29	9
1447	TRP channels of intracellular membranes. **2010**, 113, 313-28	133
1446	Inhibition of TRPV1 for the treatment of sensitive skin. **2010**, 19, 980-6	47
1445	Ins(1,4,5)P3 interacts with PIP2 to regulate activation of TRPC6/C7 channels by diacylglycerol in native vascular myocytes. **2010**, 588, 1419-33	44
1444	Alterations in the ankyrin domain of TRPV4 cause congenital distal SMA, scapuloperoneal SMA and HMSN2C. **2010**, 42, 160-4	191
1443	Substance P modulation of TRPC3/7 channels improves respiratory rhythm regularity and ICAN-dependent pacemaker activity. **2010**, 31, 1219-32	42
1442	Pathophysiology and therapy of pruritus in allergic and atopic diseases. **2010**, 65, 805-21	101
1441	Functional Analysis of TRPV6 Polymorphisms. **2010**, 26, 331	
1440	A role of canonical transient receptor potential 5 channel in neuronal differentiation from A2B5 neural progenitor cells. **2010**, 5, e10359	27
1439	Podocyte-specific overexpression of wild type or mutant trpc6 in mice is sufficient to cause glomerular disease. **2010**, 5, e12859	96

1438	Rat hypocretin/orexin neurons are maintained in a depolarized state by TRPC channels. **2010**, 5, e15673	22
1437	Near-membrane dynamics and capture of TRPM8 channels within transient confinement domains. **2010**, 5, e13290	26
1436	Activity-dependent release of endogenous BDNF from mossy fibers evokes a TRPC3 current and Ca2+ elevations in CA3 pyramidal neurons. **2010**, 103, 2846-56	50
1435	Functional Expression of TRPV4 Cation Channels in Human Mast Cell Line (HMC-1). **2010**, 14, 419-25	24
1434	Characterization of selective TRPM8 ligands and their structure activity response (S.A.R) relationship. **2010**, 13, 242-53	52
1433	Novel role for the transient receptor potential channel TRPM2 in prostate cancer cell proliferation. **2010**, 13, 195-201	76
1432	A 3.5-nm structure of rat TRPV4 cation channel revealed by Zernike phase-contrast cryoelectron microscopy. **2010**, 285, 11210-8	69
1431	Lamellar body exocytosis by cell stretch or purinergic stimulation: possible physiological roles, messengers and mechanisms. **2010**, 25, 1-12	28
1430	Role of transient receptor potential A1 in gastric nociception. **2010**, 82, 150-5	26
1429	A transient receptor potential channel regulates basal ganglia output. **2010**, 21, 95-118	8
1428	TRPM7-mediated Ca2+ signals confer fibrogenesis in human atrial fibrillation. **2010**, 106, 992-1003	232
1427	Pruritus. **2010**, 1-18	2
1426	Effect of ionic stress on apoptosis and the expression of TRPM2 in human olfactory neuroepithelial-derived progenitors. **2010**, 11, 972-84	10
1425	Thermosensitive TRP channel pore turret is part of the temperature activation pathway. **2010**, 107, 7083-8	155
1424	The transient receptor potential channel TRPM8 is inhibited via the alpha 2A adrenoreceptor signaling pathway. **2010**, 285, 9410-9419	48
1423	Light-dependent phosphorylation of the drosophila transient receptor potential ion channel. **2010**, 285, 14275-84	25
1422	TRP channels: new targets for visceral pain. **2010**, 59, 126-35	61
1421	TRPM1 is a component of the retinal ON bipolar cell transduction channel in the mGluR6 cascade. **2010**, 107, 332-7	217

1420	Leptin excites proopiomelanocortin neurons via activation of TRPC channels. **2010**, 30, 1560-5	148
1419	International Union of Basic and Clinical Pharmacology. LXXVI. Current progress in the mammalian TRP ion channel family. **2010**, 62, 381-404	414
1418	State-dependent inhibition of TRPM2 channel by acidic pH. **2010**, 285, 30411-8	37
1417	Isoform-selective physical coupling of TRPC3 channels to IP3 receptors in smooth muscle cells regulates arterial contractility. **2010**, 106, 1603-12	66
1416	Nasal chemosensory cells use bitter taste signaling to detect irritants and bacterial signals. **2010**, 107, 3210-5	302
1415	Glucose enhances expression of TRPC1 and calcium entry in endothelial cells. **2010**, 298, H171-8	43
1414	Transient Receptor Potential channels: What's happening? Reflections in the wake of the 2009 TRP Meeting, Karolinska Institutet, Stockholm. **2010**, 4, 124-35	3
1413	Constitutive activity of TRP channels methods for measuring the activity and its outcome. **2010**, 484, 591-612	11
1412	Neurobiological effects of Hyperforin and its potential in Alzheimer's disease therapy. **2010**, 17, 391-406	63
1411	Occupational, environmental, and irritant-induced cough. **2010**, 43, 85-96, ix	11
1410	TRPM2 channel properties, functions and therapeutic potentials. **2010**, 14, 973-88	64
1409	Transient receptor potential ankyrin 1 (TRPA1) channel as emerging target for novel analgesics and anti-inflammatory agents. **2010**, 53, 5085-107	129
1408	The Gastrointestinal Circulation. **2010**, 2, 1-127	12
1407	Kinetic and energetic analysis of thermally activated TRPV1 channels. **2010**, 99, 1743-53	83
1406	Zinc-induced neurotoxicity mediated by transient receptor potential melastatin 7 channels. **2010**, 285, 7430-9	106
1405	Enhanced activation of the transient receptor potential channel TRPA1 by ajoene, an allicin derivative. **2010**, 66, 99-105	20
1404	Amlodipine, a Ca2+ channel blocker, suppresses phosphorylation of epidermal growth factor receptor in human epidermoid carcinoma A431 cells. **2010**, 86, 124-32	7
1403	Cellular functions of transient receptor potential channels. **2010**, 42, 1430-45	22

1402	Transient receptor potential channel TRPM8 is over-expressed and required for cellular proliferation in pancreatic adenocarcinoma. **2010**, 297, 49-55	79
1401	A nonproton ligand sensor in the acid-sensing ion channel. **2010**, 68, 61-72	153
1400	Involvement of transient receptor potential melastatin-related 7 (TRPM7) channels in cadmium uptake and cytotoxicity in MC3T3-E1 osteoblasts. **2010**, 199, 357-63	29
1399	Sensing pressure in the cardiovascular system: Gq-coupled mechanoreceptors and TRP channels. **2010**, 48, 83-9	61
1398	Cholesterol and ion channels. **2010**, 51, 509-49	139
1397	Neurogenic Inflammation: TRP Ion Channels in the Lung. **2010**, 129-149	4
1396	Sensor Mechanism and Afferent Signal Transduction of the Urinary Bladder: Special Focus on transient receptor potential Ion Channels. **2010**, 2, 51-60	9
1395	The history of the Drosophila TRP channel: the birth of a new channel superfamily. **2010**, 24, 216-33	73
1394	Roles of channels and receptors in the growth cone during PNS axonal regeneration. **2010**, 223, 38-44	32
1393	The role of transient receptor potential cation channels in Ca2+ signaling. **2010**, 2, a003962	284
1392	Polycystins and renovascular mechanosensory transduction. **2010**, 6, 530-8	69
1391	Membrane Receptors, Channels and Transporters in Pulmonary Circulation. **2010**,	4
1390	Phospholipase C□ is a novel binding partner of myosin VI and functions as anchoring of myosin VI on plasma membrane. **2011**, 51, 171-81	12
1389	Chemosensory properties of the trigeminal system. **2011**, 2, 38-50	96
1388	Ion channel modulators and urinary tract function. **2011**, 375-93	18
1387	Role of TRP channels in pain sensation. **2011**, 704, 615-36	73
1386	TRPA1 underlies a sensing mechanism for O2. **2011**, 7, 701-11	197
1385	Transient receptor potential channels as therapeutic targets. **2011**, 10, 601-20	391

1384	TRP Channels as Sensors and Signal Integrators of Redox Status Changes. **2011**, 2, 58	73
1383	Natural product ligands of TRP channels. **2011**, 704, 41-85	23
1382	Transient receptor potential canonical channel 6 links Ca2+ mishandling to cystic fibrosis transmembrane conductance regulator channel dysfunction in cystic fibrosis. **2011**, 44, 83-90	45
1381	TRP channels and psychiatric disorders. **2011**, 704, 987-1009	17
1380	Transient receptor potential cation channel, subfamily C, member 5 (TRPC5) is a cold-transducer in the peripheral nervous system. **2011**, 108, 18114-9	146
1379	Heart Rate and Rhythm. **2011**,	4
1378	TRPP channels and polycystins. **2011**, 704, 287-313	29
1377	C. elegans TRP channels. **2011**, 704, 323-39	25
1376	TRPM8 and Nav1.8 sodium channels are required for transthyretin-induced calcium influx in growth cones of small-diameter TrkA-positive sensory neurons. **2011**, 6, 19	21
1375	Urinary Tract. **2011**,	7
1374	Treatment and Management of Muscular Dystrophies. **2011**, 343-372	3
1373	Angiotensin II contributes to podocyte injury by increasing TRPC6 expression via an NFAT-mediated positive feedback signaling pathway. **2011**, 179, 1719-32	158
1372	Decrease in transient receptor potential melastatin 6 mRNA stability caused by rapamycin in renal tubular epithelial cells. **2011**, 1808, 1502-8	15
1371	TRP Channels in Cardiac Arrhythmia: Their Role During Purinergic Activation Induced by Ischemia. **2011**, 563-579	
1370	Scorpion toxins modify phytopathogenic fungus physiology. A possible source of new fungicides. **2011**, 59, 6327-37	7
1369	Ca2+ signaling in the regulation of dendritic cell functions. **2011**, 300, C1205-14	60
1368	Do TRPC-like currents and G protein-coupled receptors interact to facilitate myogenic tone development?. **2011**, 301, H1378-88	25
1367	Molecular determinants of cardiac fibroblast electrical function and therapeutic implications for atrial fibrillation. **2011**, 89, 744-53	244

1366 TRPM7 regulates gastrulation during vertebrate embryogenesis. **2011**, 350, 348-57 50

1365 XPORT-dependent transport of TRP and rhodopsin. **2011**, 72, 602-15 39

1364 Membrane depolarization combined with Gq-activated G-protein-coupled receptors induce transient receptor potential channel 1 (TRPC1)- dependent potentiation of catecholamine release. **2011**, 189, 132-45 7

1363 Irritant-induced airway disorders. **2011**, 31, 747-68, vi 41

1362 CaMK-II is a PKD2 target that promotes pronephric kidney development and stabilizes cilia. **2011**, 138, 3387-97 22

1361 Complex regulation of TRPV1 and related thermo-TRPs: implications for therapeutic intervention. **2011**, 704, 491-515 50

1360 Ionizing radiation induces migration of glioblastoma cells by activating BK K(+) channels. **2011**, 101, 122-6 71

1359 TRP channels, omega-3 fatty acids, and oxidative stress in neurodegeneration: from the cell membrane to intracellular cross-links. **2011**, 44, 1088-96 11

1358 Effects of serum amyloid a and lysophosphatidylcholine on intracellular calcium concentration in human coronary artery smooth muscle cells. **2011**, 52, 185-93 7

1357 The emerging pharmacology of TRPM8 channels: hidden therapeutic potential underneath a cold surface. **2011**, 12, 54-67 23

1356 Vascular Biology and Atherosclerosis of Cerebral Arteries. **2011**, 3-15

1355 The Role of Transient Receptor Potential Channel in Pain. **2011**, 31, 116 2

1354 CFTR and Ca Signaling in Cystic Fibrosis. **2011**, 2, 67 34

1353 State-of-the-Art Automated Patch Clamp Devices: Heat Activation, Action Potentials, and High Throughput in Ion Channel Screening. **2011**, 2, 76 49

1352 Pancreatic ductal bicarbonate secretion: challenge of the acinar Acid load. **2011**, 2, 36 26

1351 Sub-cellular distribution and translocation of TRP channels. **2011**, 12, 12-23 13

1350 Regulation of nociceptive transmission at the periphery via TRPA1-TRPV1 interactions. **2011**, 12, 89-94 69

1349 Sour taste responses in mice lacking PKD channels. **2011**, 6, e20007 97

1348	Cytochrome P450-derived epoxyeicosatrienoic acids and pulmonary hypertension: central role of transient receptor potential C6 channels. **2011**, 57, 140-7	36
1347	Transient receptor potential A1 modulators. **2011**, 11, 2227-36	12
1346	Molecular structure of transient receptor potential vanilloid type 1 ion channel (TRPV1). **2011**, 12, 115-21	6
1345	Disease-related changes in TRPV1 expression and its implications for drug development. **2011**, 11, 2192-209	19
1344	A "cute" desensitization of TRPV1. **2011**, 12, 122-9	60
1343	Red Pepper. **2011**, 46, 33-47	18
1342	TRPV1 and synaptic transmission. **2011**, 12, 95-101	25
1341	Electrophysiological approach to examine a putative cold- and menthol- sensitive channel in the liverwort Conocephalum conicum. **2011**, 6, 1002-3	1
1340	Transient receptor potential A1 channels: insights into cough and airway inflammatory disease. **2011**, 140, 1040-1047	54
1339	Expression and distribution of transient receptor potential (TRP) channels in bladder epithelium. **2011**, 300, F49-59	85
1338	Dual signaling pathways of arterial constriction by extracellular uridine 5'-triphosphate in the rat. **2011**, 115, 293-308	6
1337	Sodium transport in plants: a critical review. **2011**, 189, 54-81	288
1336	Transient receptor potential melastatin 7 channels are involved in ginsenoside Rg3-induced apoptosis in gastric cancer cells. **2011**, 109, 233-9	48
1335	TRPV channels and vascular function. **2011**, 203, 99-116	120
1334	The biophysical and molecular basis of TRPV1 proton gating. **2011**, 30, 994-1002	78
1333	Effect of cold and menthol on membrane potential in plants. **2011**, 141, 352-60	6
1332	Cardioprotection by ischemic postconditioning is lost in isolated perfused heart from diabetic rats: Involvement of transient receptor potential vanilloid 1, calcitonin gene-related peptide and substance P. **2011**, 169, 49-57	37
1331	TRP channels: emerging targets for respiratory disease. **2011**, 130, 371-84	105

1330	Exploring phospholipase C-coupled Ca(2+) signalling networks using Boolean modelling. **2011**, 5, 174-84	4
1329	More than a feeling: discovering, understanding, and influencing mechanosensing pathways. **2011**, 22, 648-54	103
1328	Capturing ER calcium dynamics. **2011**, 90, 613-9	11
1327	Transient receptor potential vanilloid 4 in the European sea bass Dicentrarchus labrax: a candidate protein for osmosensing. **2011**, 160, 43-51	18
1326	Roles of TRPM2 in oxidative stress. **2011**, 50, 279-87	116
1325	EGF enhances the migration of cancer cells by up-regulation of TRPM7. **2011**, 50, 559-68	79
1324	Translocation of the Drosophila transient receptor potential-like (TRPL) channel requires both the N- and C-terminal regions together with sustained Ca2+ entry. **2011**, 286, 34234-43	11
1323	Alteration of the transcriptional profile of human embryonic kidney cells by transient overexpression of mouse TRPM7 channels. **2011**, 27, 313-26	8
1322	In vitro sarcoma cells release a lipophilic substance that activates the pain transduction system via TRPV1. **2011**, 18, 866-71	11
1321	Proteomic profiling reveals compartment-specific, novel functions of ascidian sperm proteins. **2011** , 78, 529-49	16
1320	Pathophysiologically relevant levels of hydrogen peroxide induce glutamate-independent neurodegeneration that involves activation of transient receptor potential melastatin 7 channels. **2011**, 14, 1815-27	42
1319	Sensing hot and cold with TRP channels. **2011**, 27, 388-98	41
1318	Overexpression of a Wheat CCaMK Gene Reduces ABA Sensitivity of Arabidopsis thaliana During Seed Germination and Seedling Growth. **2011**, 29, 681-692	38
1317	TRPM2 cation channels, oxidative stress and neurological diseases: where are we now?. **2011**, 36, 355-66	118
1316	Distribution of TRPC6 in the cerebrospinal fluid-contacting nucleus of rat brain parenchyma and its expression in morphine dependence and withdrawal. **2011**, 36, 2316-21	11
1315	TRPC channel modulation in podocytes-inching toward novel treatments for glomerular disease. **2011**, 26, 1057-64	14
1314	A brief history of trp: commentary and personal perspective. **2011**, 461, 493-8	37
1313	Effects of transient receptor potential channel blockers on pacemaker activity in interstitial cells of Cajal from mouse small intestine. **2011**, 32, 153-60	20

1312	Characterization of calmodulin binding domains in TRPV2 and TRPV5 C-tails. **2011**, 40, 741-8	33
1311	TRPA1-mediated accumulation of aminoglycosides in mouse cochlear outer hair cells. **2011**, 12, 729-40	58
1310	[Neuropeptides and their receptors as a molecular explanation for sensitive skin]. **2011**, 62, 893-9	4
1309	Transient receptor potential canonical channels in angiogenesis and axon guidance. **2011**, 68, 3815-21	5
1308	Intravenous saline injection as an interoceptive signal in rats. **2011**, 217, 387-96	9
1307	Whole-Cell Electrical Activity Under Direct Mechanical Stimulus by AFM Cantilever Using Planar Patch Clamp Chip Approach. **2011**, 4, 270-280	11
1306	Effects of SKF-96365, a TRPC inhibitor, on melittin-induced inward current and intracellular Ca2+ rise in primary sensory cells. **2011**, 27, 135-42	25
1305	Identification of two distinct genes at the vertebrate TRPC2 locus and their characterisation in a marsupial and a monotreme. **2011**, 12, 39	5
1304	Basally activated nonselective cation currents regulate the resting membrane potential in human and monkey colonic smooth muscle. **2011**, 301, G287-96	29
1303	Mechanisms of nociceptive transduction and transmission: a machinery for pain sensation and tools for selective analgesia. **2011**, 97, 143-77	17
1302	TRPC channels as effectors of cardiac hypertrophy. **2011**, 108, 265-72	190
1301	TRP channels and cancer: new targets for diagnosis and chemotherapy. **2011**, 11, 54-67	75
1300	TRP channel gating physiology. **2011**, 11, 2131-50	36
1299	Dissection of genetic pathways in C. elegans. **2011**, 106, 113-57	20
1298	SNO-ing at the nociceptive synapse?. **2011**, 63, 366-89	41
1297	Oral epithelial cells are activated via TRP channels. **2011**, 90, 163-7	29
1296	TRPM7 in cerebral ischemia and potential target for drug development in stroke. **2011**, 32, 725-33	32
1295	Bromoenol lactone inhibits voltage-gated Ca2+ and transient receptor potential canonical channels. **2011**, 339, 329-40	20

1294	Postsynaptic TRPC1 function contributes to BDNF-induced synaptic potentiation at the developing neuromuscular junction. **2011**, 31, 14754-62	20
1293	Voltage- and temperature-dependent activation of TRPV3 channels is potentiated by receptor-mediated PI(4,5)P2 hydrolysis. **2011**, 137, 271-88	79
1292	Identification of ML204, a novel potent antagonist that selectively modulates native TRPC4/C5 ion channels. **2011**, 286, 33436-46	145
1291	4-oxo-2-nonenal (4-ONE): evidence of transient receptor potential ankyrin 1-dependent and -independent nociceptive and vasoactive responses in vivo. **2011**, 337, 117-24	46
1290	Modulation of canonical transient receptor potential channel 1 in the proliferation of oligodendrocyte precursor cells by the golli products of the myelin basic protein gene. **2011**, 31, 3625-37	41
1289	Inbuilt mechanisms for overcoming functional problems inherent in hepatic microlobular structure. **2011**, 2011, 185845	3
1288	Cell-type-specific CCK2 receptor signaling underlies the cholecystokinin-mediated selective excitation of hippocampal parvalbumin-positive fast-spiking basket cells. **2011**, 31, 10993-1002	43
1287	The chimeric approach reveals that differences in the TRPV1 pore domain determine species-specific sensitivity to block of heat activation. **2011**, 286, 39663-72	27
1286	Cilia and cell cycle re-entry: more than a coincidence. **2011**, 10, 2683-90	87
1285	Transient receptor potential (TRP) gene superfamily encoding cation channels. **2011**, 5, 108-16	48
1284	The transient receptor potential (TRP) channel TRPC3 TRP domain and AMP-activated protein kinase binding site are required for TRPC3 activation by erythropoietin. **2011**, 286, 30636-30646	22
1283	Balancing calcium signals through TRPC5 and TRPC6 in podocytes. **2011**, 22, 1969-80	86
1282	A TRPC5-regulated calcium signaling pathway controls dendrite patterning in the mammalian brain. **2011**, 25, 2659-73	47
1281	Modular thermal sensors in temperature-gated transient receptor potential (TRP) channels. **2011**, 108, 11109-14	151
1280	Unusual pungency from extra-virgin olive oil is attributable to restricted spatial expression of the receptor of oleocanthal. **2011**, 31, 999-1009	105
1279	Complex regulation of the TRPM8 cold receptor channel: role of arachidonic acid release following M3 muscarinic receptor stimulation. **2011**, 286, 9849-55	18
1278	Identification of a tetrameric assembly domain in the C terminus of heat-activated TRPV1 channels. **2011**, 286, 15308-16	25
1277	Role of reactive oxygen species and redox in regulating the function of transient receptor potential channels. **2011**, 15, 1549-65	38

1276	Transient receptor potential melastatin type 7 channels are involved in zinc-induced apoptosis in gastric cancer. **2011**, 15, 123-130	1
1275	Calcium channels in the development, maturation, and function of spermatozoa. **2011**, 91, 1305-55	232
1274	Endothelial and smooth muscle cell ion channels in pulmonary vasoconstriction and vascular remodeling. **2011**, 1, 1555-602	30
1273	Involvement of TRP channels in the CO□chemosensitivity of locus coeruleus neurons. **2011**, 105, 2791-801	31
1272	Prolonged protein turnover of glyceraldehyde-3-phosphate dehydrogenase by phospholipase C-gamma 1 is critical for anchorage-independent growth and ATP synthesis in transformed cells. **2011**, 29, 93-101	3
1271	Studies on Veterinary Medicine. **2011**,	1
1270	TRIP Database: a manually curated database of protein-protein interactions for mammalian TRP channels. **2011**, 39, D356-61	25
1269	Calcium sensitivity of dicarboxylate transport in cultured proximal tubule cells. **2011**, 300, F425-32	8
1268	The dystrophin-glycoprotein complex in the prevention of muscle damage. **2011**, 2011, 210797	63
1267	Activation of transient receptor potential vanilloid-3 inhibits human hair growth. **2011**, 131, 1605-14	77
1266	Critical role of peripheral actions of intravenous nicotine in mediating its central effects. **2011**, 36, 2125-38	13
1265	Depolarizing bipolar cell dysfunction due to a Trpm1 point mutation. **2012**, 108, 2442-51	40
1264	Detailed examination of Mg2+ and pH sensitivity of human TRPM7 channels. **2012**, 302, C1004-11	36
1263	Canonical transient receptor potential channels in diabetes. **2012**, 237, 111-8	18
1262	The other side of cardiac Ca(2+) signaling: transcriptional control. **2012**, 3, 452	19
1261	Transient receptor potential canonical-3 channel-dependent fibroblast regulation in atrial fibrillation. **2012**, 126, 2051-64	185
1260	Mechanisms and roles of muscarinic activation in guinea-pig adrenal medullary cells. **2012**, 303, C635-44	18
1259	Capsaicin, a TRPV1 Ligand, Suppresses Bone Resorption by Inhibiting the Prostaglandin E Production of Osteoblasts, and Attenuates the Inflammatory Bone Loss Induced by Lipopolysaccharide. **2012**, 2012, 439860	15

