

Gyorgy Panyi

List of Publications by Year in descending order

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109
papers

2,837
citations

159525

30
h-index

214721

47
g-index

113
all docs

113
docs citations

113
times ranked

2724
citing authors

#	ARTICLE	IF	CITATIONS
1	Activation mechanism dependent surface exposure of cellular factor XIII on activated platelets and platelet microparticles. <i>Journal of Thrombosis and Haemostasis</i> , 2022, 20, 1223-1235.	1.9	14
2	Role of C-Terminal Domain and Membrane Potential in the Mobility of Kv1.3 Channels in Immune Synapse Forming T Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3313.	1.8	1
3	sVmKTx, a transcriptome analysis-based synthetic peptide analogue of Vm24, inhibits Kv1.3 channels of human T cells with improved selectivity. <i>Biochemical Pharmacology</i> , 2022, 199, 115023.	2.0	4
4	Cm28, a scorpion toxin having a unique primary structure, inhibits KV1.2 and KV1.3 with high affinity. <i>Journal of General Physiology</i> , 2022, 154, .	0.9	8
5	The Kv1.3 K ⁺ channel in the immune system and its precision pharmacology using peptide toxins. <i>Biologia Futura</i> , 2021, 72, 75-83.	0.6	13
6	An ω -3, but Not an ω -6 Polyunsaturated Fatty Acid Decreases Membrane Dipole Potential and Stimulates Endo-Lysosomal Escape of Penetratin. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 647300.	1.8	11
7	Shaker-IR K ⁺ channel gating in heavy water: Role of structural water molecules in inactivation. <i>Journal of General Physiology</i> , 2021, 153, .	0.9	5
8	Lipopolysaccharide influences the plasma and brain pharmacokinetics of subcutaneously-administered HsTX1[R14A], a KV1.3-blocking peptide. <i>Toxicon</i> , 2021, 195, 29-36.	0.8	5
9	Enhanced Expression of Human Epididymis Protein 4 (HE4) Reflecting Pro-Inflammatory Status Is Regulated by CFTR in Cystic Fibrosis Bronchial Epithelial Cells. <i>Frontiers in Pharmacology</i> , 2021, 12, 592184.	1.6	10
10	A disulfide-stabilised helical hairpin fold in acrorhagin I: An emerging structural motif in peptide toxins. <i>Journal of Structural Biology</i> , 2021, 213, 107692.	1.3	10
11	KCNE4-dependent functional consequences of Kv1.3-related leukocyte physiology. <i>Scientific Reports</i> , 2021, 11, 14632.	1.6	4
12	Optimization of <i>Pichia pastoris</i> Expression System for High-Level Production of Margatoxin. <i>Frontiers in Pharmacology</i> , 2021, 12, 733610.	1.6	8
13	Immunomagnetic separation is a suitable method for electrophysiology and ion channel pharmacology studies on T cells. <i>Channels</i> , 2021, 15, 53-66.	1.5	5
14	Immune Synapse Residency of Orai1 Alters Ca ²⁺ Response of T Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11514.	1.8	4
15	Cyclodextrins Exert a Ligand-like Current Inhibitory Effect on the KV1.3 Ion Channel Independent of Membrane Cholesterol Extraction. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 735357.	1.6	9
16	Peptide Inhibitors of Kv1.5: An Option for the Treatment of Atrial Fibrillation. <i>Pharmaceuticals</i> , 2021, 14, 1303.	1.7	10
17	Structural basis of the potency and selectivity of Urotoxin, a potent Kv1 blocker from scorpion venom. <i>Biochemical Pharmacology</i> , 2020, 174, 113782.	2.0	12
18	Weaponisation on the fly: Convergent recruitment of knottin and defensin peptide scaffolds into the venom of predatory assassin flies. <i>Insect Biochemistry and Molecular Biology</i> , 2020, 118, 103310.	1.2	10

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19	The voltage-gated proton channel hHv1 is functionally expressed in human chorion-derived mesenchymal stem cells. <i>Scientific Reports</i> , 2020, 10, 7100.	1.6	10
20	The voltage-gated potassium channel KV1.3 as a therapeutic target for venom-derived peptides. <i>Biochemical Pharmacology</i> , 2020, 181, 114146.	2.0	39
21	Periodic Membrane Potential and Ca ²⁺ Oscillations in T Cells Forming an Immune Synapse. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1568.	1.8	9
22	Direct and indirect cholesterol effects on membrane proteins with special focus on potassium channels. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2020, 1865, 158706.	1.2	50
23	A Novel Insecticidal Spider Peptide that Affects the Mammalian Voltage-Gated Ion Channel hKv1.5. <i>Frontiers in Pharmacology</i> , 2020, 11, 563858.	1.6	11
24	Ion Channels Orchestrate Pancreatic Ductal Adenocarcinoma Progression and Therapy. <i>Frontiers in Pharmacology</i> , 2020, 11, 586599.	1.6	20
25	The activation gate controls steady-state inactivation and recovery from inactivation in <i>Shaker</i> . <i>Journal of General Physiology</i> , 2020, 152, .	0.9	7
26	Pore-modulating toxins exploit inherent slow inactivation to block K ⁺ channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 18700-18709.	3.3	23
27	N-methyl-D-aspartate (NMDA) receptor expression and function is required for early chondrogenesis. <i>Cell Communication and Signaling</i> , 2019, 17, 166.	2.7	9
28	Determining the target of membrane sterols on voltage-gated potassium channels. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2019, 1864, 312-325.	1.2	13
29	Synthesis, folding, structure and activity of a predicted peptide from the sea anemone <i>Oulactis</i> sp. with an ShKT fold. <i>Toxicon</i> , 2018, 150, 50-59.	0.8	19
30	Selective Na ^V 1.1 activation rescues Dravet syndrome mice from seizures and premature death. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E8077-E8085.	3.3	105
31	Membrane Potential Distinctly Modulates Mobility and Signaling of IL-2 and IL-15 Receptors in T Cells. <i>Biophysical Journal</i> , 2018, 114, 2473-2482.	0.2	8
32	The C-terminal HRET sequence of Kv1.3 regulates gating rather than targeting of Kv1.3 to the plasma membrane. <i>Scientific Reports</i> , 2018, 8, 5937.	1.6	4
33	Pi5 and Pi6, two undescribed peptides from the venom of the scorpion <i>Pandinus imperator</i> and their effects on K ⁺ -channels. <i>Toxicon</i> , 2017, 133, 136-144.	0.8	7
34	Optimization of the Synthesis of Flavone-Amino Acid and Flavone-Dipeptide Hybrids via Buchwald-Hartwig Reaction. <i>Journal of Organic Chemistry</i> , 2017, 82, 4578-4587.	1.7	20
35	A new mechanism of voltage-dependent gating exposed by KV10.1 channels interrupted between voltage sensor and pore. <i>Journal of General Physiology</i> , 2017, 149, 577-593.	0.9	30
36	Sterol Regulation of Voltage-Gated K ⁺ Channels. <i>Current Topics in Membranes</i> , 2017, 80, 255-292.	0.5	14