1258	TRP channels: sensors and transducers of gasotransmitter signals. **2012**, 3, 324	38
1257	Expression of Transient Receptor Potential Vanilloid (TRPV) channels in different passages of articular chondrocytes. **2012**, 13, 4433-45	25
1256	Stretch-activated cation channel TRPV4 mediates hyposmotically induced prolactin release from prolactin cells of mozambique tilapia Oreochromis mossambicus. **2012**, 302, R1004-11	14
1255	Antioncogenic effects of transient receptor potential vanilloid 1 in the progression of transitional urothelial cancer of human bladder. **2012**, 2012, 458238	21
1254	Platelet-derived growth factor-BB restores human immunodeficiency virus Tat-cocaine-mediated impairment of neurogenesis: role of TRPC1 channels. **2012**, 32, 9835-47	39
1253	Selective disruption of high sensitivity heat activation but not capsaicin activation of TRPV1 channels by pore turret mutations. **2012**, 139, 273-83	82
1252	Transient receptor potential channels in human platelets: expression and functional role. **2012**, 12, 1319-28	11
1251	TRPV4 deficiency increases skeletal muscle metabolic capacity and resistance against diet-induced obesity. **2012**, 112, 1223-32	45
1250	Electrical Excitability and Ion Channels. **2012**, 63-80	1
1249	TRPM8 ion channel is aberrantly expressed and required for preventing replicative senescence in pancreatic adenocarcinoma: potential role of TRPM8 as a biomarker and target. **2012**, 13, 592-9	24
1248	New mechanisms of pulmonary arterial hypertension: role of Ca⁺ signaling. **2012**, 302, H1546-62	132
1247	Activation of TRPC cationic channels by mercurial compounds confers the cytotoxicity of mercury exposure. **2012**, 125, 56-68	30
1246	5,6-EET is released upon neuronal activity and induces mechanical pain hypersensitivity via TRPA1 on central afferent terminals. **2012**, 32, 6364-72	92
1245	Varicose veins: role of mechanotransduction of venous hypertension. **2012**, 2012, 538627	27
1244	Functional expression of TRPV4 channels in human collecting duct cells: implications for secondary hypertension in diabetic nephropathy. **2012**, 2012, 936518	16
1243	Significance of the centrally expressed TRP channel painless in Drosophila courtship memory. **2012**, 20, 34-40	10
1242	Plasmalemmal Na+/Ca2+ exchanger modulates Ca2+-dependent exocytotic release of glutamate from rat cortical astrocytes. **2012**, 4,	78
1241	A mechanism underlying the effects of polyunsaturated fatty acids on breast cancer. **2012**, 30, 487-94	30

1240	[Pathophysiological significance of the canonical transient receptor potential (TRPC) subfamily in astrocyte activation]. **2012**, 132, 587-93	3
1239	Role of TRPM in melanocytes and melanoma. **2012**, 21, 650-4	58
1238	Are TRP channels involved in sperm development and function?. **2012**, 349, 749-64	31
1237	Calcium influx through a possible coupling of cation channels impacts skeletal muscle satellite cell activation in response to mechanical stretch. **2012**, 302, C1741-50	47
1236	Regulation of activity of transient receptor potential melastatin 8 (TRPM8) channel by its short isoforms. **2012**, 287, 2948-62	35
1235	Regulation of particulate matter-induced mucin secretion by transient receptor potential vanilloid 1 receptors. **2012**, 35, 1851-9	6
1234	Membrane-initiated actions of estradiol that regulate reproduction, energy balance and body temperature. **2012**, 33, 376-87	27
1233	The detrimental effect of nitric oxide on tissue is associated with inflammatory events in the vascular endothelium and neutrophils in mice with dextran sodium sulfate-induced colitis. **2012**, 46, 1427-36	46
1232	Calcium regulates podocyte actin dynamics. **2012**, 32, 319-26	47
1231	TRPV1-mediated calcium signal couples with cannabinoid receptors and sodium-calcium exchangers in rat odontoblasts. **2012**, 52, 124-36	56
1230	Phosphoinositide metabolism in Drosophila phototransduction: a coffee break discussion leads to 30 years of history. **2012**, 26, 34-42	2
1229	Renal medullary circulation. **2012**, 2, 97-140	35
1228	TRP channels. **2012**, 2, 563-608	97
1227	Structural and biochemical consequences of disease-causing mutations in the ankyrin repeat domain of the human TRPV4 channel. **2012**, 51, 6195-206	63
1226	Respiratory movement and pain thresholds in airway environmental sensitivity, asthma and COPD. **2012**, 106, 1006-13	13
1225	Unravelling the mystery of capsaicin: a tool to understand and treat pain. **2012**, 64, 939-71	212
1224	The possible role of TRPC6 in atopic dermatitis. **2012**, 78, 42-4	9
1223	Interaction of transient receptor potential vanilloid 4 with annexin A2 and tubulin beta 5. **2012**, 512, 22-7	12

1222	Inflammasome activators induce interleukin-1β secretion via distinct pathways with differential requirement for the protease function of caspase-1. **2012**, 36, 388-400	363
1221	Activation of NMDA receptors leads to phosphorylation of TRPV1 S800 by protein kinase C and A-Kinase anchoring protein 150 in rat trigeminal ganglia. **2012**, 424, 358-63	28
1220	The role of the TRPV6 channel in cancer. **2012**, 590, 1369-76	77
1219	Particulate matter air pollution disrupts endothelial cell barrier via calpain-mediated tight junction protein degradation. **2012**, 9, 35	66
1218	Walking nanothermometers: spatiotemporal temperature measurement of transported acidic organelles in single living cells. **2012**, 12, 1591-3	70
1217	Involvement of Na(+)-leak channel in substance P-induced depolarization of pacemaking activity in interstitial cells of Cajal. **2012**, 29, 501-10	33
1216	TRPC6 inhibited NMDA receptor activities and protected neurons from ischemic excitotoxicity. **2012**, 123, 1010-8	37
1215	Targeting ion channels for the treatment of gastrointestinal motility disorders. **2012**, 5, 5-21	46
1214	TRPV4 in porcine lens epithelium regulates hemichannel-mediated ATP release and Na-K-ATPase activity. **2012**, 302, C1751-61	65
1213	6.4 Biophysics of TRP Channels. **2012**, 68-107	2
1212	TRP-Mediated Cytoskeletal Reorganization: Implications for Disease and Drug Development. **2012**, 13-39	1
1211	TRPA1 in Drug Discovery. **2012**, 43-59	4
1210	The TRPP Signaling Module: TRPP2/Polycystin-1 and TRPP2/PKD1L1. **2012**, 193-219	1
1209	TRPs to Cardiovascular Disease. **2012**, 3-40	1
1208	The channel physiology of the skin. **2012**, 163, 65-131	8
1207	The role of TRPV1 channel in aged human skin. **2012**, 65, 81-5	51
1206	Mechanoregulation of cytoskeletal dynamics by TRP channels. **2012**, 91, 834-46	45
1205	Leptin increases temperature-dependent chorda tympani nerve responses to sucrose in mice. **2012**, 107, 533-9	26

1204	The role of ginseng total saponin in transient receptor potential melastatin type 7 channels. **2012**, 16, 376-384	2
1203	Molecular Mechanisms of Intestinal Transport of Calcium, Phosphate, and Magnesium. **2012**, 1877-1919	3
1202	Evidence for functional expression of TRPM7 channels in human atrial myocytes. **2012**, 107, 282	44
1201	Molecular role of catalase on oxidative stress-induced Ca(2+) signaling and TRP cation channel activation in nervous system. **2012**, 32, 134-41	125
1200	Detection and quantification of biomolecular association in living cells using single-molecule microscopy. **2012**, 505, 159-86	19
1199	Mechanisms underlying stage-1 TRPL channel translocation in Drosophila photoreceptors. **2012**, 7, e31622	7
1198	Persistent histamine excitation of glutamatergic preoptic neurons. **2012**, 7, e47700	14
1197	Transient Receptor Potential (TRP) Channels in the Eye. **2012**,	1
1196	Leucettamols, bifunctionalized marine sphingoids, act as modulators of TRPA1 and TRPM8 channels. **2012**, 10, 2435-47	18
1195	TRPC Channels and Their Splice Variants are Essential for Promoting Human Ovarian Cancer Cell Proliferation and Tumorigenesis. **2012**, 13, 103-116	5
1194	Receptor and channel heteromers as pain targets. **2012**, 5, 249-78	5
1193	Supercooling agent icilin blocks a warmth-sensing ion channel TRPV3. **2012**, 2012, 982725	17
1192	Mechanisms of motility change on trinitrobenzenesulfonic Acid-induced colonic inflammation in mice. **2012**, 16, 437-46	17
1191	Fused piperidines as a novel class of potent and orally available transient receptor potential melastatin type 8 (TRPM8) antagonists. **2012**, 55, 1593-611	44
1190	Transient receptor potential vanilloid 1 receptors mediate acid-induced mucin secretion via Ca2+ influx in human airway epithelial cells. **2012**, 26, 179-86	17
1189	HTS techniques for patch clamp-based ion channel screening - advances and economy. **2012**, 7, 515-24	33
1188	G protein-mediated stretch reception. **2012**, 302, H1241-9	118
1187	The TRPV5/6 calcium channels contain multiple calmodulin binding sites with differential binding properties. **2012**, 13, 91-100	23

1186	Effects of a non-selective TRPC channel blocker, SKF-96365, on melittin-induced spontaneous persistent nociception and inflammatory pain hypersensitivity. **2012**, 28, 173-81	27
1185	The TRPM8 ion channel comprises direct Gq protein-activating capacity. **2012**, 463, 779-97	27
1184	Transient receptor potential A1 receptor-mediated neural cross-talk and afferent sensitization induced by oxidative stress: implication for the pathogenesis of interstitial cystitis/bladder pain syndrome. **2012**, 19, 429-36	16
1183	17β-oestradiol regulation of gonadotrophin-releasing hormone neuronal excitability. **2012**, 24, 122-30	14
1182	The juvenile myoclonic epilepsy-related protein EFHC1 interacts with the redox-sensitive TRPM2 channel linked to cell death. **2012**, 51, 179-85	35
1181	A TRPC1-mediated increase in store-operated Ca2+ entry is required for the proliferation of adult hippocampal neural progenitor cells. **2012**, 51, 486-96	58
1180	Trpc2 depletion protects red blood cells from oxidative stress-induced hemolysis. **2012**, 40, 71-83	14
1179	Biophysical characterization of the isolated C-terminal region of the transient receptor potential vanilloid 1. **2012**, 586, 1154-9	4
1178	Proton-gated ion channels in mouse bone marrow stromal cells. **2012**, 9, 59-68	15
1177	Regulation of TRPM8 channel activity. **2012**, 353, 68-74	62
1176	TRPA1 antagonists as potential analgesic drugs. **2012**, 133, 189-204	114
1175	Effect of oxidative stress on TRPM2 and TRPC3 channels in B lymphoblast cells in bipolar disorder. **2012**, 14, 151-61	30
1174	Pseudomonas aeruginosa-derived rhamnolipids subvert the host innate immune response through manipulation of the human beta-defensin-2 expression. **2012**, 14, 1364-75	25
1173	Mechanisms controlling neurite outgrowth in a pheochromocytoma cell line: the role of TRPC channels. **2012**, 227, 1408-19	24
1172	Expression of TRPV4 in the zebrafish retina during development. **2012**, 75, 743-8	8
1171	20-O-β-d-glucopyranosyl-20(S)-protopanaxadiol, a metabolite of ginseng, inhibits colon cancer growth by targeting TRPC channel-mediated calcium influx. **2013**, 24, 1096-104	29
1170	Developmental Changes in the Expression of TRPV1 Channels in Autonomic Nervous System Neurons. **2013**, 43, 743-747	5
1169	Developmental Changes in NF200+ Neurons in Sensory Ganglia at Different Segmental Levels on Chemical Deafferentation. **2013**, 43, 602-606	2

1168	Down-Regulation of TRPM5s During the Development of the Rat Neocortex and Hippocampus. **2013**, 45, 112-119	
1167	Optical control of TRPV1 channels. **2013**, 52, 9845-8	46
1166	TRPC6 inhibited NMDA current in cultured hippocampal neurons. **2013**, 15, 389-95	16
1165	Neuroprotective effect of resveratrol on ischemia/reperfusion injury in rats through TRPC6/CREB pathways. **2013**, 50, 504-13	58
1164	TRPM7 channel regulates PDGF-BB-induced proliferation of hepatic stellate cells via PI3K and ERK pathways. **2013**, 272, 713-25	58
1163	Analogues of perillaketone as highly potent agonists of TRPA1 channel. **2013**, 141, 2044-51	17
1162	Regulation of calcium influx and signaling pathway in cancer cells via TRPV6-Numb1 interaction. **2013**, 53, 102-11	22
1161	Synthesis and pharmacological evaluation of novel N-aryl-3,4-dihydro-1'H-spiro[chromene-2,4'-piperidine]-1'-carboxamides as TRPM8 antagonists. **2013**, 21, 6542-53	23
1160	TRP channels and analgesia. **2013**, 92, 415-24	82
1159	Kisspeptin excitation of GnRH neurons. **2013**, 784, 113-31	26
1158	Phylogeny and expression of canonical transient receptor potential (TRPC) genes in developing zebrafish. **2013**, 242, 1427-41	13
1157	Crystal structure of the N-terminal ankyrin repeat domain of TRPV3 reveals unique conformation of finger 3 loop critical for channel function. **2013**, 4, 942-50	28
1156	Flow-induced activation of TRPV5 and TRPV6 channels stimulates Ca(2+)-activated K(+) channel causing membrane hyperpolarization. **2013**, 1833, 3046-3053	13
1155	mRNA expression of ion channels in GnRH neurons: subtype-specific regulation by 17□-estradiol. **2013**, 367, 85-97	70
1154	Lack of transient receptor potential melastatin 8 activation by phthalate esters that enhance contact hypersensitivity in mice. **2013**, 217, 192-6	6
1153	Pre-clinical studies in cough research: role of Transient Receptor Potential (TRP) channels. **2013**, 26, 498-507	44
1152	Immunolocalization and distribution of functional temperature-sensitive TRP channels in salivary glands. **2013**, 354, 507-19	11
1151	TRPA1 and other TRP channels in migraine. **2013**, 14, 71	47

1150	Heterologous expression and purification of an active human TRPV3 ion channel. **2013**, 280, 6010-21	5
1149	Free-energy relationships in ion channels activated by voltage and ligand. **2013**, 141, 11-28	30
1148	Late-onset bursts evoked by mossy fibre bundle stimulation in unipolar brush cells: evidence for the involvement of H- and TRP-currents. **2013**, 591, 899-918	14
1147	The role of waixenicin A as transient receptor potential melastatin 7 blocker. **2013**, 112, 83-9	24
1146	The reverse roles of transient receptor potential canonical channel-3 and -6 in neuronal death following pilocarpine-induced status epilepticus. **2013**, 33, 99-109	34
1145	A cool way to live long. **2013**, 152, 671-2	9
1144	UV light phototransduction activates transient receptor potential A1 ion channels in human melanocytes. **2013**, 110, 2383-8	92
1143	Functional coupling of TRPC2 cation channels and the calcium-activated anion channels in rat thyroid cells: implications for iodide homeostasis. **2013**, 228, 814-23	22
1142	Ca(V)1.1: The atypical prototypical voltage-gated Ca□+ channel. **2013**, 1828, 1587-97	59
1141	TRPV1 antagonist capsazepine suppresses 4-AP-induced epileptiform activity in vitro and electrographic seizures in vivo. **2013**, 250, 321-32	66
1140	Molecular mechanism for trimetric G protein-coupled thermosensation and synaptic regulation in the temperature response circuit of Caenorhabditis elegans. **2013**, 76, 119-24	10
1139	Thermal application modulates orofacial somatosensory perception in healthy men and women. **2013**, 124, 581-8	2
1138	Opportunistic activation of TRP receptors by endogenous lipids: exploiting lipidomics to understand TRP receptor cellular communication. **2013**, 92, 404-9	39
1137	Effect of VX-770 (ivacaftor) and OAG on Ca2+ influx and CFTR activity in G551D and F508del-CFTR expressing cells. **2013**, 12, 584-91	12
1136	Activation of TRPC4□by G□subunit increases Ca2+ selectivity and controls neurite morphogenesis in cultured hippocampal neuron. **2013**, 54, 307-19	31
1135	Effect of conditioned pain modulation on trigeminal somatosensory function evaluated by quantitative sensory testing. **2013**, 154, 2684-2690	24
1134	The TRPM2 ion channel, an oxidative stress and metabolic sensor regulating innate immunity and inflammation. **2013**, 55, 241-8	98
1133	A TRP among the astrocytes. **2013**, 591, 9-15	8

1132	Renal Cortical and Medullary Microcirculations. **2013**, 803-857	2
1131	Calcium Channels. **2013**, 2167-2185	
1130	Calcium-dependent deceleration of the cell cycle in muscle cells by simulated microgravity. **2013**, 27, 2045-54	27
1129	Respiratory Regulation - The Molecular Approach. **2013**,	1
1128	Hypotonic-induced stretching of plasma membrane activates transient receptor potential vanilloid channels and sodium-calcium exchangers in mouse odontoblasts. **2013**, 39, 779-87	48
1127	Endothelial transient receptor potential conical channel (TRPC)-3 activation induces vasogenic edema formation in the rat piriform cortex following status epilepticus. **2013**, 33, 575-85	16
1126	Calcium supplementation increases circulating cholesterol by reducing its catabolism via GPER and TRPC1-dependent pathway in estrogen deficient women. **2013**, 168, 2548-60	22
1125	Encyclopedia of Metalloproteins. **2013**, 2151-2151	
1124	Eugenol as Local Anesthetic. **2013**, 4001-4015	5
1123	Cardiac and respiratory dysfunction in Duchenne muscular dystrophy and the role of second messengers. **2013**, 33, 1174-213	43
1122	Design and synthesis of conformationally restricted capsaicin analogues based in the 1, 3, 4-thiadiazole heterocycle reveal a novel family of transient receptor potential vanilloid 1 (TRPV1) antagonists. **2013**, 66, 193-203	8
1121	Molecular mechanism of TRP channels. **2013**, 3, 221-42	205
1120	Protein kinase C inhibitor BIM suspended TRPV1 effect on mu-opioid receptor. **2013**, 90, 114-7	5
1119	Expression and regulation of transient receptor potential cation channel, subfamily M, member 2 (TRPM2) in human endometrium. **2013**, 365, 146-52	15
1118	Emerging novel functions of the oxygen-sensing prolyl hydroxylase domain enzymes. **2013**, 38, 3-11	104
1117	Structure-activity relationship of adenosine 5'-diphosphoribose at the transient receptor potential melastatin 2 (TRPM2) channel: rational design of antagonists. **2013**, 56, 10079-102	48
1116	Transient receptor potential canonical 3 inhibitor Pyr3 improves outcomes and attenuates astrogliosis after intracerebral hemorrhage in mice. **2013**, 44, 1981-7	54
1115	A Computational Prediction of Conserved MicroRNA Targets of Ion Channels in Vertebrates. **2013**, 8, 93-111	1

1114	WITHDRAWN: Static High-Gradient Magnetic Fields Activate Transient Receptor Potential Vanilloid 4 (TRPV4) Ion Channels Enabling Remote Control of Cell Function. **2013**,	
1113	254C>G: a TRPC6 promoter variation associated with enhanced transcription and steroid-resistant nephrotic syndrome in Chinese children. **2013**, 74, 511-6	11
1112	[6]-gingerol: a novel AT antagonist for the treatment of cardiovascular disease. **2013**, 79, 322-6	34
1111	Role of TRPM2 in cell proliferation and susceptibility to oxidative stress. **2013**, 304, C548-60	42
1110	Rapid sensitization of physiological, neuronal, and locomotor effects of nicotine: critical role of peripheral drug actions. **2013**, 33, 9937-49	21
1109	Kisspeptin activation of TRPC4 channels in female GnRH neurons requires PIP2 depletion and cSrc kinase activation. **2013**, 154, 2772-83	45
1108	Thermosensitive ion channel TRPV1 is endogenously expressed in the sperm of a fresh water teleost fish (Labeo rohita) and regulates sperm motility. **2013**, 7, 483-92	28
1107	Prolonged high fat/alcohol exposure increases TRPV4 and its functional responses in pancreatic stellate cells. **2013**, 304, R702-11	20
1106	Molecular changes in the early phase of renin-dependent cardiac hypertrophy in hypertensive cyp1a1ren-2 transgenic rats. **2013**, 14, 41-50	4
1105	A TRPV4 channel C-terminal folding recognition domain critical for trafficking and function. **2013**, 288, 10427-39	31
1104	KHARON1 mediates flagellar targeting of a glucose transporter in Leishmania mexicana and is critical for viability of infectious intracellular amastigotes. **2013**, 288, 22721-33	18
1103	Drosophila TRP and TRPL are assembled as homomultimeric channels in vivo. **2013**, 126, 3121-33	8
1102	DAG-sensitive and Ca(2+) permeable TRPC6 channels are expressed in dentate granule cells and interneurons in the hippocampal formation. **2013**, 23, 221-32	18
1101	Sphingosine and FTY720 are potent inhibitors of the transient receptor potential melastatin 7 (TRPM7) channels. **2013**, 168, 1294-312	74
1100	Increased expression of the transient receptor potential cation channel 6 gene in patients with primary open-angle glaucoma. **2013**, 41, 753-60	8
1099	Role of TRPM2 cation channels in dorsal root ganglion of rats after experimental spinal cord injury. **2013**, 48, 945-50	16
1098	Impact of TRPV3 on the development of allergic dermatitis as a dendritic cell modulator. **2013**, 22, 820-4	22
1097	Gastrin-releasing peptide acts via postsynaptic BB2 receptors to modulate inward rectifier K+ and TRPV1-like conductances in rat paraventricular thalamic neurons. **2013**, 591, 1823-39	22

1096	Canonical transient receptor potential 3 channels regulate mitochondrial calcium uptake. **2013**, 110, 11011-6	88
1095	Molecular bases of multimodal regulation of a fungal transient receptor potential (TRP) channel. **2013**, 288, 15303-17	13
1094	Nuclear factor B mediates suppression of canonical transient receptor potential 6 expression by reactive oxygen species and protein kinase C in kidney cells. **2013**, 288, 12852-65	31
1093	Direct imaging of ER calcium with targeted-esterase induced dye loading (TED). **2013**, e50317	25
1092	Cyclic ADP-Ribose and NAADP in Vascular Regulation and Diseases. **2013**, 2, 63-85	14
1091	TRPC Channels and Their Splice Variants are Essential for Promoting Human Ovarian Cancer Cell Proliferation and Tumorigenesis. **2013**, 13, 103-116	49
1090	Optische Kontrolle von TRPV1-Kanlen. **2013**, 125, 10028-10032	6
1089	Fatty acid composition of Drosophila photoreceptor light-sensitive microvilli. **2013**, 46, 289-94	4
1088	Involvement of melastatin type transient receptor potential 7 channels in ginsenoside Rd-induced apoptosis in gastric and breast cancer cells. **2013**, 37, 201-9	40
1087	Characterization of functional TRPV1 channels in the sarcoplasmic reticulum of mouse skeletal muscle. **2013**, 8, e58673	60
1086	The involvement of PI3K-mediated and L-VGCC-gated transient Ca2+ influx in 17-estradiol-mediated protection of retinal cells from H2O2-induced apoptosis with Ca2+ overload. **2013**, 8, e77218	18
1085	Pathobiology of cancer chemotherapy-induced peripheral neuropathy (CIPN). **2013**, 4, 156	157
1084	The long-term administration of Orai 1 antagonist possesses antitussive, bronchodilatory and anti-inflammatory effects in experimental asthma model. **2013**, 32, 251-9	8
1083	In vivo monitoring of chemically evoked activity patterns in the rat trigeminal ganglion. **2013**, 7, 64	2
1082	Encyclopedia of Metalloproteins. **2013**, 2203-2212	
1081	Role Of PKGI-mediated Spinal Dorsal Horn Plasticity In Chronic Pain. **2014**, 03,	
1080	Mutation of the melastatin-related cation channel, TRPM3, underlies inherited cataract and glaucoma. **2014**, 9, e104000	28
1079	Computational modeling predicts the ionic mechanism of late-onset responses in unipolar brush cells. **2014**, 8, 237	10

1078	Differential contribution of TRPM4 and TRPM5 nonselective cation channels to the slow afterdepolarization in mouse prefrontal cortex neurons. **2014**, 8, 267	26
1077	TRPV1 in Salivary Gland Epithelial Cells Is Not Involved in Salivary Secretion via Transcellular Pathway. **2014**, 18, 525-30	4
1076	Microscopic heat pulse-induced calcium dynamics in single WI-38 fibroblasts. **2014**, 10, 109-19	12
1075	Characterization of temperature-sensing and PIP2-regulation of TRPV1 ion channel at the C-terminal domain using NMR spectroscopy and Molecular Dynamics Simulations. **2014**, 4,	1
1074	. **2014**,	
1073	Transcellular chaperone signaling: an organismal strategy for integrated cell stress responses. **2014**, 217, 129-36	37
1072	Persistent β1-adrenergic receptor function in the nucleus locus coeruleus causes hyperexcitability in AD/HD model rats. **2014**, 111, 777-86	8
1071	Metabolism regulates the spontaneous firing of substantia nigra pars reticulata neurons via KATP and nonselective cation channels. **2014**, 34, 16336-47	38
1070	Transnitrosylation directs TRPA1 selectivity in N-nitrosamine activators. **2014**, 85, 175-85	21
1069	Intrathecal AAV serotype 9-mediated delivery of shRNA against TRPV1 attenuates thermal hyperalgesia in a mouse model of peripheral nerve injury. **2014**, 22, 409-419	40
1068	Flow shear stress enhances intracellular Ca2+ signaling in pulmonary artery smooth muscle cells from patients with pulmonary arterial hypertension. **2014**, 307, C373-83	46
1067	Prolactin receptor in regulation of neuronal excitability and channels. **2014**, 8, 193-202	50
1066	TRPM5. **2014**, 222, 489-502	22
1065	Transient receptor potential cation channel V1 (TRPV1) is degraded by starvation- and glucocorticoid-mediated autophagy. **2014**, 37, 257-63	21
1064	Minor and Short-Acting Analgesics, Including Opioid Combination Products. **2014**, 508-529.e6	3
1063	The Pathophysiologic Roles of TRPM7 Channel. **2014**, 18, 15-23	32
1062	Trafficking of ThermoTRP Channels. **2014**, 4, 525-64	68
1061	Expression and significance of transient receptor potential cation channel V5 in articular cartilage cells under exercise loads. **2014**, 2, 813-817	4

1060	A structural view of ligand-dependent activation in thermoTRP channels. **2014**, 5, 171	41
1059	Steroidal and non-steroidal third-generation aromatase inhibitors induce pain-like symptoms via TRPA1. **2014**, 5, 5736	42
1058	TRPC3 mediates hyperexcitability and epileptiform activity in immature cortex and experimental cortical dysplasia. **2014**, 111, 1227-37	14
1057	General flexible nature of the cytosolic regions of fungal transient receptor potential (TRP) channels, revealed by expression screening using GFP-fusion techniques. **2014**, 23, 923-31	1
1056	First evidence of TRPV5 and TRPV6 channels in human parathyroid glands: possible involvement in neoplastic transformation. **2014**, 18, 1944-52	7
1055	TRP channels in the skin. **2014**, 171, 2568-81	75
1054	Riluzole activates TRPC5 channels independently of PLC activity. **2014**, 171, 158-70	31
1053	Function and regulation of the channel-kinase TRPM7 in health and disease. **2014**, 93, 455-65	53
1052	The TRPP subfamily and polycystin-1 proteins. **2014**, 222, 675-711	31
1051	Ion Channels in the Cell Membrane: Structure, Function, and Modeling. **2014**, 71-81	
1050	Expression of TRPV1 in the C57BL/6 mice brain hippocampus and cortex during development. **2014**, 25, 379-85	13
1049	Transient receptor potential channels and occupational exposure. **2014**, 14, 77-83	26
1048	MycN promotes TRPM7 expression and cell migration in neuroblastoma through a process that involves polyamines. **2014**, 4, 966-75	9
1047	Mitohormesis: Promoting Health and Lifespan by Increased Levels of Reactive Oxygen Species (ROS). **2014**, 12, 288-341	281
1046	Calcium Channels in the Heart. **2014**, 13-22	1
1045	Ion channel TRPV1-dependent activation of PTP1B suppresses EGFR-associated intestinal tumorigenesis. **2014**, 124, 3793-806	50
1044	Ion channel profile of TRPM8 cold receptors reveals a role of TASK-3 potassium channels in thermosensation. **2014**, 8, 1571-82	62
1043	Post-Translational Modifications of TRP Channels. **2014**, 3, 258-87	26

1042	Cellular and Developmental Biology of TRPM7 Channel-Kinase: Implicated Roles in Cancer. **2014**, 3, 751-77	34
1041	TRPV1 and Endocannabinoids: Emerging Molecular Signals that Modulate Mammalian Vision. **2014**, 3, 914-38	38
1040	Membrane channels as integrators of G-protein-mediated signaling. **2014**, 1838, 521-31	19
1039	Transient receptor potential (TRP) channels: a clinical perspective. **2014**, 171, 2474-507	222
1038	Adaptive responses of TRPC1 and TRPC3 during skeletal muscle atrophy and regrowth. **2014**, 49, 691-9	22
1037	Contribution of calcium-conducting channels to the transport of zinc ions. **2014**, 466, 381-7	29
1036	Thermal sensation and cell adaptability. **2014**, 58, 325-35	5
1035	Reciprocal positive regulation between TRPV6 and NUMB in PTEN-deficient prostate cancer cells. **2014**, 447, 192-6	10
1034	The TRPA1 channel in migraine mechanism and treatment. **2014**, 171, 2552-67	88
1033	G-protein-coupled receptor participates in 20-hydroxyecdysone signaling on the plasma membrane. **2014**, 12, 9	30
1032	The effects of Nigella sativa (Ns), Anthemis hyalina (Ah) and Citrus sinensis (Cs) extracts on the replication of coronavirus and the expression of TRP genes family. **2014**, 41, 1703-11	78
1031	Serotonin induces depolarization in lateral amygdala neurons by activation of TRPC-like current and inhibition of GIRK current depending on 5-HT(2C) receptor. **2014**, 82, 49-58	20
1030	Opening of an alternative ion permeation pathway in a nociceptor TRP channel. **2014**, 10, 188-95	64
1029	Embryonic thermosensitive TRPA1 determines transgenerational diapause phenotype of the silkworm, Bombyx mori. **2014**, 111, E1249-55	59
1028	Molecular action mechanisms of solar infrared radiation and heat on human skin. **2014**, 16, 1-11	95
1027	Orexin/hypocretin receptor signalling: a functional perspective. **2014**, 171, 294-313	91
1026	Mammalian Transient Receptor Potential (TRP) Cation Channels. **2014**,	18
1025	Functional TRPV and TRPM channels in human preadipocytes. **2014**, 466, 947-59	25

1024	TRP channels and STIM/ORAI proteins: sensors and effectors of cancer and stroma cell migration. **2014**, 171, 5524-40	38
1023	TRP-channels as key integrators of lipid pathways in nociceptive neurons. **2014**, 53, 93-107	43
1022	Calcium deficiency-induced and TRP channel-regulated IGF1R-PI3K-Akt signaling regulates abnormal epithelial cell proliferation. **2014**, 21, 568-81	53
1021	Redox regulation of transient receptor potential channels. **2014**, 21, 971-86	97
1020	Lipid modulation of thermal transient receptor potential channels. **2014**, 74, 135-80	9
1019	Temperature sensing by thermal TRP channels: thermodynamic basis and molecular insights. **2014**, 74, 19-50	28
1018	TRPM7 is required for ovarian cancer cell growth, migration and invasion. **2014**, 454, 547-53	39
1017	Intimacies and physiological role of the polymodal cold-sensitive ion channel TRPM8. **2014**, 74, 293-324	16
1016	Transient receptor potential (TRP) channels in the airway: role in airway disease. **2014**, 171, 2593-607	119
1015	LE135, a retinoid acid receptor antagonist, produces pain through direct activation of TRP channels. **2014**, 171, 1510-20	5
1014	Novel drug targets for asthma and COPD: lessons learned from in vitro and in vivo models. **2014**, 29, 181-98	21
1013	Direct evidence of intracrine angiotensin II signaling in neurons. **2014**, 306, C736-44	17
1012	Interaction among the vacuole, the mitochondria, and the oxidative stress response is governed by the transient receptor potential channel in Candida albicans. **2014**, 77, 152-67	28
1011	A molecular framework for temperature-dependent gating of ion channels. **2014**, 158, 1148-1158	81
1010	Building a temperature-sensitive ion channel. **2014**, 158, 977-979	4
1009	Oncogenic role and therapeutic target of transient receptor potential melastatin 7 channel in malignancy. **2014**, 18, 1177-96	14
1008	Resveratrol prevents cigarette smoke-induced keratinocytes damage. **2014**, 5, 2348-56	21
1007	Allodynia and hyperalgesia in neuropathic pain: clinical manifestations and mechanisms. **2014**, 13, 924-35	389

1006	Divalent cations potentiate TRPV1 channel by lowering the heat activation threshold. **2014**, 143, 75-90	30
1005	Scaling of immune responses against intracellular bacterial infection. **2014**, 33, 2283-94	29
1004	The pharmacology of the cytochrome P450 epoxygenase/soluble epoxide hydrolase axis in the vasculature and cardiovascular disease. **2014**, 66, 1106-40	100
1003	Mutation of I696 and W697 in the TRP box of vanilloid receptor subtype I modulates allosteric channel activation. **2014**, 143, 361-75	31
1002	Defective channels lead to an impaired skin barrier. **2014**, 127, 4343-50	16
1001	Transient receptor potential channels as drug targets: from the science of basic research to the art of medicine. **2014**, 66, 676-814	320
1000	Activation of TRPC channels contributes to OA-NO2-induced responses in guinea-pig dorsal root ganglion neurons. **2014**, 592, 4297-312	6
999	Bidirectional modulation of thermal and chemical sensitivity of TRPM8 channels by the initial region of the N-terminal domain. **2014**, 289, 21828-43	21
998	Agomelatine and duloxetine synergistically modulates apoptotic pathway by inhibiting oxidative stress triggered intracellular calcium entry in neuronal PC12 cells: role of TRPM2 and voltage-gated calcium channels. **2014**, 247, 451-9	39
997	Localization of the calcium-regulated citrate transport process in proximal tubule cells. **2014**, 42, 209-19	8
996	TRP modulation by natural compounds. **2014**, 223, 1177-238	33
995	Arachidonic acid activates release of calcium ions from reticulum via ryanodine receptor channels in C2C12 skeletal myotubes. **2014**, 79, 435-9	5
994	Transient receptor potential channels as targets for phytochemicals. **2014**, 5, 1117-30	45
993	Mammalian Transient Receptor Potential (TRP) Cation Channels. **2014**,	13
992	Calcium-permeable ion channels in pain signaling. **2014**, 94, 81-140	183
991	The region adjacent to the C-end of the inner gate in transient receptor potential melastatin 8 (TRPM8) channels plays a central role in allosteric channel activation. **2014**, 289, 28579-94	23
990	Induction of TRPV5 expression by small activating RNA targeting gene promoter as a novel approach to regulate cellular calcium transportation. **2014**, 114, 70-6	3
989	Involvement of transient receptor potential melastatin-8 (TRPM8) in menthol-induced calcium entry, reactive oxygen species production and cell death in rheumatoid arthritis rat synovial fibroblasts. **2014**, 725, 1-9	21

988	Insulin excites anorexigenic proopiomelanocortin neurons via activation of canonical transient receptor potential channels. **2014**, 19, 682-93	142
987	Decreased anxiety-like behavior and G/11-dependent responses in the amygdala of mice lacking TRPC4 channels. **2014**, 34, 3653-67	66
986	Participation of interleukin 17A in neuroimmune interactions. **2014**, 41, 1-9	38
985	Heteromeric TRPC3 with TRPC1 formed via its ankyrin repeats regulates the resting cytosolic Ca2+ levels in skeletal muscle. **2014**, 446, 454-9	17
984	Caspase-11 controls interleukin-1release through degradation of TRPC1. **2014**, 6, 1122-1128	73
983	Plasma membranes as heat stress sensors: from lipid-controlled molecular switches to therapeutic applications. **2014**, 1838, 1594-618	86
982	TNF-TNFR1 signaling is required for the development and function of primary nociceptors. **2014**, 82, 587-602	60
981	Plasma membrane stretch activates transient receptor potential vanilloid and ankyrin channels in Merkel cells from hamster buccal mucosa. **2014**, 55, 208-18	20
980	Nicotinic acid activates the capsaicin receptor TRPV1: Potential mechanism for cutaneous flushing. **2014**, 34, 1272-80	25
979	Transient receptor potential melastatin 2 protects mice against polymicrobial sepsis by enhancing bacterial clearance. **2014**, 121, 336-51	32
978	Quercetin induces apoptosis by inhibiting MAPKs and TRPM7 channels in AGS cells. **2014**, 33, 1657-63	32
977	Co-localization of TRPV2 and insulin-like growth factor-I receptor in olfactory neurons in adult and fetal mouse. **2014**, 37, 1907-12	4
976	Chemical Signaling in Amphibians. **2014**, 275-304	2
975	Estradiol and Kisspeptin Modulation of Gonadotropin-Releasing Hormone (GnRH) Neuronal Excitability. **2014**, 301-321	
974	Role of Interleukin-31 and Oncostatin M in Itch and Neuroimmune Communication. **2014**, 259-278	10
973	GABAA Receptors. **2015**, 365-380	
972	Alternative Splicing. **2015**, 565-576	
971	TRPC1 is required for survival and proliferation of cochlear spiral ganglion stem/progenitor cells. **2015**, 79, 2290-4	6

970	Danger- and pathogen-associated molecular patterns recognition by pattern-recognition receptors and ion channels of the transient receptor potential family triggers the inflammasome activation in immune cells and sensory neurons. **2015**, 12, 21	89
969	GPCR-mediated EGF receptor transactivation regulates TRPV4 action in the vasculature. **2015**, 172, 2493-506	31
968	Adjuvant Effect of an Alternative Plasticizer, Diisopropyl Adipate, on a Contact Hypersensitivity Mouse Model: Link with Sensory Ion Channel TRPA1 Activation. **2015**, 38, 1054-62	9
967	Regulation of TRPC6 ion channels in podocytes - Implications for focal segmental glomerulosclerosis and acquired forms of proteinuric diseases. **2015**, 102, 241-51	9
966	Trigeminal Chemesthesis. **2015**, 1089-1112	5
965	La(3+) Alters the Response Properties of Neurons in the Mouse Primary Somatosensory Cortex to Low-Temperature Noxious Stimulation of the Dental Pulp. **2015**, 8, 9-20	0
964	Inhibition of TRPM7 Attenuates Rat Aortic Smooth Muscle Cell Proliferation Induced by Angiotensin II: Role of Genistein. **2015**, 66, 16-24	6
963	TRPV4 Is Required for Hypoxic Pulmonary Vasoconstriction. **2015**, 122, 1338-48	46
962	Mitochondrial Ca2+ Transport in the Control of Neuronal Functions. **2015**, 101-129	0
961	LIGAND-RECEPTOR INTERACTIONS AND DRUG DESIGN. **2015**, 8, 21-3	1
960	Identification of Molecular Fingerprints in Human Heat Pain Thresholds by Use of an Interactive Mixture Model R Toolbox (AdaptGauss). **2015**, 16, 25897-911	25
959	Phytochemicals from Ruta graveolens Activate TAS2R Bitter Taste Receptors and TRP Channels Involved in Gustation and Nociception. **2015**, 20, 18907-22	26
958	The GTP- and Phospholipid-Binding Protein TTD14 Regulates Trafficking of the TRPL Ion Channel in Drosophila Photoreceptor Cells. **2015**, 11, e1005578	5
957	Store-operated calcium entry and the localization of STIM1 and Orai1 proteins in isolated mouse sinoatrial node cells. **2015**, 6, 69	20
956	Heat Perception and Aversive Learning in Honey Bees: Putative Involvement of the Thermal/Chemical Sensor AmHsTRPA. **2015**, 6, 316	14
955	Transient Receptor Potential (TRP) Channels. **2015**,	0
954	A Potent and Site-Selective Agonist of TRPA1. **2015**, 137, 15859-64	29
953	TRPM channels and magnesium in early embryonic development. **2015**, 59, 281-8	28

952	Examination of Single Nucleotide Polymorphisms (SNPs) in Transient Receptor Potential (TRP) Ion Channels in Chronic Fatigue Syndrome Patients. **2015**, 7, III.S25147	8
951	Photoswitchable fatty acids enable optical control of TRPV1. **2015**, 6, 7118	96
950	Different Channels. **2015**, 1-17	
949	Mucociliary Function. **2015**, 561-579	1
948	Novel Targets of Current Analgesic Drug Development. **2015**, 859-873	
947	A TRP Channel Senses Lysosome Neutralization by Pathogens to Trigger Their Expulsion. **2015**, 161, 1306-19	174
946	PIP2 and PIP3 interact with N-terminus region of TRPM4 channel. **2015**, 205, 24-32	21
945	Fluid shear triggers microvilli formation via mechanosensitive activation of TRPV6. **2015**, 6, 8871	89
944	TRP Channels: Their Function and Potentiality as Drug Targets. **2015**, 195-218	11
943	Characterization of the part of N-terminal PIP2 binding site of the TRPM1 channel. **2015**, 207, 135-42	8
942	TRP channel-associated factors are a novel protein family that regulates TRPM8 trafficking and activity. **2015**, 208, 89-107	50
941	Single-molecule bioelectronics. **2015**, 7, 475-93	12
940	Suppression of transient receptor potential canonical channel 4 inhibits vascular endothelial growth factor-induced retinal neovascularization. **2015**, 57, 101-8	20
939	Selective targeting of the δ-subunit of GABAA receptors relaxes airway smooth muscle and inhibits cellular calcium handling. **2015**, 308, L931-42	37
938	Targeting TRP channels for chronic cough: from bench to bedside. **2015**, 388, 401-20	44
937	Upregulation and Diverse Roles of TRPC3 and TRPC6 in Synaptic Reorganization of the Mossy Fiber Pathway in Temporal Lobe Epilepsy. **2015**, 52, 562-72	18
936	TRPC3 channels critically regulate hippocampal excitability and contextual fear memory. **2015**, 281, 69-77	37
935	Lipoic-based TRPA1/TRPV1 antagonist to treat orofacial pain. **2015**, 6, 380-5	13

934	Interaction of a peptide derived from C-terminus of human TRPA1 channel with model membranes mimicking the inner leaflet of the plasma membrane. **2015**, 1848, 1147-56	7
933	Sensory TRP channels: the key transducers of nociception and pain. **2015**, 131, 73-118	81
932	Ca2+ entry via Trpm2 is essential for cardiac myocyte bioenergetics maintenance. **2015**, 308, H637-50	41
931	Local heat activation of single myosins based on optical trapping of gold nanoparticles. **2015**, 15, 2456-61	22
930	Interaction between mitsugumin 29 and TRPC3 participates in regulating Ca(2+) transients in skeletal muscle. **2015**, 464, 133-9	10
929	The possible relationship between expressions of TRPC3/5 channels and cognitive changes in rat model of chronic unpredictable stress. **2015**, 290, 180-6	8
928	TRPV1 activation is involved in the cardioprotection of remote limb ischemic postconditioning in ischemia-reperfusion injury rats. **2015**, 463, 1034-9	30
927	Antiallodynic and antihyperalgesic effects of zerumbone on a mouse model of chronic constriction injury-induced neuropathic pain. **2015**, 105, 215-21	21
926	The somatostatin receptor 4 agonist J-2156 reduces mechanosensitivity of peripheral nerve afferents and spinal neurons in an inflammatory pain model. **2015**, 746, 274-81	21
925	Role of TRP channels in the induction of heat shock proteins (Hsps) by heating skin. **2015**, 11, 25-32	8
924	Proton block of proton-activated TRPV1 current. **2015**, 146, 147-59	20
923	Directional bleb formation in spherical cells under temperature gradient. **2015**, 109, 355-64	15
922	Mechanisms of activation of nucleus accumbens neurons by cocaine via sigma-1 receptor-inositol 1,4,5-trisphosphate-transient receptor potential canonical channel pathways. **2015**, 58, 196-207	17
921	The Pore Loop Domain of TRPV1 Is Required for Its Activation by the Volatile Anesthetics Chloroform and Isoflurane. **2015**, 88, 131-8	12
920	Functional roles of TRPV1 and TRPV4 in control of lower urinary tract activity: dual analysis of behavior and reflex during the micturition cycle. **2015**, 308, F1128-34	40
919	Comparative sequence analysis suggests a conserved gating mechanism for TRP channels. **2015**, 146, 37-50	44
918	Characterization of lysophosphatidylcholine-induced changes of intracellular calcium in Drosophila S2 cells. **2015**, 131, 57-62	7
917	Increased expression of three types of transient receptor potential channels (TRPA1, TRPV4 and TRPV3) in burn scars with post-burn pruritus. **2015**, 95, 20-4	36

916	TRPs in Respiratory Disorders: Opportunities Beyond TRPA1. **2015**, 483-500	
915	A combined coarse-grained and all-atom simulation of TRPV1 channel gating and heat activation. **2015**, 145, 443-56	28
914	The roles of thermal transient receptor potential channels in thermotactic behavior and in thermal acclimation in the red flour beetle, Tribolium castaneum. **2015**, 76, 47-55	24
913	SOCE in neurons: Signaling or just refilling?. **2015**, 1853, 1940-52	69
912	Functional and physiopathological implications of TRP channels. **2015**, 1853, 1772-82	59
911	Nicotinic acid is a common regulator of heat-sensing TRPV1-4 ion channels. **2015**, 5, 8906	17
910	In vivo patch-clamp analysis of the antinociceptive actions of TRPA1 activation in the spinal dorsal horn. **2015**, 11, 20	10
909	Temperature oscillations drive cycles in the activity of MMP-2,9 secreted by a human trabecular meshwork cell line. **2015**, 56, 1396-405	3
908	Capsaicin interaction with TRPV1 channels in a lipid bilayer: molecular dynamics simulation. **2015**, 108, 1425-1434	63
907	Regulation of TRP channels by steroids: Implications in physiology and diseases. **2015**, 220, 23-32	20
906	Evidence of a Role for Fibroblast Transient Receptor Potential Canonical 3 Ca2+ Channel in Renal Fibrosis. **2015**, 26, 1855-76	41
905	TRP channels interaction with lipids and its implications in disease. **2015**, 1848, 1818-27	42
904	Functional expression of transient receptor potential channels in human endometrial stromal cells during the luteal phase of the menstrual cycle. **2015**, 30, 1421-36	29
903	Broad-range TRP channel inhibitors (2-APB, flufenamic acid, SKF-96365) affect differently contraction of resistance and conduit femoral arteries of rat. **2015**, 765, 533-40	15
902	Store-Operated Calcium Channels. **2015**, 95, 1383-436	684
901	Inervaci□ cut□ea. **2015**, 36, 1-7	
900	Suppression of TRPM7 inhibits proliferation, migration, and invasion of malignant human glioma cells. **2015**, 21, 252-61	37
899	Trans-activation of TRPV1 by D1R in mouse dorsal root ganglion neurons. **2015**, 465, 832-7	7

898	TRP Channels in the Sensation of Heat. **2015**, 165-183	
897	Innervazione cutanea. **2015**, 22, 1-6	
896	Functional and Modeling Studies of the Transmembrane Region of the TRPM8 Channel. **2015**, 109, 1840-51	13
895	Innovative Medicine. **2015**,	7
894	TRPC6 specifically interacts with APP to inhibit its cleavage by -secretase and reduce A production. **2015**, 6, 8876	49
893	Role of TRP channels in the cardiovascular system. **2015**, 308, H157-82	120
892	TRPM7 promotes the metastatic process in human nasopharyngeal carcinoma. **2015**, 356, 483-90	21
891	What is sensitive skin? A systematic literature review of objective measurements. **2015**, 28, 75-83	58
890	Novel insights into TRPM7 function in fibrotic diseases: a potential therapeutic target. **2015**, 230, 1163-9	13
889	Brief reports: TRPM7 Senses mechanical stimulation inducing osteogenesis in human bone marrow mesenchymal stem cells. **2015**, 33, 615-21	44
888	Distinct modes of perimembrane TRP channel turnover revealed by TIR-FRAP. **2014**, 4, 7111	12
887	TRPV4: physiological role and therapeutic potential in respiratory diseases. **2015**, 388, 421-36	42
886	The G protein-coupled receptor-transient receptor potential channel axis: molecular insights for targeting disorders of sensation and inflammation. **2015**, 67, 36-73	100
885	Learning from nature: binary cooperative complementary nanomaterials. **2015**, 11, 1072-96	79
884	Intestinal Fibroblast/Myofibroblast TRP Channels in Inflammatory Bowel Disease. **2016**,	
883	Kunitz-Type Peptide HCRG21 from the Sea Anemone Heteractis crispa Is a Full Antagonist of the TRPV1 Receptor. **2016**, 14,	34
882	Molecular Pharmacology of ´Chemesthesis. **2016**, 375-391	3
881	Effect of TRPV4-p38 MAPK Pathway on Neuropathic Pain in Rats with Chronic Compression of the Dorsal Root Ganglion. **2016**, 2016, 6978923	27

880	Targeting TRPM2 Channels Impairs Radiation-Induced Cell Cycle Arrest and Fosters Cell Death of T Cell Leukemia Cells in a Bcl-2-Dependent Manner. **2016**, 2016, 8026702	37
879	TRPV1: A Target for Rational Drug Design. **2016**, 9,	63
878	Cholinergic Signaling and Muscle Contraction. **2016**, 263-327	2
877	Definition of two agonist types at the mammalian cold-activated channel TRPM8. **2016**, 5,	15
876	Ling's Adsorption Theory as a Mechanism of Membrane Potential Generation Observed in Both Living and Nonliving Systems. **2016**, 6,	3
875	The Effect of Capsaicin on Salivary Gland Dysfunction. **2016**, 21,	11
874	TRPV1 and TRPM8 in Treatment of Chronic Cough. **2016**, 9,	17
873	Targeting TRPM2 in ROS-Coupled Diseases. **2016**, 9,	19
872	Nociceptive TRP Channels: Sensory Detectors and Transducers in Multiple Pain Pathologies. **2016**, 9,	71
871	Structural and Functional Interactions between Transient Receptor Potential Vanilloid Subfamily 1 and Botulinum Neurotoxin Serotype A. **2016**, 11, e0143024	12
870	Different Contribution of Redox-Sensitive Transient Receptor Potential Channels to Acetaminophen-Induced Death of Human Hepatoma Cell Line. **2016**, 7, 19	14
869	Cutaneous Vasodilation during Local Heating: Role of Local Cutaneous Thermosensation. **2016**, 7, 622	7
868	Contemporary views on inflammatory pain mechanisms: TRPing over innate and microglial pathways. **2016**, 5,	15
867	Inhibition of platelet aggregation by vanilloid-like agents is not mediated by transient receptor potential vanilloid-1 channels or cannabinoid receptors. **2016**, 43, 606-11	1
866	Non-neuronal Cells in ALS: Role of Glial, Immune cells and Blood-CNS Barriers. **2016**, 26, 248-57	57
865	Constant change: dynamic regulation of membrane transport by calcium signalling networks keeps plants in tune with their environment. **2016**, 39, 467-81	13
864	TRPM7 channel regulates ox-LDL-induced proliferation and migration of vascular smooth muscle cells via MEK-ERK pathways. **2016**, 590, 520-32	27
863	Clinical, biophysical, immunohistochemical, and in vivo reflectance confocal microscopy evaluation of the response of subjects with sensitive skin to home-use fractional non-ablative photothermolysis device. **2016**, 48, 474-82	5

862	Effects of ginger and its pungent constituents on transient receptor potential channels. **2016**, 38, 1905-1914	13
861	TRPC6 channel activation promotes neonatal glomerular mesangial cell apoptosis via calcineurin/NFAT and FasL/Fas signaling pathways. **2016**, 6, 29041	29
860	Genetic and pharmacological evidence for low-abundance TRPV3 expression in primary vagal afferent neurons. **2016**, 310, R794-805	6
859	Curcumin inhibits oxidative stress-induced TRPM2 channel activation, calcium ion entry and apoptosis values in SH-SY5Y neuroblastoma cells: Involvement of transfection procedure. **2016**, 33, 76-88	29
858	Ca2+ controls gating of voltage-gated calcium channels by releasing the □2e subunit from the plasma membrane. **2016**, 9, ra67	8
857	Effects of N-Glycosylation of the human cation channel TRPA1 on agonist-sensitivity. **2016**, 36,	10
856	A polycystin-type transient receptor potential (Trp) channel that is activated by ATP. **2017**, 6, 200-209	9
855	Activation of Cold-Sensitive Channels TRPM8 and TRPA1 Inhibits the Proliferative Airway Smooth Muscle Cell Phenotype. **2016**, 194, 595-603	18
854	Natural-Product-Derived Transient Receptor Potential Melastatin 8 (TRPM8) Channel Modulators. **2016**, 18, 2746-9	10
853	Upregulation of TRPM7 augments cell proliferation and interleukin-8 release in airway smooth muscle cells of rats exposed to cigarette smoke. **2016**, 13, 4995-5004	6
852	Functional and Structural Divergence in Human TRPV1 Channel Subunits by Oxidative Cysteine Modification. **2016**, 291, 4197-210	38
851	Role of transient receptor potential melastatin type 7 channel in gastric cancer. **2016**, 5, 124-130	8
850	A latent serotonin-1A receptor-gated spinal afferent pathway inhibiting breathing. **2016**, 221, 4159-4168	
849	Pain transduction: a pharmacologic perspective. **2016**, 9, 1069-80	17
848	Toward elucidating the heat activation mechanism of the TRPV1 channel gating by molecular dynamics simulation. **2016**, 84, 1938-1949	16
847	Endoglin selectively modulates transient receptor potential channel expression in left and right heart failure. **2016**, 25, 478-482	29
846	Cholinergic and glutamatergic transmission at synapses between pedunculopotine tegmental nucleus axonal terminals and A7 catecholamine cell group noradrenergic neurons in the rat. **2016**, 110, 237-250	0
845	Glutathione depletion activates the yeast vacuolar transient receptor potential channel, Yvc1p, by reversible glutathionylation of specific cysteines. **2016**, 27, 3913-3925	13

844	TRPA5, an Ankyrin Subfamily Insect TRP Channel, is Expressed in Antennae of Cydia pomonella (Lepidoptera: Tortricidae) in Multiple Splice Variants. **2016**, 16,	6
843	What is the evidence for the role of TRP channels in inflammatory and immune cells?. **2016**, 173, 953-69	85
842	Functional TRPV2 and TRPV4 channels in human cardiac c-kit(+) progenitor cells. **2016**, 20, 1118-27	16
841	Sensory Signal Processing; Visual Transduction and Olfaction. **2016**, 329-379	
840	Oxidant Sensing by TRPM2 Inhibits Neutrophil Migration and Mitigates Inflammation. **2016**, 38, 453-62	34
839	Quantifying pulsed electric field-induced membrane nanoporation in single cells. **2016**, 1858, 2795-2803	11
838	TRPV4 ion channel as important cell sensors. **2016**, 30, 1014-1019	21
837	Resistance to pathologic cardiac hypertrophy and reduced expression of CaV1.2 in Trpc3-depleted mice. **2016**, 421, 55-65	10
836	Glucose and GTP-binding protein-coupled receptor cooperatively regulate transient receptor potential-channels to stimulate insulin secretion [Review]. **2016**, 63, 867-876	6
835	Nav1.7-A1632G Mutation from a Family with Inherited Erythromelalgia: Enhanced Firing of Dorsal Root Ganglia Neurons Evoked by Thermal Stimuli. **2016**, 36, 7511-22	43
834	Mitsugumin 53 regulates extracellular Ca entry and intracellular Ca release via Orai1 and RyR1 in skeletal muscle. **2016**, 6, 36909	17
833	Facilitation of TRPV4 by TRPV1 is required for itch transmission in some sensory neuron populations. **2016**, 9, ra71	53
832	TRPV-1-mediated elimination of residual iPS cells in bioengineered cardiac cell sheet tissues. **2016**, 6, 21747	29
831	Heterologously-expressed and Liposome-reconstituted Human Transient Receptor Potential Melastatin 4 Channel (TRPM4) is a Functional Tetramer. **2016**, 6, 19352	18
830	Adhesion GPCRs as a Putative Class of Metabotropic Mechanosensors. **2016**, 234, 221-247	34
829	Adhesion G Protein-coupled Receptors. **2016**,	7
828	Significance of TRP channels in oxidative stress. **2016**, 793, 109-111	23
827	TRPV4 Regulates Breast Cancer Cell Extravasation, Stiffness and Actin Cortex. **2016**, 6, 27903	75

826	Osthole inhibits histamine-dependent itch via modulating TRPV1 activity. **2016**, 6, 25657	18
825	Neuronal TRPV1 activation regulates alveolar bone resorption by suppressing osteoclastogenesis via CGRP. **2016**, 6, 29294	32
824	Spatial temperature gradients guide axonal outgrowth. **2016**, 6, 29876	11
823	The temperature effect on cardiac ryanodine receptor gating and conductance: Mathematical modeling. **2016**, 61, 614-621	4
822	Temperature-sensitive gating of TRPV1 channel as probed by atomistic simulations of its trans- and juxtamembrane domains. **2016**, 6, 33112	35
821	Regulation of TRPP3 Channel Function by N-terminal Domain Palmitoylation and Phosphorylation. **2016**, 291, 25678-25691	9
820	Niflumic acid, a TRPV1 channel modulator, ameliorates stavudine-induced neuropathic pain. **2016**, 24, 319-334	10
819	Significant contribution of TRPC6 channel-mediated Ca influx to the pathogenesis of Crohn's disease fibrotic stenosis. **2016**, 52, 78-92	6
818	Calcium influx through TRP channels induced by short-lived reactive species in plasma-irradiated solution. **2016**, 6, 25728	32
817	A molecular determinant of phosphoinositide affinity in mammalian TRPV channels. **2016**, 6, 27652	17
816	The mechanosensor of mesenchymal stem cells: mechanosensitive channel or cytoskeleton?. **2016**, 7, 140	14
815	TRP channels: potential drug target for neuropathic pain. **2016**, 24, 305-317	44
814	Neuronal differentiation in the developing human spinal ganglia. **2016**, 299, 1060-72	3
813	Distinct Functional Groups Emerge from the Intrinsic Properties of Molecularly Identified Entorhinal Interneurons and Principal Cells. **2017**, 27, 3186-3207	20
812	Gating mechanism of mechanosensitive channel of large conductance: a coupled continuum mechanical-continuum solvation approach. **2016**, 15, 1557-1576	10
811	Transient Receptor Potential Channels in Microglia: Roles in Physiology and Disease. **2016**, 30, 467-78	19
810	Calcium-permeable ion channels in the kidney. **2016**, 310, F1157-67	16
809	Novel identification and characterisation of Transient receptor potential melastatin 3 ion channels on Natural Killer cells and B lymphocytes: effects on cell signalling in Chronic fatigue syndrome/Myalgic encephalomyelitis patients. **2016**, 49, 27	29

808	Blocking of TRPV-1 in the parodontium relieves orthodontic pain by inhibiting the expression of TRPV-1 in the trigeminal ganglion during experimental tooth movement in rats. **2016**, 628, 67-72		14
807	Crystal structure of the epithelial calcium channel TRPV6. *Nature*, **2016**, 534, 506-11	50.4	161
806	Effect of cannabinoids on CGRP release in the isolated rat lumbar spinal cord. **2016**, 614, 39-42		5
805	Screening of Transient Receptor Potential Canonical Channel Activators Identifies Novel Neurotrophic Piperazine Compounds. **2016**, 89, 348-63		13
804	TRPV1 receptors augment basal synaptic transmission in CA1 and CA3 pyramidal neurons in epilepsy. **2016**, 314, 170-8		20
803	Beyond ion-conduction: Channel-dependent and -independent roles of TRP channels during development and tissue homeostasis. **2016**, 1863, 1436-46		21
802	Expression and function of transient receptor potential channels in the female bovine reproductive tract. **2016**, 86, 551-61		6
801	Chemical Activation of Sensory TRP Channels. **2016**, 73-113		6
800	Stress hormone potentiates Zn(2+)-induced neurotoxicity via TRPM7 channel in dopaminergic neuron. **2016**, 470, 362-367		10
799	Electrophysiological effects of natriuretic peptides in the heart are mediated by multiple receptor subtypes. **2016**, 120, 37-49		26
798	Sensing of redox status by TRP channels. **2016**, 60, 115-22		61
797	Quantitation of Gingerols in Human Plasma by Newly Developed Stable Isotope Dilution Assays and Assessment of Their Immunomodulatory Potential. **2016**, 64, 2269-79		12
796	TRPing on the pore phenomenon: what do we know about transient receptor potential ion channel-related pore dilation up to now?. **2016**, 48, 1-12		22
795	Phosphoinositide signaling in somatosensory neurons. **2016**, 61, 2-16		14
794	Fatigue sensation and gene expression in trained cyclists following a 40 ́km time trial in the heat. **2016**, 116, 541-52		5
793	Tris-hydroxymethyl-aminomethane enhances capsaicin-induced intracellular Ca(2+) influx through transient receptor potential V1 (TRPV1) channels. **2016**, 130, 72-7		6
792	Calcium, TRPC channels, and regulation of the actin cytoskeleton in podocytes: towards a future of targeted therapies. **2016**, 31, 1047-54		28
791	TRPs and pain. **2016**, 38, 277-91		87

790	Beyond neurovascular coupling, role of astrocytes in the regulation of vascular tone. **2016**, 323, 96-109	124
789	Transient Receptor Potential-canonical 1 is Essential for Environmental Enrichment-Induced Cognitive Enhancement and Neurogenesis. **2017**, 54, 1992-2002	14
788	Positive selection acted on the extracellular transmembrane linkers of heat receptors during evolution. **2017**, 64, 86-91	1
787	Micrometer-Scale Ion Current Rectification at Polyelectrolyte Brush-Modified Micropipets. **2017**, 139, 1396-1399	74
786	Single-residue molecular switch for high-temperature dependence of vanilloid receptor TRPV3. **2017**, 114, 1589-1594	28
785	Full-Spectral Multiplexing of Bioluminescence Resonance Energy Transfer in Three TRPV Channels. **2017**, 112, 87-98	11
784	Membrane ion Channels and Receptors in Animal lifespan Modulation. **2017**, 232, 2946-2956	3
783	Ingestion of transient receptor potential channel agonists attenuates exercise-induced muscle cramps. **2017**, 56, 379-385	11
782	Biological effects and medical applications of infrared radiation. **2017**, 170, 197-207	155
781	Lipids as central modulators of sensory TRP channels. **2017**, 1859, 1615-1628	32
780	AstragalosideIV against cardiac fibrosis by inhibiting TRPM7 channel. **2017**, 30, 10-17	17
779	Transient receptor potential vanilloid 2 function regulates cardiac hypertrophy via stretch-induced activation. **2017**, 35, 602-611	17
778	TRP channels in calcium homeostasis: from hormonal control to structure-function relationship of TRPV5 and TRPV6. **2017**, 1864, 883-893	43
777	Versatile Roles of Intracellularly Located TRPV1 Channel. **2017**, 232, 1957-1965	36
776	Molecular characterization and expression analysis of olive flounder (Paralichthys olivaceus) phospholipase C gamma 1 and gamma 2. **2017**, 63, 353-366	1
775	Role of TRPM7 in cerebral ischaemia and hypoxia. **2017**, 595, 3077-3083	17
774	TRP Channel Classification. **2017**, 976, 1-8	58
773	Genetic strategies to analyze primary TRP channel-expressing cells in mice. **2017**, 67, 91-104	8

772	TRPV4 mediates the Ca influx required for the interaction between flightless-1 and non-muscle myosin, and collagen remodeling. **2017**, 130, 2196-2208	24
771	Spontaneous stacking of purple membranes during immobilization with physical cross-linked poly(vinyl alcohol) hydrogel with retaining native-like functionality of bacteriorhodopsin. **2017**, 121, 204701	2
770	Hereditary Podocytopathies in Adults: The Next Generation. **2017**, 3, 50-56	10
769	Action mechanisms of Onabotulinum toxin-A: hints for selection of eligible patients. **2017**, 38, 131-140	11
768	Proteoglycans, ion channels and cell-matrix adhesion. **2017**, 474, 1965-1979	31
767	Transient receptor potential canonical 5 channels plays an essential role in hepatic dyslipidemia associated with cholestasis. **2017**, 7, 2338	5
766	HIV Tat excites D1 receptor-like expressing neurons from rat nucleus accumbens. **2017**, 178, 7-14	3
765	Localized and systemic variations in central motor drive at different local skin and muscle temperatures. **2017**, 313, R219-R228	1
764	Pharmacological screening technologies for venom peptide discovery. **2017**, 127, 4-19	24
763	Smooth Muscle Ion Channels and Regulation of Vascular Tone in Resistance Arteries and Arterioles. **2017**, 7, 485-581	138
762	Transient receptor potential canonical 5 (TRPC5) protects against pain and vascular inflammation in arthritis and joint inflammation. **2017**, 76, 252-260	31
761	The Phosphorylation State of the TRP Channel Modulates the Frequency Response to Oscillating Light. **2017**, 37, 4213-4224	6
760	Age-dependent alpha-synuclein accumulation is correlated with elevation of mitochondrial TRPC3 in the brains of monkeys and mice. **2017**, 124, 441-453	8
759	Taste and Smell. **2017**,	1
758	Visceral Sensitivity. **2017**, 39-52	2
757	H2O2-Sensitive Isoforms of Drosophila melanogaster TRPA1 Act in Bitter-Sensing Gustatory Neurons to Promote Avoidance of UV During Egg-Laying. **2017**, 205, 749-759	18
756	The Role of Transient Receptor Potential Cation Channel, Subfamily C, Member 1 in the Odontoblast-like Differentiation of Human Dental Pulp Cells. **2017**, 43, 315-320	5
755	Transient receptor potential vanilloid 6 (TRPV6) in the mouse brain: Distribution and estrous cycle-related changes in the hypothalamus. **2017**, 344, 204-216	15

754	Highway to thermosensation: a traced review, from the proteins to the brain. **2017**, 28, 45-57		5
753	Synthesis and optimization of novel □phenylglycinamides as selective TRPM8 antagonists. **2017**, 25, 727-742		11
752	Ascospore release in apple scab underlies infrared sensation. **2017**, 121, 1054-1062		3
751	TRPC6 expression in neurons is differentially regulated by NR2A- and NR2B-containing NMDA receptors. **2017**, 143, 282-293		7
750	TRPC3 Is Dispensable for □-Alanine Triggered Acute Itch. **2017**, 7, 13869		7
749	Neural evidence supports a dual sensory-motor role for insect wings. **2017**, 284,		25
748	Stimulation of 3D osteogenesis by mesenchymal stem cells using a nanovibrational bioreactor. **2017**, 1, 758-770		58
747	TRPM7 is overexpressed in bladder cancer and promotes proliferation, migration, invasion and tumor growth. **2017**, 38, 1967-1976		22
746	Cryo-EM structures of the mammalian endo-lysosomal TRPML1 channel elucidate the combined regulation mechanism. **2017**, 8, 834-847		35
745	Presumptive TRP channel CED-11 promotes cell volume decrease and facilitates degradation of apoptotic cells in. **2017**, 114, 8806-8811		3
744	The emerging role of transient receptor potential channels in chronic lung disease. **2017**, 50,		34
743	Electron cryo-microscopy structure of a human TRPM4 channel. *Nature*, **2017**, 552, 200-204	50.4	104
742	Therapeutic Effects of FK506 on IgA Nephropathy Rat. **2017**, 42, 983-998		3
741	Increased glomerular filtration rate and impaired contractile function of mesangial cells in TRPC6 knockout mice. **2017**, 7, 4145		12
740	Role of TRPC3 and TRPC6 channels in the myocardial response to stretch: Linking physiology and pathophysiology. **2017**, 130, 264-272		28
739	Cough and airway disease: The role of ion channels. **2017**, 47, 21-28		58
738	The transient receptor potential ankyrin-1 mediates mechanical hyperalgesia induced by the activation of B receptor in mice. **2017**, 125, 75-83		13
737	Emerging roles of calcium-activated K channels and TRPV4 channels in lung oedema and pulmonary circulatory collapse. **2017**, 219, 176-187		17

736	Localization and expression patterns of TRP channels in submandibular gland development. **2017**, 74, 46-50	5
735	The crucial role of the TRPM7 kinase domain in the early stage of amelogenesis. **2017**, 7, 18099	10
734	Rosiglitazone Inhibits Angiotensin II-Induced Proliferation of Glomerular Mesangial Cells via the Gq/Plc4/TRPC Signaling Pathway. **2017**, 44, 2228-2242	5
733	A focus on extracellular Ca entry into skeletal muscle. **2017**, 49, e378	25
732	Urotensin II-induced store-operated Ca entry contributes to glomerular mesangial cell proliferation and extracellular matrix protein production under high glucose conditions. **2017**, 7, 18049	13
731	Proceedings of the 63rd Congress of the Italian Embryological Group (GEI). **2017**, 61, 1	
730	Capsicum: A Natural Pain Modulator. **2017**, 107-119	2
729	TRPs in Pain Sensation. **2017**, 8, 392	76
728	Dietary Capsaicin Improves Glucose Homeostasis and Alters the Gut Microbiota in Obese Diabetic ob/ob Mice. **2017**, 8, 602	74
727	Role of the Kidney in Calcium and Phosphorus Homeostasis. **2017**, 1024-1034.e4	
726	Mapping Sensory Spots for Moderate Temperatures on the Back of Hand. **2017**, 17,	3
725	Dorsal Root Ganglia Mitochondrial Biochemical Changes in Non-diabetic and Streptozotocin-Induced Diabetic Mice Fed with a Standard or High-Fat Diet. **2017**, 8,	2
724	The Role of Transient Receptor Potential Channel 6 Channels in the Pulmonary Vasculature. **2017**, 8, 707	29
723	Multiple Mechanisms of Regulation of Transient Receptor Potential Ion Channels by Cholesterol. **2017**, 80, 139-161	19
722	Corneal Nerve Fiber Structure, Its Role in Corneal Function, and Its Changes in Corneal Diseases. **2017**, 2017, 3242649	19
721	3-Iodothyronamine, a Novel Endogenous Modulator of Transient Receptor Potential Melastatin 8?. **2017**, 8, 198	18
720	Next-generation sequencing of the human TRPV1 gene and the regulating co-players LTB4R and LTB4R2 based on a custom AmpliSeq panel. **2017**, 12, e0180116	4
719	Airway expression of Transient Receptor Potential (TRP) Vanniloid-1 and Ankyrin-1 channels is not increased in patients with Idiopathic Pulmonary Fibrosis. **2017**, 12, e0187847	2

718	TRPV1 Channels in Immune Cells and Hematological Malignancies. **2017**, 79, 173-198	22
717	TRP channels in oxygen physiology: distinctive functional properties and roles of TRPA1 in O sensing. **2017**, 93, 464-482	13
716	Store-operated Ca2+ entry supports contractile function in hearts of hibernators. **2017**, 12, e0177469	17
715	Targeting Transient Receptor Potential Channels in Cardiometabolic Diseases and Myocardial Ischemia Reperfusion Injury. **2017**, 18, 1733-1745	7
714	Chirality-Dependent Interaction of d- and l-Menthol with Biomembrane Models. **2017**, 7,	5
713	The oral mucosal membrane and transient receptor potential channels. **2017**, 59, 189-193	4
712	Expression of heat shock protein 70 and cell death kinetics after different thermal impacts on cultured retinal pigment epithelial cells. **2018**, 170, 117-126	14
711	Hippocampus and Hypothalamus RNA-sequencing of WFS1-deficient Mice. **2018**, 374, 91-103	5
710	Cryo-EM and X-ray structures of TRPV4 reveal insight into ion permeation and gating mechanisms. **2018**, 25, 252-260	117
709	Tetrahydroisoquinolines. **2018**, 356-413	1
708	Transient receptor potential vanilloid 4 (TRPV4) expression on the nerve fibers of human dental pulp is upregulated under inflammatory condition. **2018**, 89, 94-98	14
707	Ion Channels in Cancer. **2018**, 293-354	
706	Transient receptor potential polymorphism and haplotype associate with crisis pain in sickle cell disease. **2018**, 19, 401-411	15
705	Inhibition of transient receptor potential melastatin 8 alleviates airway inflammation and remodeling in a murine model of asthma with cold air stimulus. **2018**, 50, 499-506	10
704	Effects of Menthol-Containing Artificial Tears on Tear Stimulation and Ocular Surface Integrity in Normal and Dry Eye Rat Models. **2018**, 43, 580-587	6
703	Thermal actuation in TRPV1: Role of embedded lipids and intracellular domains. **2018**, 444, 38-49	10
702	Encyclopedia of Signaling Molecules. **2018**, 5372-5372	
701	Encyclopedia of Signaling Molecules. **2018**, 5566-5566	

700	Encyclopedia of Signaling Molecules. **2018**, 5762-5762	
699	Probenecid Improves Cardiac Function in Patients With Heart Failure With Reduced Ejection Fraction In Vivo and Cardiomyocyte Calcium Sensitivity In Vitro. **2018**, 7,	20
698	Encyclopedia of Signaling Molecules. **2018**, 5419-5424	
697	Roles of transient receptor potential channels in eclosion and movement in the red flour beetle Tribolium castaneum. **2018**, 43, 79-85	2
696	The neurobiology of climate change. **2018**, 105, 11	5
695	Decrypting the Heat Activation Mechanism of TRPV1 Channel by Molecular Dynamics Simulation. **2018**, 114, 40-52	18
694	TRPM4 and TRPM5 are both required for normal signaling in taste receptor cells. **2018**, 115, E772-E781	63
693	TRPV4 inhibition prevents paclitaxel-induced neurotoxicity in preclinical models. **2018**, 306, 64-75	22
692	Mammalian cold TRP channels: impact on thermoregulation and energy homeostasis. **2018**, 470, 761-777	15
691	X-ray crystallography of TRP channels. **2018**, 12, 137-152	4
690	Machine-learned analysis of the association of next-generation sequencing-based human TRPV1 and TRPA1 genotypes with the sensitivity to heat stimuli and topically applied capsaicin. **2018**, 159, 1366-1381	12
689	Arthropod toxins and their antinociceptive properties: From venoms to painkillers. **2018**, 188, 176-185	4
688	The effect of the electrophilic fatty acid nitro-oleic acid on TRP channel function in sensory neurons. **2018**,	5
687	TRPM2 and warmth sensation. **2018**, 470, 787-798	20
686	Toxins as tools: Fingerprinting neuronal pharmacology. **2018**, 679, 4-14	5
685	TRPM7 functions in non-neuronal and neuronal systems: Perspectives on its role in the adult brain. **2018**, 340, 81-86	6
684	The mouthfeel of white wine. **2018**, 58, 2939-2956	25
683	Insulin and leptin excite anorexigenic pro-opiomelanocortin neurones via activation of TRPC5 channels. **2018**, 30, e12501	29

682	Identification and characterization of hydrophobic gate residues in TRP channels. **2018**, 32, 639-653	20
681	Thermally activated TRP channels: molecular sensors for temperature detection. **2018**, 15, 021001	41
680	Muscarinic receptors in adrenal chromaffin cells: physiological role and regulation of ion channels. **2018**, 470, 29-38	9
679	Voltage-Gated Calcium Channels. **2018**, 12-24	
678	Synergic and comparative effect of 5-fluorouracil and leucoverin on breast and colon cancer cells through TRPM2 channels. **2018**, 119, 692-700	5
677	Emerging Roles of the Membrane Potential: Action Beyond the Action Potential. **2018**, 9, 1661	79
676	Structures and gating mechanism of human TRPM2. **2018**, 362,	79
675	Combination effect of allyl isothiocyanate and hoof trimming on bovine digital dermatitis. **2018**, 80, 1080-1085	3
674	Carvacrol Attenuates Hippocampal Neuronal Death after Global Cerebral Ischemia via Inhibition of Transient Receptor Potential Melastatin 7. **2018**, 7,	11
673	Neurogenic Inflammation: TRP Ion Channels in the Lung. **2018**, 302-321	1
672	Development of an AmpliSeq Panel for Next-Generation Sequencing of a Set of Genetic Predictors of Persisting Pain. **2018**, 9, 1008	2
671	Role of Chemosensory TRP Channels in Lung Cancer. **2018**, 11,	7
670	3-Iodothyronamine Activates a Set of Membrane Proteins in Murine Hypothalamic Cell Lines. **2018**, 9, 523	11
669	Polymodal TRPV1 and TRPV4 Sensors Colocalize but Do Not Functionally Interact in a Subpopulation of Mouse Retinal Ganglion Cells. **2018**, 12, 353	23
668	Coordinated targeting of cold and nicotinic receptors synergistically improves obesity and type 2 diabetes. **2018**, 9, 4304	26
667	Organellar TRP channels. **2018**, 25, 1009-1018	27
666	Doktorandenpreis 2018. **2018**, 72, 551-554	0
665	TRPV2-induced Ca-calcineurin-NFAT signaling regulates differentiation of osteoclast in multiple myeloma. **2018**, 16, 68	22

664	Membrane protein structural biology in the era of single particle cryo-EM. **2018**, 52, 58-63	74
663	Mechanisms of Osteoarthritis (OA) Pain. **2018**, 16, 611-616	84
662	Single-particle cryo-EM-How did it get here and where will it go. **2018**, 361, 876-880	166
661	TRP Ion Channels: From Distribution to Assembly. **2018**,	1
660	The Electrochemical Basis of Nerve Function. **2018**, 34-53.e1	
659	Expression of TRPC5 is decreased in the sperm of patients with varicocele-associated asthenozoospermia. **2018**, 8, 529-534	2
658	Calcium, Sodium, and Transient Receptor Potential Channel Expression in Human Fetal Midbrain-Derived Neural Progenitor Cells. **2018**, 27, 976-984	4
657	Cancer Cells Co-opt the Neuronal Redox-Sensing Channel TRPA1 to Promote Oxidative-Stress Tolerance. **2018**, 33, 985-1003.e7	113
656	Molecular and Cellular Biology of the Right Heart. **2018**, 57-89	1
655	Molecular Mechanisms of Intestinal Transport of Calcium, Phosphate, and Magnesium. **2018**, 1405-1449	5
654	Bactridine 2 effect in DRG neurons. Identification of NHE as a second target. **2018**, 151, 37-46	
653	Structure of the mouse TRPC4 ion channel. **2018**, 9, 3102	76
652	Hyperosmotic Stress-Induced TRPM2 Channel Activation Stimulates NLRP3 Inflammasome Activity in Primary Human Corneal Epithelial Cells. **2018**, 59, 3259-3268	16
651	TRPM2 in the Brain: Role in Health and Disease. **2018**, 7,	24
650	A Closely Associated Phospholipase C Regulates Cation Channel Function through Phosphoinositide Hydrolysis. **2018**, 38, 7622-7634	5
649	Ion Channels in the Paraventricular Hypothalamic Nucleus (PVN); Emerging Diversity and Functional Roles. **2018**, 9, 760	8
648	"Immuno-Transient Receptor Potential Ion Channels": The Role in Monocyte- and Macrophage-Mediated Inflammatory Responses. **2018**, 9, 1273	32
647	Remarkable Progress with Small-Molecule Modulation of TRPC1/4/5 Channels: Implications for Understanding the Channels in Health and Disease. **2018**, 7,	29

646	Gold nanorods-based thermosensitive hydrogel produces selective long-lasting regional anesthesia triggered by photothermal activation of Transient Receptor Potential Vanilloid Type-1 channels. **2018**, 171, 17-23	4
645	TRPM Family Channels in Cancer. **2018**, 11,	51
644	TRPV1 Blocking Alleviates Airway Inflammation and Remodeling in a Chronic Asthma Murine Model. **2018**, 10, 216-224	37
643	The TRPM2 channel nexus from oxidative damage to Alzheimer's pathologies: An emerging novel intervention target for age-related dementia. **2018**, 47, 67-79	25
642	Ethanol's Effects on Transient Receptor Potential Channel Expression in Brain Microvascular Endothelial Cells. **2018**, 13, 498-508	6
641	Modulation of the Oxidative Stress and Lipid Peroxidation by Endocannabinoids and Their Lipid Analogues. **2018**, 7,	40
640	The Bioelectric Code: Reprogramming Cancer and Aging From the Interface of Mechanical and Chemical Microenvironments. **2018**, 6, 21	21
639	Cryo-EM structure of the cytoplasmic domain of murine transient receptor potential cation channel subfamily C member 6 (TRPC6). **2018**, 293, 10381-10391	25
638	Structure of the mammalian TRPM7, a magnesium channel required during embryonic development. **2018**, 115, E8201-E8210	63
637	The endocannabinoid system of the skin. A potential approach for the treatment of skin disorders. **2018**, 157, 122-133	38
636	Structure and gating mechanism of the transient receptor potential channel TRPV3. **2018**, 25, 805-813	98
635	TRP Channels as Potential Targets for Sex-Related Differences in Migraine Pain. **2018**, 5, 73	23
634	TRPs in Tox: Involvement of Transient Receptor Potential-Channels in Chemical-Induced Organ Toxicity-A Structured Review. **2018**, 7,	21
633	TRPCing around the hypothalamus. **2018**, 51, 116-124	8
632	Thermodynamic limitations on the temperature sensitivity of cell-membrane ion channels: Trouble with enthalpy uncertainty. **2018**, 123, 224701	2
631	Regulation of Cell Membrane Transport by Plasma. **2019**, 173-247	
630	Impairment of Bitter Taste Sensor Transient Receptor Potential Channel M5-Mediated Aversion Aggravates High-Salt Intake and Hypertension. **2019**, 74, 1021-1032	10
629	A Cell-Penetrating Scorpion Toxin Enables Mode-Specific Modulation of TRPA1 and Pain. **2019**, 178, 1362-1374.e16	41

628	Internal Friction as a Possible Key Factor Governing the Thermosensitivity of TRP Channels. **2019**, 110, 231-236	
627	Targeting TRP Channels - Valuable Alternatives to Combat Pain, Lower Urinary Tract Disorders, and Type 2 Diabetes?. **2019**, 40, 669-683	11
626	Capsaicin: Physicochemical properties, cutaneous reactions and potential applications in painful and inflammatory conditions. **2019**, 18, 916-925	28
625	Transient Receptor Potential Channel Expression Signatures in Tumor-Derived Endothelial Cells: Functional Roles in Prostate Cancer Angiogenesis. **2019**, 11,	15
624	De novo substitutions of TRPM3 cause intellectual disability and epilepsy. **2019**, 27, 1611-1618	22
623	Skin TRPA1 ion channel participates in thermoregulatory response to cold. Comparison with the effect of TRPM8. **2019**, 84, 208-213	3
622	Cryo-EM structure of TRPC5 at 2.8-□resolution reveals unique and conserved structural elements essential for channel function. **2019**, 5, eaaw7935	42
621	Suppressive Effects of Cooling Compounds Icilin on Penicillin G-Induced Epileptiform Discharges in Anesthetized Rats. **2019**, 10, 652	2
620	Therapeutic Targets for the Treatment of Chronic Cough. **2019**, 7, 116-128	8
619	Contribution of Coiled-Coil Assembly to Ca/Calmodulin-Dependent Inactivation of TRPC6 Channel and its Impacts on FSGS-Associated Phenotypes. **2019**, 30, 1587-1603	12
618	Combustible Cigarette and Smokeless Tobacco Product Preparations Differentially Regulate Intracellular Calcium Mobilization in HL60 Cells. **2019**, 42, 1641-1651	1
617	Potent, selective, and subunit-dependent activation of TRPC5 channels by a xanthine derivative. **2019**, 176, 3924-3938	16
616	TRPM6 N-Terminal CaM- and S100A1-Binding Domains. **2019**, 20,	5
615	A TR(i)P to Cell Migration: New Roles of TRP Channels in Mechanotransduction and Cancer. **2019**, 10, 757	40
614	Confined Dynamics of Water in Transmembrane Pore of TRPV1 Ion Channel. **2019**, 20,	0
613	Differential modulation of transendothelial electrical resistance by TRPV4 agonists is mediated by apoptosis and/or necrosis. **2019**, 20, 100672	1
612	Neuropsychiatric implications of transient receptor potential vanilloid (TRPV) channels in the reward system. **2019**, 131, 104545	2
611	Autophagy is involved in allergic rhinitis by inducing airway remodeling. **2019**, 9, 1346-1351	9

610	Structural biology of thermoTRPV channels. **2019**, 84, 102106	15
609	The Pivotal Role of TRP Channels in Homeostasis and Diseases throughout the Gastrointestinal Tract. **2019**, 20,	13
608	AMPK activity is required for the induction of anhydrobiosis in a tardigrade Hypsibius exemplaris, and its potential up-regulator is PP2A. **2019**, 24, 768-780	5
607	TRPML1 Promotes Protein Homeostasis in Melanoma Cells by Negatively Regulating MAPK and mTORC1 Signaling. **2019**, 28, 2293-2305.e9	20
606	Reversible Photocontrolled Nanopore Assembly. **2019**, 141, 14356-14363	22
605	TRPM2 channel regulates cytokines production in astrocytes and aggravates brain disorder during lipopolysaccharide-induced endotoxin sepsis. **2019**, 75, 105836	12
604	Mechanical stimulation activates eggs via Trpm channels. **2019**, 116, 18757-18758	2
603	A Pungent and Painful Toxin. **2019**, 178, 1279-1281	2
602	Molecular control limiting sensitivity of sweet taste neurons in. **2019**, 116, 20158-20168	9
601	Sub-chronic exposure to Tris(1,3-dichloro-2-propyl) phosphate induces sex-dependent hepatotoxicity in rats. **2019**, 26, 33351-33362	3
600	Ca Signaling in Cardiac Fibroblasts and Fibrosis-Associated Heart Diseases. **2019**, 6,	22
599	Euphorbia bicolor () Latex Phytochemicals Induce Long-Lasting Non-Opioid Peripheral Analgesia in a Rat Model of Inflammatory Pain. **2019**, 10, 958	7
598	The Role of Bioactive Lipids in Cancer, Inflammation and Related Diseases. **2019**,	3
597	Transient receptor potential melastatin 2-mediated heme oxygenase-1 has a role for bacterial clearance by regulating autophagy in peritoneal macrophages during polymicrobial sepsis. **2019**, 25, 530-538	2
596	Transient receptor potential channels in cardiac health and disease. **2019**, 16, 344-360	42
595	Exacerbating effects of trimellitic anhydride in ovalbumin-induced asthmatic mice and the gene and protein expressions of TRPA1, TRPV1, TRPV2 in lung tissue. **2019**, 69, 159-168	12
594	Treasure troves of pharmacological tools to study transient receptor potential canonical 1/4/5 channels. **2019**, 176, 832-846	22
593	Expression and localization of transient receptor potential channels in the bovine uterus epithelium throughout the estrous cycle. **2019**, 46, 4077-4084	1

592	Transcriptome-Based Analysis Reveals a Crucial Role of in Low Temperature Response of Pine Wood Nematode (). **2019**, 20,	5
591	Activation of Ca1.2 and BK is involved in the downregulation of caffeine-induced contraction in mice mesenteric arteries. **2019**, 231, 116555	2
590	Lipid metabolism and Calcium signaling in epithelial ovarian cancer. **2019**, 81, 38-50	23
589	Mechanism of TRPM2 channel gating revealed by cryo-EM. **2019**, 286, 3333-3339	9
588	Focus on TRP channels in cystic fibrosis. **2019**, 81, 29-37	7
587	Sub-lethal concentrations of Perilla frutescens essential oils affect phytopathogenic fungal biofilms. **2019**, 245, 264-272	5
586	Pharmacological Activation of Thermo-Transient Receptor Potential Vanilloid 3 Channels Inhibits Hair Growth by Inducing Cell Death of Hair Follicle Outer Root Sheath. **2019**, 370, 299-307	4
585	CDK5 inhibits the clathrin-dependent internalization of TRPV1 by phosphorylating the clathrin adaptor protein AP2. **2019**, 12,	4
584	Transient Receptor Potential V Channels Are Essential for Glucose Sensing by Aldolase and AMPK. **2019**, 30, 508-524.e12	39
583	Genome and transcriptome analyses providing insight into the immune response of pearl oysters after allograft and xenograft transplantations. **2019**, 90, 109-117	11
582	Ion Channels and Thermosensitivity: TRP, TREK, or Both?. **2019**, 20,	32
581	TRPM7, Magnesium, and Signaling. **2019**, 20,	48
580	Transient receptor potential vanilloid 4 mediates sour taste sensing via type III taste cell differentiation. **2019**, 9, 6686	10
579	Patch-Clamp Combined with Fast Temperature Jumps to Study Thermal TRP Channels. **2019**, 1987, 125-141	2
578	TRP Channel Reconstitution in Lipid Bilayers. **2019**, 1987, 143-166	1
577	STIM1-dependent membrane insertion of heteromeric TRPC1-TRPC4 channels in response to muscarinic receptor stimulation. **2019**, 132,	5
576	TRP Channels. **2019**,	
575	Chalcone derivatives as non-canonical ligands of TRPV1. **2019**, 112, 18-23	2

574 Expression, Purification, and Crystallization of the Transient Receptor Potential Channel TRPV6. **2019**, 1987, 23-37 1

573 TRPC-mediated Ca signaling and control of cellular functions. **2019**, 94, 28-39 14

572 Transient Receptor Potential Channels and Calcium Signaling. **2019**, 11, 27

571 TRPM2 Channel in Microglia as a New Player in Neuroinflammation Associated With a Spectrum of Central Nervous System Pathologies. **2019**, 10, 239 26

570 Reduced transient receptor potential vanilloid 2 expression in alveolar macrophages causes COPD in mice through impaired phagocytic activity. **2019**, 19, 70 3

569 The structure of TRPC ion channels. **2019**, 80, 25-28 15

568 Mechanism for Regulation of Melanoma Cell Death via Activation of Thermo-TRPV4 and TRPV2. **2019**, 2019, 7362875 16

567 Photopharmacology and opto-chemogenetics of TRPC channels-some therapeutic visions. **2019**, 200, 13-26 8

566 Characterization of Lipid-Protein Interactions and Lipid-Mediated Modulation of Membrane Protein Function through Molecular Simulation. **2019**, 119, 6086-6161 80

565 Molecular Dynamics-Decorated Finite Element Method (MDeFEM): Application to the Gating Mechanism of Mechanosensitive Channels. **2019**, 77-128

564 Review of Transient Receptor Potential Canonical (TRPC5) Channel Modulators and Diseases. **2019**, 62, 7589-7602 17

563 Structure and function of polycystins: insights into polycystic kidney disease. **2019**, 15, 412-422 22

562 Trpm4 ion channels in pre-B□tzinger complex interneurons are essential for breathing motor pattern but not rhythm. **2019**, 17, e2006094 20

561 Focal Segmental Glomerulosclerosis, Pediatric. **2019**, 169-192

560 Manganese Suppresses the Haploinsufficiency of Heterozygous Cells and Stimulates the TRPY1-Dependent Release of Vacuolar Ca under H□□Stress. **2019**, 8, 3

559 Effect of TRPA1 activator allyl isothiocyanate (AITC) on rat dural and pial arteries. **2019**, 71, 565-572 9

558 Silencing of spinal Trpv1 attenuates neuropathic pain in rats by inhibiting CAMKII expression and ERK2 phosphorylation. **2019**, 9, 2769 14

557 Structural and molecular modelling studies of antimelanogenic piper-amide TRPM1 antagonists. **2019**, 30, 195-207

556	Heat activation mechanism of TRPV1: New insights from molecular dynamics simulation. **2019**, 6, 120-131	22
555	TRPV4 Is Expressed in Human Hair Follicles and Inhibits Hair Growth In Vitro. **2019**, 139, 1385-1388	14
554	The activity of transient receptor potential channel C-6 modulates the differentiation of fat cells. **2019**, 33, 6526-6538	3
553	A Novel Discovery: Holistic Efficacy at the Special Organ Level of Pungent Flavored Compounds from Pungent Traditional Chinese Medicine. **2019**, 20,	5
552	Mammalian TRP ion channels are insensitive to membrane stretch. **2019**, 132,	60
551	P.827 Have the TRP channels a role in MPP+ neurotoxicity?. **2019**, 29, S550-S551	
550	Partners in Crime: Towards New Ways of Targeting Calcium Channels. **2019**, 20,	4
549	Transient Receptor Potential Cation Channel Subfamily Vanilloid 4 and 3 in the Inner Ear Protect Hearing in Mice. **2019**, 12, 296	4
548	Trpc1 as the Missing Link Between the Bmp and Ca Signalling Pathways During Neural Specification in Amphibians. **2019**, 9, 16049	4
547	TRPM8 genetic variant is associated with chronic migraine and allodynia. **2019**, 20, 115	12
546	Hydrogen Peroxide Gates a Voltage-Dependent Cation Current in Neuroendocrine Cells. **2019**, 39, 9900-9913	2
545	Anesthesia and brain tumor surgery: technical considerations based on current research evidence. **2019**, 32, 553-562	6
544	Chemosensory Function during Neurologically Healthy Aging. **2019**, 68-94	0
543	Structural basis of temperature sensation by the TRP channel TRPV3. **2019**, 26, 994-998	44
542	To flourish or perish: evolutionary TRiPs into the sensory biology of plant-herbivore interactions. **2019**, 471, 213-236	13
541	Cellular and Molecular Mechanisms Underlying Arterial Baroreceptor Remodeling in Cardiovascular Diseases and Diabetes. **2019**, 35, 98-112	15
540	Phosphorylation of extracellular signal-regulated kinase 1/2 in subepidermal nerve fibers mediates hyperalgesia following diabetic peripheral neuropathy. **2019**, 71, 60-74	1
539	A Pharmacological Perspective on the Study of Taste. **2019**, 71, 20-48	9

538	Structures of TRPV2 in distinct conformations provide insight into role of the pore turret. **2019**, 26, 40-49	30
537	Cold- and menthol-evoked membrane potential changes in the moss Physcomitrella patens: influence of ion channel inhibitors and phytohormones. **2019**, 167, 433-446	2
536	Increasing the TRPM2 Channel Expression in Human Neuroblastoma SH-SY5Y Cells Augments the Susceptibility to ROS-Induced Cell Death. **2019**, 8,	29
535	News about non-secretory exocytosis: mechanisms, properties, and functions. **2019**, 11, 736-746	4
534	Inhibition on acid-sensing ion channels and analgesic activities of flavonoids isolated from dragon's blood resin. **2019**, 33, 718-727	7
533	TRPV4 is involved in levonorgestrel-induced reduction in oviduct ciliary beating. **2019**, 248, 77-87	8
532	TRPM8 channel inhibitor AMTB suppresses murine T-cell activation induced by T-cell receptor stimulation, concanavalin A, or external antigen re-stimulation. **2019**, 509, 918-924	13
531	New Structures and Gating of Voltage-Dependent Potassium (Kv) Channels and Their Relatives: A Multi-Domain and Dynamic Question. **2019**, 20,	18
530	Molecular cloning and characterization of TRPVs in two rice pests: Nilaparvata lugens (Stl) and Nephotettix cincticeps (Uhler). **2019**, 75, 1361-1369	6
529	The investigation of allosteric regulation mechanism of analgesic effect using SD rat taste bud tissue biosensor. **2019**, 126, 815-823	14
528	Advances in understanding of presbycusis. **2020**, 98, 1685-1697	11
527	TRPM2-AS inhibits the growth, migration, and invasion of gliomas through JNK, c-Jun, and RGS4. **2020**, 235, 4594-4604	14
526	Isolation, characterization and expression analysis of TRPV4 in half-smooth tongue sole Cynoglossus semilaevis. **2020**, 38, 294-305	3
525	Transient Receptor Potential Vanilloid 3 (TRPV3) in the Cerebellum of Rat and Its Role in Motor Coordination. **2020**, 424, 121-132	4
524	TRPM2 channel: A novel target for alleviating ischaemia-reperfusion, chronic cerebral hypo-perfusion and neonatal hypoxic-ischaemic brain damage. **2020**, 24, 4-12	15
523	Developmental studies on the acquisition of perception conducting pathways via TRP channels in rat molar odontoblasts using immunohistochemistry and RT-qPCR. **2020**, 95, 251-257	1
522	TRPC5 regulates axonal outgrowth in developing retinal ganglion cells. **2020**, 100, 297-310	7
521	Organs-on-a-chip engineering. **2020**, 47-130	2

520	An overview on transient receptor potential channels superfamily. **2020**, 31, 413-434	12
519	Calcium signaling and regulation of neutrophil functions: Still a long way to go. **2020**, 107, 285-297	18
518	Phase I/II open-label trial of intravenous allogeneic mesenchymal stromal cell therapy in adults with recessive dystrophic epidermolysis bullosa. **2020**, 83, 447-454	26
517	Sensitization of small-diameter sensory neurons is controlled by TRPV1 and TRPA1 association. **2020**, 34, 287-302	21
516	The multiscale physics of cilia and flagella. **2020**, 2, 74-88	36
515	Waixenicin A, a marine-derived TRPM7 inhibitor: a promising CNS drug lead. **2020**, 41, 1519-1524	2
514	Excitable Membrane Properties of Neurons. **2020**,	1
513	Post-Transcriptional Mechanisms Respond Rapidly to Ecologically Relevant Thermal Fluctuations During Temperature-Dependent Sex Determination. **2020**, 2, obaa033	3
512	Nanovibrational Stimulation of Mesenchymal Stem Cells Induces Therapeutic Reactive Oxygen Species and Inflammation for Three-Dimensional Bone Tissue Engineering. **2020**, 14, 10027-10044	14
511	Mechanosensitivity is an essential component of phototransduction in vertebrate rods. **2020**, 18, e3000750	9
510	TRPV4 Increases the Expression of Tight Junction Protein-Encoding Genes via XBP1 in Mammary Epithelial Cells. **2020**, 10,	4
509	Ecological Sensing Through Taste and Chemosensation Mediates Inflammation: A Biological Anthropological Approach. **2020**, 11, 1671-1685	1
508	as a Candidate Gene for Vestibular Migraine. **2020**, 11, 595042	2
507	Neuroprotective Effect of 2-Aminoethoxydiphenyl Borate (2-APB) in Amyloid □-Induced Memory Dysfunction: A Mechanistic Study. **2020**, 1	3
506	TRP Channels Regulation of Rho GTPases in Brain Context and Diseases. **2020**, 8, 582975	3
505	Biological Behavioral Alterations of the Post-neural Differentiated Dental Pulp Stem Cells Through an Microenvironment. **2020**, 8, 625151	2
504	Inactivation-mimicking block of the epithelial calcium channel TRPV6. **2020**, 6,	6
503	Capsaicin and Gut Microbiota in Health and Disease. **2020**, 25,	16

502	Enhanced Sensory Coding in Mouse Vibrissal and Visual Cortex through TRPA1. **2020**, 32, 107935	3
501	Synthesis and Characterization of a Specific Iodine-125-Labeled TRPC5 Radioligand. **2020**, 15, 1854-1860	1
500	Pharmacologic inhibition of transient receptor channel vanilloid 4 attenuates abdominal aortic aneurysm formation. **2020**, 34, 9787-9801	1
499	TRPM8 Channel Activation Reduces the Spontaneous Contractions in Human Distal Colon. **2020**, 21,	6
498	Novel Therapeutic Approaches of Ion Channels and Transporters in Cancer. **2020**, 1	2
497	The Transient Receptor Potential Melastatin 7 (TRPM7) Inhibitors Suppress Seizure-Induced Neuron Death by Inhibiting Zinc Neurotoxicity. **2020**, 21,	4
496	TRPC6 channel and its implications in breast cancer: an overview. **2020**, 1867, 118828	7
495	Cell membrane mechanics and mechanosensory transduction. **2020**, 86, 83-141	9
494	Transgenic Expressing Human Transient Receptor Potential Ankyrin 1 (TRPA1) Channels to Assess the Effect of Agonists and Antagonists. **2020**, 11, 578955	1
493	TRPV1 genetic polymorphisms and risk of COPD or COPD combined with PH in the Han Chinese population. **2020**, 19, 3066-3073	8
492	Dysregulation of TRPV4, eNOS and caveolin-1 contribute to endothelial dysfunction in the streptozotocin rat model of diabetes. **2020**, 888, 173441	2
491	Photoactivatable Odorants for Chemosensory Research. **2020**, 15, 2516-2528	2
490	How Dysregulated Ion Channels and Transporters Take a Hand in Esophageal, Liver, and Colorectal Cancer. **2020**, 1	4
489	Molecular Cloning and Expression Profiles of Thermosensitive TRP Genes in. **2020**, 11,	2
488	Cannabidiol activation of vagal afferent neurons requires TRPA1. **2020**, 124, 1388-1398	4
487	Human Skin Microcirculation. **2020**, 10, 1105-1154	21
486	Targeting Chemosensory Ion Channels in Peripheral Swallowing-Related Regions for the Management of Oropharyngeal Dysphagia. **2020**, 21,	6
485	NLRP3 inflammasomes are involved in the progression of postoperative cognitive dysfunction: from mechanism to treatment. **2021**, 44, 1815-1831	5

484	Structure-Function Relationship of TRPM2: Recent Advances, Contradictions, and Open Questions. **2020**, 21,	5
483	Gut microbiota regulates neuropathic pain: potential mechanisms and therapeutic strategy. **2020**, 21, 103	20
482	Human TRPC5 structures reveal interaction of a xanthine-based TRPC1/4/5 inhibitor with a conserved lipid binding site. **2020**, 3, 704	12
481	Resolvins: Potent Pain Inhibiting Lipid Mediators via Transient Receptor Potential Regulation. **2020**, 8, 584206	2
480	The Ion Channel and GPCR Toolkit of Brain Capillary Pericytes. **2020**, 14, 601324	14
479	Giving Researchers a Headache - Sex and Gender Differences in Migraine. **2020**, 11, 549038	16
478	TRPM2 channel-mediated cell death: An important mechanism linking oxidative stress-inducing pathological factors to associated pathological conditions. **2020**, 37, 101755	13
477	Intracellular acidification facilitates receptor-operated TRPC4 activation through PLC1 in a Ca -dependent manner. **2020**, 598, 2651-2667	4
476	The Role of Ca-NFATc1 Signaling and Its Modulation on Osteoclastogenesis. **2020**, 21,	7
475	TRPV4: A Physio and Pathophysiologically Significant Ion Channel. **2020**, 21,	33
474	Mechanical tumor microenvironment and transduction: cytoskeleton mediates cancer cell invasion and metastasis. **2020**, 16, 2014-2028	33
473	Qingfei oral liquid alleviates airway hyperresponsiveness and mucus hypersecretion via TRPV1 signaling in RSV-infected asthmatic mice. **2020**, 128, 110340	7
472	Gating of human TRPV3 in a lipid bilayer. **2020**, 27, 635-644	23
471	Identification of Novel TRPC5 Inhibitors by Pharmacophore-Based and Structure-Based Approaches. **2020**, 87, 107302	3
470	Monoterpenoids: The Next Frontier in the Treatment of Chronic Pain?. **2020**, 3, 195-214	4
469	Calcium Entry through TRPV1: A Potential Target for the Regulation of Proliferation and Apoptosis in Cancerous and Healthy Cells. **2020**, 21,	18
468	Therapeutic potential of pharmacological agents targeting TRP channels in CNS disorders. **2020**, 159, 105026	15
467	Novel Targets for Stroke Therapy: Special Focus on TRPC Channels and TRPC6. **2020**, 12, 70	7

466	TRPM4 Modulates Right Ventricular Remodeling Under Pressure Load Accompanied With Decreased Expression Level. **2020**, 26, 599-609	6
465	Exploring the 'cold/hot' properties of traditional Chinese medicine by cell temperature measurement. **2020**, 58, 208-218	9
464	Transient Receptor Potential Canonical (TRPC) Channels as Modulators of Migration and Invasion. **2020**, 21,	5
463	Selenium enhances TRPA1 channel-mediated activity of temozolomide in SH-SY5Y neuroblastoma cells. **2020**, 36, 1283-1292	1
462	Modulation of experimental facial pain via somatosensory stimuli targeting sensations of different valence. **2020**, 47, 720-730	3
461	Canonical Transient Receptor Potential (TRPC) Channels in Nociception and Pathological Pain. **2020**, 2020, 3764193	5
460	An updated role of astragaloside IV in heart failure. **2020**, 126, 110012	24
459	Critical Signaling Events in the Mechanoactivation of Human Mast Cells through p.C492Y-ADGRE2. **2020**, 140, 2210-2220.e5	8
458	Localization of TRPA1 channels and characterization of TRPA1 mediated responses in dural and pial arteries in vivo after intracarotid infusion of NaS. **2020**, 40, 1310-1320	1
457	Voltage-dependent modulation of TRPA1 currents by diphenhydramine. **2020**, 90, 102245	1
456	Nanobiology-Symphony of bioscience and nanoscience. **2020**, 63, 1099-1102	2
455	Exploring the Therapeutic Potential of Membrane Transport Proteins: Focus on Cancer and Chemoresistance. **2020**, 12,	5
454	New natural agonists of the transient receptor potential Ankyrin 1 (TRPA1) channel. **2020**, 10, 11238	8
453	Epithelial TRPV1 channels: Expression, function, and pathogenicity in the oral cavity. **2020**, 62, 235-241	0
452	Continuous release of O2⁄ONOO⁻ in plasma-exposed HEPES-buffered saline promotes TRP channel-mediated uptake of a large cation. **2020**, 17, 1900257	4
451	Estrogen enhances the proliferation and migration of ovarian cancer cells by activating transient receptor potential channel C3. **2020**, 13, 20	7
450	Associations Between Genomic Variants in lncRNA-TRPM2-AS and lncRNA-HNF1A-AS1 Genes and Risk of Multiple Sclerosis. **2020**, 70, 1050-1055	3
449	TRPM3_miR-204:´a complex locus for eye development and disease. **2020**, 14, 7	12

448	Mechanosensitive Ion Channels: Structural Features Relevant to Mechanotransduction Mechanisms. **2020**, 43, 207-229	58
447	Transient receptor potential channels TRPC1/TRPC6 regulate lamina cribrosa cell extracellular matrix gene transcription and proliferation. **2020**, 193, 107980	4
446	Measuring Cellular Ion Transport by Magnetoencephalography. **2020**, 5, 4024-4031	1
445	The Role of Transient Receptor Potential Melastatin 7 (TRPM7) in Cell Viability: A Potential Target to Suppress Breast Cancer Cell Cycle. **2020**, 12,	24
444	Volatile anaesthetics inhibit the thermosensitive nociceptor ion channel transient receptor potential melastatin 3 (TRPM3). **2020**, 174, 113826	4
443	Role of Transient Receptor Potential Canonical Channel 6 (TRPC6) in Diabetic Kidney Disease by Regulating Podocyte Actin Cytoskeleton Rearrangement. **2020**, 2020, 6897390	13
442	GTL-1, a Calcium Activated TRPM Channel, Enhances Nociception. **2019**, 10, 1567	1
441	TRP Channels as Interior Designers: Remodeling the Endolysosomal Compartment in Natural Killer Cells. **2020**, 11, 753	8
440	High-resolution structures of transient receptor potential vanilloid channels: Unveiling a functionally diverse group of ion channels. **2020**, 29, 1569-1580	12
439	A Precise Microfluidic Assay in Single-Cell Profile for Screening of Transient Receptor Potential Channel Modulators. **2020**, 7, 2000111	6
438	Identification and Characterization of a Transient Receptor Potential Ion Channel (TRP2) Involved in Acclimation to Low CO2 Conditions in Chlamydomonas reinhardtii. **2020**, 38, 503-512	2
437	KPR-5714, a Novel Transient Receptor Potential Melastatin 8 Antagonist, Improves Overactive Bladder via Inhibition of Bladder Afferent Hyperactivity in Rats. **2020**, 373, 239-247	9
436	TRPV1, Targeted by miR-338-3p, Induces Neuropathic Pain by Interacting with NECAB2. **2021**, 71, 55-65	3
435	TRPV3 enhances skin keratinocyte proliferation through EGFR-dependent signaling pathways. **2021**, 37, 313-330	9
434	OBSOLETE: Ion Channels. **2021**,	
433	TRIM4 interacts with TRPM8 and regulates its channel function through K423-mediated ubiquitination. **2021**, 236, 2934-2949	2
432	Calmodulin binds to Drosophila TRP with an unexpected mode. **2021**, 29, 330-344.e4	3
431	Identification of N-acyl-N-indanyl-□phenylglycinamides as selective TRPM8 antagonists designed to mitigate the risk of adverse effects. **2021**, 30, 115903	2

430	Discovery of natural TRPA1 activators through pharmacophore-based virtual screening and a biological assay. **2021**, 31, 127639	
429	Identification of TRPV1 Ion Channels Agonists of Tropaeolum tuberosum in Human Skin Keratinocytes. **2021**, 87, 383-394	1
428	Effects of salt and gel network structures on purple membrane stacking in hydrogels immobilized with poly(vinyl alcohol). **2021**, 129, 014701	1
427	TRPV3 expression and purification for structure determination by Cryo-EM. **2021**, 652, 31-48	2
426	New Insights on the Role of TRP Channels in Calcium Signalling and Immunomodulation: Review of Pathways and Implications for Clinical Practice. **2021**, 60, 271-292	11
425	Contribution of TRPC Channels in Neuronal Excitotoxicity Associated With Neurodegenerative Disease and Ischemic Stroke. **2020**, 8, 618663	1
424	Computational Functional Genomics-Based AmpliSeq Panel for Next-Generation Sequencing of Key Genes of Pain. **2021**, 22,	
423	PIP regulation of TRPC5 channel activation and desensitization. **2021**, 296, 100726	6
422	PIP2 regulation of TRPC5 channel activation and desensitization.	
421	Synthetic Ion Channel Formed by Multiblock Amphiphile with Anisotropic Dual-Stimuli-Responsiveness. **2021**, 143, 1348-1355	9
420	Ion Channels. **2021**,	
419	Ion Channels and Transporters as Cancer Biomarkers and Targets for Diagnostics with Antibodies.	
418	TRPM8 Channel Promotes the Osteogenic Differentiation in Human Bone Marrow Mesenchymal Stem Cells. **2021**, 9, 592946	0
417	Neurotoxicity in Marine Invertebrates: An Update. **2021**, 10,	9
416	The Underlying Mechanism of Modulation of Transient Receptor Potential Melastatin 3 by protons. **2021**, 12, 632711	0
415	Involvement of Neuro-Immune Interactions in Pruritus With Special Focus on Receptor Expressions. **2021**, 8, 627985	4
414	Protective effect of transient receptor potential melastatin 2 inhibitor A10 on oxygen glucose deprivation/reperfusion model. **2021**, 50, 106-112	
413	Formalin Itch Test: Low-Dose Formalin Induces Histamine-Independent, TRPA1-Mediated Itch in Mice. **2021**, 8, 627725	2

412	Expression of transient receptor potential vanilloid genes and proteins in diabetic rat heart. **2021**, 48, 1217-1223	2
411	Effect of and Polymorphisms on COPD Predisposition and Lung Function in COPD Patients. **2021**, 11,	2
410	Role of Oxidative Stress and Ca Signaling in Psychiatric Disorders. **2021**, 9, 615569	3
409	Upregulation of transient receptor potential melastatin 4 (TRPM4) in ventricular fibroblasts from heart failure patients. **2021**, 473, 521-531	4
408	TRPM3 in Brain (Patho)Physiology. **2021**, 9, 635659	7
407	Oral biosciences: The annual review 2020. **2021**, 63, 1-7	
406	Transcriptional profiling of identified neurons in leech. **2021**, 22, 215	3
405	Cannabidiol induces autophagy via ERK1/2 activation in neural cells. **2021**, 11, 5434	10
404	TRPV1 channels regulate the automaticity of embryonic stem cell-derived cardiomyocytes through stimulating the Na /Ca exchanger current. **2021**, 236, 6806-6823	3
403	Structural basis for promiscuous action of monoterpenes on TRP channels. **2021**, 4, 293	4
402	Structural basis for human TRPC5 channel inhibition by two distinct inhibitors. **2021**, 10,	9
401	Bacterial cyclic diguanylate signaling networks sense temperature. **2021**, 12, 1986	8
400	TRP channels in airway sensory nerves. **2021**, 748, 135719	4
399	The use of zebrafish as a non-traditional model organism in translational pain research: the knowns and the unknowns. **2021**,	5
398	Suppression of aminoglycoside-induced premature termination codon readthrough by the TRP channel inhibitor AC1903.	
397	Structural analysis of the statocyst and nervous system of Praesagittifera naikaiensis, an acoel flatworm, during development after hatching. **2021**, 140, 183-192	2
396	Therapeutic inhibition of keratinocyte TRPV3 sensory channel by local anesthetic dyclonine. **2021**, 10,	5
395	Activation of TRPV1 by Capsaicin or Heat Drives Changes in 2-Acyl Glycerols and -Acyl Ethanolamines in a Time, Dose, and Temperature Dependent Manner. **2021**, 9, 611952	2

394	The Effect of Dialysis Solution Temperature and Stepwise Ultrafiltration Profile on Dialysis Adequacy and Pruritus in Hemodialysis Patients: A Quasi-experimental Study. **2021**, 9,	
393	Role of the TRP Channels in Pancreatic Ductal Adenocarcinoma Development and Progression. **2021**, 10,	2
392	The diversity in sensitivity of TRPA1 and TRPV1 of various animals to polyphenols. **2021**, 42, 43-51	0
391	Mapping the expression of transient receptor potential channels across murine placental development. **2021**, 78, 4993-5014	4
390	Reactive Oxygen Species-Induced TRPM2-Mediated Ca Signalling in Endothelial Cells. **2021**, 10,	5
389	Mechanisms of umami taste perception: From molecular level to brain imaging. **2021**, 1-10	2
388	New use of old medicine: Nifedipine acts on the TRP family and inflammatory proteins in the treatment of chilblain. **2021**,	
387	One-pot, two-step synthesis of substituted triazoloquinoxalinone starting from 3-hydrazineylquinoxalin-2(1H)-one. 1-7	
386	Does the Epigenome Hold Clues to Leptin-associated Hypertension in Obesity?. **2021**, 65, 132-133	2
385	TRPC4 ion channel regulations by small-molecular inhibitors and calmodulin. **2021**, 95, 102361	1
384	The mycoestrogen zeranol at high dosage antagonizes transient receptor potential channel activities in 3T3 L1 cells. **2021**, 344, 18-25	
383	TRPC3 and NALCN channels drive pacemaking in substantia nigra dopaminergic neurons.	
382	Role of TRPM7 kinase in cancer. **2021**, 96, 102400	2
381	New insights into molecular mechanisms of "Cold or Hot" nature of food: When East meets West. **2021**, 144, 110361	1
380	Altered Expression of Ion Channels in White Matter Lesions of Progressive Multiple Sclerosis: What Do We Know About Their Function?. **2021**, 15, 685703	3
379	ACRBP (Sp32) is involved in priming sperm for the acrosome reaction and the binding of sperm to the zona pellucida in a porcine model. **2021**, 16, e0251973	2
378	The Role of TRPC6 in Renal Ischemia/Reperfusion and Cellular Hypoxia/Reoxygenation Injuries. **2021**, 8, 698975	3
377	Functional Coupling of TRPM2 and NMDARs exacerbates excitotoxicity in ischemic brain injury.	

376	Correlation of membrane protein conformational and functional dynamics. **2021**, 12, 4363	1
375	TRP channels in health and disease at a glance. **2021**, 134,	3
374	TRPV Protein Family-From Mechanosensing to Cancer Invasion. **2021**, 11,	11
373	Structural mechanism of heat-induced opening of a temperature-sensitive TRP channel. **2021**, 28, 564-572	19
372	Evidence for the expression of TRPM6 and TRPM7 in cardiomyocytes from all four chamber walls of the human heart. **2021**, 11, 15445	0
371	In search of lost time: attosecond physics, petahertz optoelectronics, and quantum speed limit. **2021**, 64, 370-385	5
370	Tranilast, a Transient Receptor Potential Vanilloid 2 Channel (TRPV2) Inhibitor Attenuates Amyloid -Induced Cognitive Impairment: Possible Mechanisms. **2021**, 1	3
369	Molecular mechanism underlying modulation of TRPV1 heat activation by polyols. **2021**, 297, 100806	1
368	Advances in Intracellular Calcium Signaling Reveal Untapped Targets for Cancer Therapy. **2021**, 9,	1
367	Modulation of the Cardiac Myocyte Action Potential by the Magnesium-Sensitive TRPM6 and TRPM7-like Current. **2021**, 22,	0
366	Astrocytic potassium and calcium channels as integrators of the inflammatory and ischemic CNS microenvironment. **2021**, 402, 1519-1530	2
365	Effects of pharmacological agents for neurogenic oropharyngeal dysphagia: A systematic review and meta-analysis. **2021**, e14220	1
364	TRPC3 and NALCN channels drive pacemaking in substantia nigra dopaminergic neurons. **2021**, 10,	4
363	Calcium Channels: Noteworthy Regulators and Therapeutic Targets in Dermatological Diseases. **2021**, 12, 702264	0
362	Calcium Signaling Mechanisms Across Kingdoms. **2021**, 37, 311-340	12
361	Down-regulation of MAPK pathway alleviates TRPV4-mediated trigeminal neuralgia by inhibiting the activation of histone acetylation. **2021**, 239, 3397-3404	0
360	Pharmacology of TRPC Channels and Its Potential in Cardiovascular and Metabolic Medicine. **2021**,	2
359	Sequence conservation and structural features that are common within TRP channels.	

358	Selected transient receptor potential channel genes' expression in peripheral blood mononuclear cells of multiple sclerosis. **2021**, 40, S406-S413	1
357	From Molecular Pathology of COVID 19 to Nigella Sativum as a Treatment Option: Scientific Based Evidence of Its Myth or Reality. **2021**, 1	
356	TRPC5 Channel Inhibition Protects Podocytes in Puromycin-Aminonucleoside Induced Nephrosis Models. **2021**, 8, 721865	0
355	Identification of a helix-turn-helix motif for high temperature dependence of vanilloid receptor TRPV2. **2021**, 599, 4831-4844	1
354	Neurological susceptibility to environmental exposures: pathophysiological mechanisms in neurodegeneration and multiple chemical sensitivity. **2021**,	3
353	Immunomodulatory functions of TRPM7 and its implications in autoimmune diseases. **2021**,	0
352	Pathophysiological role of calcium channels and transporters in the multiple myeloma. **2021**, 19, 99	2
351	Pore Size Distributions Related with Spontaneous Purple Membrane Stacking in Porous Hydrogels. **2021**, 90, 103801	
350	Depression-like behavior associated with E/I imbalance of mPFC and amygdala without TRPC channels in mice of knockout IL-10 from microglia. **2021**, 97, 68-78	4
349	Treatment and Management of Muscular Dystrophies. **2022**, 492-527	
348	Molecular photoswitches in aqueous environments. **2021**, 50, 12377-12449	23
347	Biomimetic calcium-inactivated ion/molecular channel. **2021**, 57, 7914-7917	2
346	Effect of Temperature on Heart Rate for and with Altered Expression of the TrpA1 Receptors. **2021**, 12,	4
345	Renal vascular TRP channels. **2021**, 4, 17-23	1
344	Optical Assessment of Nociceptive TRP Channel Function at the Peripheral Nerve Terminal. **2021**, 22,	3
343	Mechanosensitive Channels. **2007**, 369-398	2
342	TRP Channels. **2007**, 399-423	0
341	TRPV1 as a Molecular Transducer for Salt and Water Homeostasis. **2007**, 110-132	1

340	Functional Molecular Biology of the TRPV1 Ion Channel. **2008**, 101-130	2
339	Ion Channels with Mechanosensitivity in the Nervous System. **2009**, 23-49	2
338	Roles of Corneal Epithelial Ion Transport Mechanisms in Mediating Responses to Cytokines and Osmotic Stress. **2008**, 17-46	1
337	Approaches to cloning of pain-related ion channel genes. **2013**, 998, 3-19	2
336	Calcium Signaling During Brain Aging and Its Influence on the Hippocampal Synaptic Plasticity. **2020** , 1131, 985-1012	9
335	Bioactive Lipids in Cancer, Inflammation and Related Diseases : Acute and Chronic Mild Traumatic Brain Injury Differentially Changes Levels of Bioactive Lipids in the CNS Associated with Headache. **2019**, 1161, 193-217	4
334	Encyclopedia of Signaling Molecules. **2018**, 5643-5649	2
333	TRPV5, the gateway to Ca2+ homeostasis. **2007**, 207-20	36
332	TRP channels in platelet function. **2007**, 425-43	32
331	TRPV channels' role in osmotransduction and mechanotransduction. **2007**, 473-87	40
330	TRPV Ion Channels and Sensory Transduction of Osmotic and Mechanical Stimuli in Mammals. **2008**, 85-100	1
329	TRPC Family of Ion Channels and Mechanotransduction. **2008**, 121-160	1
328	Transient receptor potential channels and itch: how deep should we scratch?. **2015**, 226, 89-133	18
327	Functional and structural studies of TRP channels heterologously expressed in budding yeast. **2011**, 704, 25-40	14
326	TRP channels as mediators of oxidative stress. **2011**, 704, 531-44	79
325	Study of TRP channels by automated patch clamp systems. **2011**, 704, 107-23	3
324	CRAC ion channels and airway defense reflexes in experimental allergic inflammation. **2013**, 756, 39-48	11
323	Interaction of hypoxia and core temperature: potential role of TRPV1. **2012**, 758, 173-8	5

322	Cellular and molecular properties of primary afferent neurons. **2006**, 35-48	9
321	Physiology of Cholangiocytes. **2006**, 1505-1533	3
320	Molecular Mechanisms of Calcium Influx in Axonal Degeneration. **2005**, 275-292	1
319	Muscular Dystrophies. **2012**, 1570-1606	1
318	The role of TRPC6 in HGF-induced cell proliferation of human prostate cancer DU145 and PC3 cells. **2010**, 12, 841-52	32
317	TRP channels in prostate cancer: the good, the bad and the ugly?. **2011**, 13, 673-6	54
316	The structural basis for an on-off switch controlling G□mediated inhibition of TRPM3 channels. **2020**, 117, 29090-29100	5
315	Cryo-EM structures of human TRPC5 reveal interaction of a xanthine-based TRPC1/4/5 inhibitor with a conserved lipid binding site.	3
314	Structural basis for human TRPC5 channel inhibition by two distinct inhibitors.	5
313	Structural basis of TRPC4 regulation by calmodulin and pharmacological agents.	2
312	Blocking the Rac1-TRPC5 pathway protects human podocytes.	0
311	Peripheral kappa opioid receptor activation drives cold hypersensitivity in mice.	0
310	Structure of the mouse TRPC4 ion channel.	6
309	Cryo-EM structure of the receptor-activated TRPC5 ion channel at 2.9 angstrom resolution.	3
308	Regulation of TRP channel TRPM2 by the tyrosine phosphatase PTPL1. **2007**, 292, C1746-58	33
307	Control of PTH secretion by the TRPC1 ion channel. **2020**, 5,	2
306	Frontiers in pruritus research: scratching the brain for more effective itch therapy. **2006**, 116, 1174-86	261
305	TRPA1 is a major oxidant sensor in murine airway sensory neurons. **2008**, 118, 1899-910	339

304	Inhibition of TRPC6 degradation suppresses ischemic brain damage in rats. **2010**, 120, 3480-92	91
303	Retinoids activate the irritant receptor TRPV1 and produce sensory hypersensitivity. **2013**, 123, 3941-51	39
302	□Adrenergic agonists augment air pollution-induced IL-6 release and thrombosis. **2014**, 124, 2935-46	86
301	Chemical Transduction in Vagal Afferent Nerve Endings. **2005**, 167-189	1
300	TRPM8. **2006**, 177-188	9
299	Voltage and Temperature Gating of ThermoTRP Channels. **2006**, 287-302	2
298	TRPV Channels□Function in Osmo- and Mechanotransduction. **2006**, 303-318	5
297	TRP Channel Trafficking. **2006**, 319-330	2
296	Functional Significance of Transient Receptor Potential Channels in Vascular Function. **2006**, 361-376	4
295	TRPV1 Receptors and Signal Transduction. **2006**, 69-84	20
294	Lipid Regulation of Cardiac Ion Channels in Heart Disease. **2013**, 77-100	1
293	Role of Transient Receptor Potential Channels in Acute and Chronic Itch. **2014**, 303-314	6
292	Activation of TRPV4 Channel Regulates Differentiation to and Function of Myeloid-Derived Suppressor Cells. **2020**, 3, 70-75	1
291	Role of Transient Receptor Potential Channels in Heart Transplantation: A Potential Novel Therapeutic Target for Cardiac Allograft Vasculopathy. **2017**, 23, 2340-2347	2
290	Formation of the ascidian epidermal sensory neurons: insights into the origin of the chordate peripheral nervous system. **2006**, 4, e225	108
289	Under-Expression of Chemosensory Genes in Domiciliary Bugs of the Chagas Disease Vector Triatoma brasiliensis. **2016**, 10, e0005067	13
288	Expression of TRPC6 in renal cortex and hippocampus of mouse during postnatal development. **2012**, 7, e38503	13
287	Cytoskeleton reorganization as an alternative mechanism of store-operated calcium entry control in neuroendocrine-differentiated cells. **2012**, 7, e45615	19

286	Transient receptor potential melastatin 1: a hair cell transduction channel candidate. **2013**, 8, e77213	7
285	Transient receptor potential channels encode volatile chemicals sensed by rat trigeminal ganglion neurons. **2013**, 8, e77998	29
284	Deep sequencing of the murine olfactory receptor neuron transcriptome. **2015**, 10, e0113170	57
283	Transient Receptor Potential Vanilloid 2 Regulates Myocardial Response to Exercise. **2015**, 10, e0136901	11
282	TRPM8 Channel Activation Induced by Monoterpenoid Rotundifolone Underlies Mesenteric Artery Relaxation. **2015**, 10, e0143171	12
281	Highly sensitive avoidance plays a key role in sensory adaptation to deep-sea hydrothermal vent environments. **2018**, 13, e0189902	3
280	Role of transient receptor potential channels in regulating spermatozoa functions: A mini-review. **2018**, 11, 1618-1623	5
279	Ca2+ entry channels involved in endothelin-1-induced contractions of vascular smooth muscle cells. **2005**, 41, 61-75	29
278	Alteration of calcium signaling as one of the mechanisms of Alzheimer's disease and diabetic polyneuropathy. **2010**, 56, 130-138	4
277	THE ROLE OF TRPV4 CATION CHANNELS IN THE REGULATION OF PHENYLEPHRINE-INDUCED CONTRACTION OF RAT PULMONARY ARTER. **2016**, 62, 79-86	2
276	The role of transient receptor potential polycystin channels in bone diseases. **2018**, 6, 246	9
275	Zinc-permeable ion channels: effects on intracellular zinc dynamics and potential physiological/pathophysiological significance. **2015**, 22, 1248-57	36
274	Transient receptor potential (TRP) channels and cardiac fibrosis. **2013**, 13, 270-82	62
273	Activation of Transient Receptor Potential Vanilloid (TRPV) 4 as a Therapeutic Strategy in Osteoarthritis. **2019**, 19, 2254-2267	6
272	Deciphering Subtype-Selective Modulations in TRPA1 Biosensor Channels. **2015**, 13, 266-78	8
271	TRPV1 Channel: A Potential Drug Target for Treating Epilepsy. **2015**, 13, 239-47	66
270	Psychiatric Disorders and TRP Channels: Focus on Psychotropic Drugs. **2015**, 13, 248-57	34
269	TRP Channels in Respiratory Pathophysiology: the Role of Oxidative, Chemical Irritant and Temperature Stimuli. **2015**, 13, 279-91	32

268	Hypoxic Pulmonary Vasoconstriction in Humans: Tale or Myth. **2017**, 11, 1-13	14
267	Role of opioid signaling in kidney damage during the development of salt-induced hypertension. **2020**, 3,	3
266	Immune Response of BALB/c Mice toward Putative Calcium Transporter Recombinant Protein of Trichomonas vaginalis. **2019**, 57, 33-38	4
265	Two Vanilloid Ligand Bindings Per Channel Are Required to Transduce Capsaicin-Activating Stimuli. **2019**, 12, 302	1
264	The Mysteries of Capsaicin-Sensitive Afferents. **2020**, 11, 554195	5
263	Effects of Different Doses of Curcumin on Apoptosis, Mitochondrial Oxidative Stress and Calcium Ion Influx in DBRG Glioblastoma Cells. **2017**, 9, 617-629	10
262	Pregabalin protected cisplatin-induced oxidative neurotoxicity in neuronal cell line. **2019**, 11, 815-824	7
261	Identification of TRPM7 channels in human intestinal interstitial cells of Cajal. **2009**, 15, 5799-804	21
260	Involvement of Transient Receptor Potential Melastatin 7 Channels in Sophorae Radix-induced Apoptosis in Cancer Cells: Sophorae Radix and TRPM7. **2012**, 15, 31-8	9
259	Effects of Ulmi Pumilae Cortex on AGS Gastric Cancer Cells. **2013**, 16, 55-61	3
258	Evaluation of the TRPM protein family as potential biomarkers for various types of human cancer using public database analyses. **2020**, 20, 770-785	2
257	Role of TRPM7 in cardiac fibrosis: A potential therapeutic target (Review). **2021**, 21, 173	3
256	Radix Sophorae Flavescentis inhibits proliferation and induces apoptosis of AGS human gastric cancer cells. **2019**, 19, 1911-1918	3
255	Assessment of Bacterial Endotoxin Lipopolysaccharide (LPS) Potential Interaction and TRPA1 Thermal Receptors on Synaptic Transmission. **2019**, 13, 10-21	1
254	Piperine Inhibits Visceral Pain Caused by Acetic Acid in Mice. **2007**, 2, 456-464	1
253	Isoliquiritigenin induces apoptosis through caspases and reactive oxygen species signaling pathways in human bladder cancer cells. **2020**, 16, 574	1
252	Rhythmic Trafficking of TRPV2 in the Suprachiasmatic Nucleus is Regulated by Prokineticin 2 Signaling. **2015**, 13, 2	4
251	Multiple roles of phosphoinositide-specific phospholipase C isozymes. **2008**, 41, 415-34	357

250	Overexpression of TRPM7 is associated with poor prognosis in human ovarian carcinoma. **2014**, 15, 3955-8	21
249	High temperature sensitivity is intrinsic to voltage-gated potassium channels. **2014**, 3, e03255	41
248	Inhibition of Transient Receptor Potential Melastatin 3 ion channels by G-protein □subunits. **2017**, 6,	50
247	Biophysical mechanisms in the mammalian respiratory oscillator re-examined with a new data-driven computational model. **2019**, 8,	9
246	Structural basis of TRPC4 regulation by calmodulin and pharmacological agents. **2020**, 9,	10
245	Deletion of in Hypothalamic Arcuate Nucleus Kiss1 Neurons Potentiates Synchronous GCaMP Activity and Protects against Diet-Induced Obesity. **2021**, 41, 9688-9701	3
244	Activation of transient receptor potential vanilloid 4 is involved in pressure overload-induced cardiac hypertrophy.	
243	Influence of atherosclerosis on the molecular expression of the TRPC1/BK signal complex in the aortic smooth muscles of mice. **2022**, 23, 4	
242	Tissue Engineering and Artificial Cells. **2004**,	
241	The Aminergic Systems and the Hypocretins. **2005**, 169-189	
240	TRPV1 in gut function, abdominal pain and functional bowel disorders. **2005**, 147-165	
239	Mechanotransduction by Vagal Tension Receptors in the Upper Gut. **2005**, 147-166	
238	Molecular Biology of Ca2+ Channels. **2005**, 147-160	
237	In vivo models of neurogenic inflammation. **2006**, 121-135	
236	Voltage and Temperature Gating of ThermoTRP Channels. **2006**, 309-324	
235	Multiple Mechanisms of TRPC Activation. **2006**, 31-43	
234	Genetics Can Be Painless. **2006**, 213-225	0
233	Analgesic drugs. **2007**, 588-609	1

232	Propiedades celulares y moleculares de las neuronas aferentes primarias. **2007**, 35-48	
231	How drugs act: cellular aspects Excitation, contraction and secretion. **2007**, 54-71	
230	Phosphatidylinositol-4,5-Bisphosphate Regulates Mechanotransduction and Adaptation in Hair Cells. **2007**, 47, 017-022	
229	Bibliography. **2007**, 619-690	
228	Multimodal Activation and Regulation of Neuronal Mechanosensitive Cation Channels. **2008**, 291-302	
227	Minor and Short-Acting Analgesics, Including Opioid Combination Products. **2008**, 613-641	1
226	Electrophysiology of cerebral vasospasm. **2008**, 87-93	1
225	Calcium Channels. **2008**, 1769-1783	
224	Osmotic and Ionic Regulation in Mammals. **2008**, 525-565	
223	Signal Molecules and Calcium. **2009**, 489-508	
222	Nutracosmeceutical Drinks: Innovation in Skin Functional Drinks. **2010**, 40-62	
221	Role of the Kidney in Calcium and Phosphorus Homeostasis. **2011**, 1371-1384	
220	TRPM2 Cation Channels and Oxidative Stress-Induced Neuronal Cell Death. **2011**, 61-76	
219	Polycystins and Autosomal Polycystic Kidney Disease. **2012**, 1027-1037	
218	Inherited Disorders of the Glomerulus. **2012**, 1570-1583	
217	Role of a Changing Membrane Potential (Em) and Matching Blood Flow with Neuronal Activity. **2012**, 391-408	
216	Skin ion channels in health and disease. **2012**, 35-42	
215	The Electrochemical Basis of Nerve Function. **2013**, 32-51	

214 TRPM1 and Congenital Stationary Night Blindness. **2014**, 317-331

213 Pathogenic Mechanisms of Pulmonary Hypertension. **2014**, 1-32

212 MscL, a Bacterial Mechanosensitive Channel. 259-290

211 Respiratory Homeostatic Dysfunction, Lower Respiratory Tract Dysfunction. **2014**, 99-250

210 Biophysical and Molecular Features of Thermosensitive TRP Channels Involved in Sensory Transduction. **2015**, 1-39 1

209 Ion Channels and Molecular Events in Neuronal Activity. **2015**, 710-715

208 Pathogenic Mechanisms of Pulmonary Hypertension. **2015**, 4079-4104

207 TRP Channels in Cold Transduction. **2015**, 185-207 4

206 Current studies and possibilities of cation/Ca2+ channels as a target of pestisides. **2015**, 40, 68-74

205 Membrane Lipids and Modulation of Vascular Smooth Muscle Ion Channels. **2016**, 349-380

204 Encyclopedia of Signaling Molecules. **2016**, 1-7

203 Different Channels. **2016**, 497-511

202 Chemical Biological Analysis of TRPA1 Activation Mechanism. **2016**, 74, 505-511

201 - Methods Used for Studying TRP Channel Functions in Sensory Neurons. **2016**, 296-321

200 Studying TRP Channels in Caenorhabditis elegans. **2016**, 470-487

199 - Activation of TRP Channels in Mammalian Systems. **2016**, 66-113

198 - High-Throughput Screening of TRPC Channel Ligands Using Cell-Based Assays. **2016**, 24-43

197 TRPM7 Channels as Potential Therapeutic Targets for Stroke. **2017**, 415-432

196	Focal Segmental Glomerulosclerosis, Pediatric. **2017**, 1-24	
195	Osmomechanical-Sensitive TRPV Channels in Mammals. **2017**, 85-94	
194	A Critical Role for TRP Channels in the Skin. **2017**, 95-112	
193	Decreased Expression of TRPM3 and mAChRM3 in the Small Intestine in Chronic Fatigue Syndrome/Myalgic Encephalomyelitis. **2018**, 09, 467-480	
192	Molecular Dynamics-Decorated Finite Element Method (MDeFEM): Application to the Gating Mechanism of Mechanosensitive Channels. **2018**, 1-52	
191	Effects of Dangkwisoo-San, Ginger and Curcumin on Transient Receptor Potential Melastatin 7 Channels. **2018**, 18, 10-18	1
190	Biophysical mechanisms in the mammalian respiratory oscillator re-examined with a new data-driven computational model.	0
189	Effects of Leejung-tang, Rikkunshito, and Bojungikgi-tang on Transient Receptor Potential Vanilloid 4 Channels. **2018**, 18, 57-63	3
188	It takes two vanilloid ligand bindings per channel to transduce painful capsaicin stimuli.	
187	Enhanced sensory coding in mouse vibrissal and visual cortex through TRPA1.	
186	Oral Chemesthesis and Taste. **2020**, 398-422	
185	Nanovibrational stimulation of mesenchymal stem cells induces therapeutic reactive oxygen species and inflammation for 3D bone tissue engineering.	
184	The Role of Cholesterol in Membrane Localization of TRPV5 Calcium Channels in Jurkat Human T Cells. **2020**, 14, 309-315	
183	Transcriptional Profiling of Identified Neurons in Leech.	
182	Oscillation of S5 helix under different temperatures in determination of the open probability of TRPV1 channel. **2020**, 29, 098701	1
181	A Selective TRPC3 Inhibitor Pyr3 Attenuates Myocardial Ischemia/Reperfusion Injury in Mice. **2020**, 40, 1107-1113	1
180	Finely-Tuned Calcium Oscillations in Osteoclast Differentiation and Bone Resorption. **2020**, 22,	3
179	Calcium mediated functional interplay between myocardial cells upon laser-induced single-cell injury: an in vitro study of cardiac cell death signaling mechanisms. **2020**, 18, 191	1

178	Calmodulin Supports TRPA1 Channel Association with Opioid Receptors and Glutamate NMDA Receptors in the Nervous Tissue. **2020**, 22,	2
177	Involvement of TRPV1 and TRPV4 Channels in Enhancement of Metastatic Ability Induced by Irradiation in Human Lung Cancer A549 Cells. **2020**, 3, 50-55	2
176	Genetics of Mechanoreceptor Evolution and Development. **2020**, 277-301	
175	Epithelial Ion Channel Folding and ER-Associated Degradation (ERAD). **2020**, 207-247	
174	Design, Synthesis, and Evaluation of Isoquinoline Ureas as TRPV1 Antagonists. **2020**, 16, 202-211	
173	Effective chiral pool synthesis of both enantiomers of the TRPML inhibitor trans-ML-SI3. **2021**, e2100362	1
172	Canales de calcio como blanco de interés farmacológico. **2020**, 18, 57-76	
171	TRP Channels as Molecular Sensors of Physical Stimuli in the Cardiovascular System. **2007**, 77-92	
170	TRPV4 and Hypotonic Stress. **2007**, 141-151	
169	Peripheral Nociceptors. **2007**, 247-263	
168	Study of Polycystic Kidney Disease in the Nematode Caenorhabditis elegans. **2008**, 703-711	
167	TRPM6 and TRPM7 Chanzymes Essential for Magnesium Homeostasis. **2007**, 34-45	
166	Modulation of Transient receptor potential melastatin 3 by protons through its intracellular binding sites.	
165	Association Analysis Between Common Variants of the Gene and Three Mental Disorders in the Han Chinese Population. **2020**, 24, 649-657	0
164	Deletion of Stim1 in hypothalamic arcuate nucleus Kiss1 neurons potentiates synchronous GCaMP activity and protects against diet-induced obesity.	
163	Therapeutic inhibition of keratinocyte TRPV3 sensory channel by local anesthetic dyclonine.	
162	Could early ischemic arrhythmia triggered by purinergic activation of the transient receptor potential channels be prevented by creatine?. **2010**, 15, e104-8	2
161	Ion channels as targets for cancer therapy. **2011**, 3, 156-66	56

160	TRPC6: an underlying target for human glaucoma. **2012**, 5, 523-6	2
159	Main ion channels and receptors associated with visceral hypersensitivity in irritable bowel syndrome. **2014**, 27, 200-206	17
158	Focal segmental glomerulosclerosis and end-stage kidney disease in children. **2015**, 4, 61-62	
157	Pain and the pathogenesis of biceps tendinopathy. **2017**, 9, 2668-2683	16
156	Deletion of diacylglycerol-responsive TRPC genes attenuates diabetic nephropathy by inhibiting activation of the TGF□1 signaling pathway. **2017**, 9, 5619-5630	13
155	TRPM7 is a unique target for therapeutic intervention of stroke. **2017**, 9, 211-216	2
154	Upregulated TRPC5 plays an important role in development of nasal polyps by activating eosinophilic inflammation and NF-B signaling pathways. **2018**, 11, 1935-1945	2
153	Chemesthesis and olfaction. **2022**, 179-203	
152	Inervaci cut ea. **2021**, 55, 1-8	
151	The recycling regulation of sodium-hydrogen exchanger isoform 3(NHE3) in epithelial cells. **2021**, 1-18	0
150	Hypocalcemia as the Initial Presentation of Type 2 Bartter Syndrome - A Family Report. **2021**,	
149	Editorial: Ion Channels: Therapeutic Targets for Neurological Disease. **2021**, 14, 797327	
148	Proton Sensing on the Ocular Surface: Implications in Eye Pain.. **2021**, 12, 773871	1
147	Oxidation sensitizes TRPV2 to chemical and heat stimuli, but not mechanical stimulation. **2021**, 28, 101173	
146	Magnetogenetics: remote activation of cellular functions triggered by magnetic switches.. **2022**,	1
145	Transient Receptor Potential (TRP) and Thermoregulation in Animals: Structural Biology and Neurophysiological Aspects.. **2022**, 12,	3
144	Controlled Activation of TRPV1 Channels on Microglia to Boost Their Autophagy for Clearance of Alpha-Synuclein and Enhance Therapy of Parkinson's Disease.. **2022**, e2108435	4
143	Melatonin attenuates cerebral hypoperfusion-induced hippocampal damage and memory deficits in rats by suppressing TRPM7 channels.. **2022**, 29, 2958-2968	0

142	A Systematic Review of Reported Methods of Stimulating Swallowing Function and their Classification.. **2022**, 256, 1-17	0
141	Capsaicin Receptors in Sleep Regulation. 1	
140	Oleuropein suppresses mitochondrial reactive oxygen species generation possibly via an activation of transient receptor potential V1 and sirtuin-1 in cultured chicken muscle cells.. **2022**, 93, e13677	1
139	Regulation and functions of membrane lipids: Insights from Caenorhabditis elegans. **2022**, 2, 100043	1
138	Senso-Immunologic Prospects for Complex Regional Pain Syndrome Treatment.. **2021**, 12, 786511	2
137	The industrial solvent 1,4-dioxane causes hyperalgesia by targeting capsaicin receptor TRPV1.. **2022**, 20, 10	2
136	Temperature modulates PVN pre-sympathetic neurones via transient receptor potential ion channels.	
135	A Systemic Review of the Integral Role of TRPM2 in Ischemic Stroke: From Upstream Risk Factors to Ultimate Neuronal Death.. **2022**, 11,	1
134	Modulation of ionic current behaviors based on a dual-channel micro/nano-pipette with ternary-form-charged model. **2022**, 908, 116089	
133	The Roles of Transient Receptor Potential Ion Channels in Pathologies of Glaucoma.. **2022**, 13, 806786	0
132	Non-selective TRPC channel inhibition and suppression of aminoglycoside-induced premature termination codon readthrough by the small molecule AC1903.. **2022**, 101546	4
131	A system for artificial light signal transduction molecular translocation in a lipid membrane.. **2022**, 13, 2487-2494	
130	Phenotypic spectrum of the recurrent TRPM3 p.(Val837Met) substitution in seven individuals with global developmental delay and hypotonia.. **2022**,	2
129	Plasmalemmal interface for calcium signaling in osteoclast differentiation.. **2022**, 74, 55-61	
128	Molecular determinants for the chemical activation of the warmth-sensitive TRPV3 channel by the natural monoterpenoid carvacrol.. **2022**, 101706	1
127	The Role of Thermosensitive Ion Channels in Mammalian Thermoregulation.. **2021**, 1349, 355-370	0
126	Distribution and Assembly of TRP Ion Channels.. **2021**, 1349, 111-138	1
125	The TRPM8 channel as a potential therapeutic target for bladder hypersensitive disorders.. **2022**, 58, 11-21	

124	Advances in the research field of osteoporosis in cold areas. **2022**, 2, 1-9	0
123	Baroreceptors in the Aortic Arch and Their Potential Role in Aortic Dissection and Aneurysms.. **2022**, 11,	1
122	Photo-Electrochemical Stimulation of Neurons with Organic Donor-Acceptor Heterojunctions.	0
121	TRPC3 Channel Activity and Viability of Purkinje Neurons can be Regulated by a Local Signalosome.. **2022**, 9, 818682	
120	Polycystin-1 regulates cell proliferation and migration through AKT/mTORC2 pathway in a human craniosynostosis cell model.. **2022**,	1
119	Sensory TRP Channels in Three Dimensions.. **2022**,	1
118	The cation channel TRPM8 influences the differentiation and function of human monocytes.. **2022**,	2
117	Multiscale Mechanobiology in Brain Physiology and Diseases.. **2022**, 10, 823857	4
116	Neuroendocrinology of the lung revealed by single cell RNA sequencing.	0
115	TRPV Family Ion Channels in the Mammary Epithelium: Role in Normal Tissue Homeostasis and along Breast Cancer Progression.	
114	Vanilloid agonist-mediated activation of TRPV1 channels requires coordinated movement of the S1–S4 bundle rather than a quiescent state. **2022**,	1
113	Activation of TRPV4 Induces Exocytosis and Ferroptosis in Human Melanoma Cells.. **2022**, 23,	2
112	Emerging Antiarrhythmic Drugs for Atrial Fibrillation.. **2022**, 23,	2
111	Capsaicin and TRPV1 Channels in the Cardiovascular System: The Role of Inflammation.. **2021**, 11,	1
110	TRPM7 Ion Channel: Oncogenic Roles and Therapeutic Potential in Breast Cancer.. **2021**, 13,	0
109	Animal models and experimental medicine and the Nobel Prize in Physiology or Medicine 2021-TRPV and PIEZO receptors for temperature and touch sensation.. **2021**, 4, 297-299	
108	TRP channel expression correlates with the epithelial-mesenchymal transition and high-risk endometrial carcinoma.. **2021**, 79, 1	1
107	Transient Receptor Potential Cation Channel Subfamily V Member 4 Mediates Pyroptosis in Chronic Obstructive Pulmonary Disease.. **2021**, 12, 783891	3

106 Store-Operated Calcium Entry and Its Implications in Cancer Stem Cells.. **2022**, 11, 1

105 TRPA1 Role in Inflammatory Disorders: What Is Known So Far?. **2022**, 23, 1

104 Preparation and application of taste bud organoids in biomedicine towards chemical sensation mechanisms.. **2022**, 0

103 Data_Sheet 1.pdf. **2018**,

102 Data_Sheet_1.pdf. **2018**,

101 Table_1.pdf. **2020**,

100 Table_1.DOCX. **2018**,

99 Table_2.DOCX. **2018**,

98 Table_3.DOCX. **2018**,

97 Data_Sheet_1.docx. **2020**,

96 DataSheet_1.pdf. **2020**,

95 Image_1.pdf. **2019**,

94 Image_2.pdf. **2019**,

93 Image_3.pdf. **2019**,

92 Image_4.pdf. **2019**,

91 Table_1.docx. **2019**,

90 Identification of an arthropod molecular target for plant-derived natural repellents.. **2022**, 119, e2118152119 0

89 TRPC6 Is Found in Distinct Compartments of the Human Kidney. **2022**, 2, 156-163

88	Estrogenic regulation of reproduction and energy homeostasis by a triumvirate of hypothalamic arcuate neurons.. **2022**, e13145	1
87	Force From Filaments: The Role of the Cytoskeleton and Extracellular Matrix in the Gating of Mechanosensitive Channels.. **2022**, 10, 886048	1
86	Further exploration of the benzimidazole scaffold as TRPC5 inhibitors: identification of 1-alkyl-2-(pyrrolidin-1-yl)-1H-benzo[d]imidazoles as potent and selective inhibitors.. **2022**,	0
85	Pit organ-based infrared discrimination sensitivity and signal transduction in the Burmese python (Python molurus bivitattus).. **2022**, 113910	
84	Irisin mediates beiging of adipose-derived mesenchymal stem cells through binding to TRPC3.. **2022**, 20, 95	0
83	Protein detection and localisation of the non-selective cation channel TRPC6 in the human heart.. **2022**, 174972	0
82	Photo-thermic mineralized collagen coatings and their modulation of macrophages polarization.. **2022**, 216, 112528	0
81	N-type fast inactivation of a eukaryotic voltage-gated sodium channel.. **2022**, 13, 2713	0
80	Ligand-Binding Sites in Vanilloid-Subtype TRP Channels. **2022**, 13,	2
79	TRPC5 deletion in the central amygdala antagonizes high-fat diet-induced obesity by increasing sympathetic innervation.. **2022**,	
78	Comparative genomics highlight the importance of lineage-specific gene families in evolutionary divergence of the coral genus, Montipora. **2022**, 22,	0
77	Sequence and structural conservation reveal fingerprint residues in TRP channels. 11,	0
76	Antirheumatoid Arthritic Effects of Sabia parviflora Wall. Leaf Extracts via the NF-B Pathway and Transient Receptor Potential Protein Family. 13,	
75	Critical contributions of pre-S1 shoulder and distal TRP box in DAG-activated TRPC6 channel by PIP2 regulation. **2022**, 12,	0
74	Activation of transient receptor potential vanilloid 4 is involved in pressure overload-induced cardiac hypertrophy. 11,	
73	Multi-neurotransmitter regulation of neural firing via coincidence of parallel G-protein signals. **2022**, 105, 102611	
72	Simulation and Machine Learning Methods for Ion-Channel Structure Determination, Mechanistic Studies and Drug Design. 13,	1
71	Endothelial Cells and the Cerebral Circulation. 3449-3508	

70	Cutaneous TRPV4 Channels Activate Warmth-Defense Responses in Young and Adult Birds. 13,	
69	New Insights into TRP Ion Channels in Stem Cells. **2022**, 23, 7766	1
68	miR-199a Is Upregulated in GDM Targeting the MeCP2-Trpc3 Pathway. 13,	0
67	TRPM7 channel inhibition attenuates rheumatoid arthritis articular chondrocyte ferroptosis by suppression of the PKC□NOX4 axis. **2022**, 102411	2
66	Acute inhibition of transient receptor potential vanilloid-type 4 cation channel halts cytoskeletal dynamism in microglia.	1
65	Klotho Modulates Pro-Fibrotic Activities in Human Atrial Fibroblasts through Inhibition of Phospholipase C Signaling and Suppression of Store-Operated Calcium Entry. **2022**, 10, 1574	0
64	Recent advances in the structural biology of Mg2+ channels and transporters. **2022**, 167729	1
63	The Effects of Ambient Temperature on Lumbar Disc Herniation: A Retrospective Study. 9,	
62	Extreme Membrane Tensile Loads Induce Half-Activation of the Thermosensitive TRPV1 Channel. **2022**, 13, 6306-6310	
61	Plant Olfactory Aposematism Through an Exploited Signal Repeals Vertebrate Herbivores But Attracts the Exploiter.	
60	Central regulation of body fluid homeostasis. **2022**, 98, 283-324	0
59	A TRPV1 common missense variant affected the prognosis of ischemic cardiomyopathy. **2022**, 101, e29892	
58	TRPM4 gene variation associated with climatic conditions in Chinese cattle. 1-5	
57	Dexmedetomidine Alleviates Neuropathic Pain via the TRPC6-p38 MAPK Pathway in the Dorsal Root Ganglia of Rats. Volume 15, 2437-2448	
56	Effect of the temperature of activation medium on fish sperm quality: Impact on fertilization in vitro in aquaculture practice.	
55	Palmitoylation regulates cellular distribution of and transmembrane Ca flux through TrpM7. **2022**, 106, 102639	0
54	The Utility of Capsicum annuum L. in Internal Medicine and In Dentistry: A Comprehensive Review. **2022**, 19, 11187	1
53	The interplay between physical cues and mechanosensitive ion channels in cancer metastasis. 10,	0

52	Transient receptor potential melastatin-7 in the rat dorsal root ganglion. **2022**, 125, 102163	0
51	Vasopressin regulation of maternal body fluid balance in pregnancy and lactation: A role for TRPV channels?. **2022**, 558, 111764	0
50	Transient Receptor Potential (TRP) Channels non Genomic Regulation by Sex Steroids: The Less Traveled Pathway. **2022**,	0
49	Transient Receptor Potential Channels: Important Players in Ocular Pain and Dry Eye Disease. **2022**, 14, 1859	0
48	Retinal TRP channels: Cell-type-specific regulators of retinal homeostasis and multimodal integration. **2022**, 101114	0
47	TRPM8 marks poor prognosis in colorectal cancer patients and its pharmacological targeting reduces tumor growth in mice by inhibiting Wnt/β-catenin signalling.	0
46	Lysosomal Ion Channels: What Are They Good For and Are They Druggable Targets?. **2023**, 63,	3
45	The past and future of transient receptor potential: A scientometric analysis. **2022**, 101, e30317	0
44	Mining Lygus hesperus (western tarnished plant bug) transcriptomic data for transient receptor potential channels: Expression profiling and functional characterization of a Painless homolog. **2022**, 101027	0
43	Mesenchymal cell TRPM7 expression is required for bone formation via the regulation of chondrogenesis. **2022**, 116579	3
42	The Distinguishing Electrical Properties of Cancer Cells. **2022**,	0
41	Specific and non-uniform brain states during cold perception in mice.	0
40	Structural and functional analyses of a GPCR-inhibited ion channel TRPM3. **2022**,	2
39	Structural basis of TRPV3 inhibition by an antagonist.	0
38	The Endocannabinoid Analgesic Entourage Effect: Investigations in Cultured DRG Neurons. Volume 15, 3493-3507	0
37	Melanocortin-4 receptors activate sympathetic preganglionic neurons and elevate blood pressure via TRPV1. **2022**, 41, 111579	0
36	Dynamic evolution of transient receptor potential vanilloid (TRPV) ion channel family with numerous gene duplications and losses. 13,	0
35	Clinical and Prognostic Values of TRPM7 in Colon and Rectal Cancers. **2022**, 58, 1582	0

34	A pan-cancer-bioinformatic-based literature review of TRPM7 in cancers. **2022**, 108302	0
33	A review of the bioeffects of low-intensity focused ultrasound and the benefits of a cellular approach. 13,	0
32	Potential Role of TRPV4 in Stretch-Induced Ghrelin Secretion and Obesity. **2022**, 2022, 1-10	0
31	Transient Receptor Potential (TRP) Family of Channel Proteins. **2022**, 53, 309-320	0
30	CRISPR/SaCas9 mutagenesis of stromal interaction molecule 1 in proopiomelanocortin neurons increases glutamatergic excitability and protects against diet-induced obesity. **2022**, 66, 101645	0
29	Regulation of lens water content: Effects on the physiological optics of the lens. **2022**, 101152	0
28	Overview of Anti-Inflammatory and Anti-Nociceptive Effects of Polyphenols to Halt Osteoarthritis: From Preclinical Studies to New Clinical Insights. **2022**, 23, 15861	0
27	[6]-Gingerol Facilitates CXCL8 Secretion and ROS Production in Primary Human Neutrophils by Targeting the TRPV1 Channel. 2200434	1
26	Neuroendocrinology of the lung revealed by single-cell RNA sequencing. 11,	0
25	Mechanisms of ion selectivity and throughput in the mitochondrial calcium uniporter. **2022**, 8,	0
24	Effect of Static Pressure on Early Apoptosis of Condylar Chondrocytes by Activating Transient Receptor Potential Melastatin 7 (TRPM7) Channel. **2022**, 12, 2456-2460	0
23	Thermo-Transient Receptor Potential Channels: Therapeutic Potential in Gastric Cancer. **2022**, 23, 15289	0
22	Functional validation of co-culture model of human keratinocytes and neuronal cell line for sensitive skin by using transient receptor potential channel vanilloid subfamily member 1 antagonist. **2023**, 29,	0
21	Visceral Sensitivity. **2022**, 43-59	0
20	TRPV3: Structure, Diseases and Modulators. **2023**, 28, 774	0
19	TRP Channels: Recent Development in Translational Research and Potential Therapeutic Targets in Migraine. **2023**, 24, 700	0
18	The neuropeptide substance P/neurokinin-1 receptor system and diabetes: From mechanism to therapy.	0
17	Mitochondrial calcium cycling in neuronal function and neurodegeneration. 11,	0

16	Light-Driven Ion Transport through Single-Heterojunction Nanopores. **2023**, 23, 1010-1016	0
15	Cytosolic DNA sensing by cGAS/STING promotes TRPV2-mediated Ca2+ release to protect stressed replication forks. **2023**,	0
14	Involvement of TRPM7 in Alcohol-Induced Damage of the BloodBrain Barrier in the Presence of HIV Viral Proteins. **2023**, 24, 1910	0
13	Effect of Long-Term Adaptation to Cold and Short-Term Cooling on the Expression of the TRPM2 Ion Channel Gene in the Hypothalamus of Rats. **2023**, 45, 1002-1011	0
12	On the modulation of TRPM channels: Current perspectives and anticancer therapeutic implications. 12,	0
11	Eugenol promotes appetite through TRP channels mediated-CaMKK2 / AMPK signaling pathway.	0
10	Pathophysiological Roles of Transient Receptor Potential (Trp) Channels and Zinc Toxicity in Brain Disease. **2023**, 24, 6665	0
9	Restoration of metal homeostasis: a potential strategy against neurodegenerative diseases. **2023**, 87, 101931	0
8	TRPM2 regulates cell cycle through the Ca2+-CaM-CaMKII signaling pathway to promote HCC. **2023** , 7,	0
7	Polycystin Channel Complexes. **2023**, 85, 425-448	0
6	Acid-sensing ion channel 3 is required for agmatine-induced histamine-independent itch in mice. 16,	0
5	Modification of the TRP Channel TRPA1 as a Relevant Factor in Migraine-Related Intracranial Hypersensitivity. **2023**, 24, 5375	0
4	A bibliometrics analysis and visualization study of TRPV1 channel. 14,	0
3	Optical neuromodulation at all scales: from nanomaterials to wireless optoelectronics and integrated systems.	0
2	Characterization and expression profile of transient receptor potential channels in sea cucumber Apostichopus japonicus. 10,	0
1	Innate cocaine-seeking vulnerability arising from loss of serotonin-mediated aversive effects of cocaine in rats. **2023**, 42, 112404	0