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37	An engineered scorpion toxin analogue with improved Kv1.3 selectivity displays reduced conformational flexibility. <i>Scientific Reports</i> , 2016, 5, 18397.	1.6	21
38	Closed-state inactivation involving an internal gate in Kv4.1 channels modulates pore blockade by intracellular quaternary ammonium ions. <i>Scientific Reports</i> , 2016, 6, 31131.	1.6	6
39	7DHC-induced changes of Kv1.3 operation contributes to modified T cell function in Smith-Lemli-Opitz syndrome. <i>Pflügers Archiv European Journal of Physiology</i> , 2016, 468, 1403-1418.	1.3	15
40	Different expression of β subunits of the KCa1.1 channel by invasive and non-invasive human fibroblast-like synoviocytes. <i>Arthritis Research and Therapy</i> , 2016, 18, 103.	1.6	21
41	Probing pattern and dynamics of disulfide bridges using synthesis and NMR of an ion channel blocker peptide toxin with multiple diselenide bonds. <i>Chemical Science</i> , 2016, 7, 2666-2673.	3.7	7
42	The anti-proliferative effect of cation channel blockers in T lymphocytes depends on the strength of mitogenic stimulation. <i>Immunology Letters</i> , 2016, 171, 60-69.	1.1	9
43	Isolation, chemical and functional characterization of several new K ⁺ -channel blocking peptides from the venom of the scorpion <i>Centruroides tecomanus</i> . <i>Toxicon</i> , 2016, 115, 1-12.	0.8	24
44	Potassium Channel Blocking Peptide Toxins from Scorpion Venom. , 2015, , 493-527.		3
45	Mesenchymal Stromal Cell-Like Cells Set the Balance of Stimulatory and Inhibitory Signals in Monocyte-Derived Dendritic Cells. <i>Stem Cells and Development</i> , 2015, 24, 1805-1816.	1.1	8
46	Pituitary Adenylate Cyclase Activating Polypeptide (PACAP) Signalling Exerts Chondrogenesis Promoting and Protecting Effects: Implication of Calcineurin as a Downstream Target. <i>PLoS ONE</i> , 2014, 9, e91541.	1.1	40
47	Ion channels and anti-cancer immunity. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130106.	1.8	50
48	Structure, Molecular Modeling, and Function of the Novel Potassium Channel Blocker Urotoxin Isolated from the Venom of the Australian Scorpion <i>Urodacus yaschenko</i> . <i>Molecular Pharmacology</i> , 2014, 86, 28-41.	1.0	21
49	Margatoxin is a non-selective inhibitor of human Kv1.3 K ⁺ channels. <i>Toxicon</i> , 2014, 87, 6-16.	0.8	61
50	Margatoxin is a Nonselective Inhibitor of Kv1.3 Channels - A Comprehensive Study. <i>Biophysical Journal</i> , 2014, 106, 551a-552a.	0.2	2
51	The role of PSD-95 in the rearrangement of Kv1.3 channels to the immunological synapse. <i>Pflügers Archiv European Journal of Physiology</i> , 2013, 465, 1341-1353.	1.3	24
52	Molecular Determinants of Selectivity for Kv1.3 K ⁺ Channels. <i>Biophysical Journal</i> , 2013, 104, 465a.	0.2	2
53	OcyKTx2, a new K ⁺ -channel toxin characterized from the venom of the scorpion <i>Opisthacanthus cayaporum</i> . <i>Peptides</i> , 2013, 46, 40-46.	1.2	14
54	Analysis of the K ⁺ current in human CD4 ⁺ T lymphocytes in hypercholesterolemic state. <i>Cellular Immunology</i> , 2013, 281, 20-26.	1.4	8

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55	Transient receptor potential vanilloid α 2 mediates the effects of transient heat shock on endocytosis of human monocyte α derived dendritic cells. FEBS Letters, 2013, 587, 1440-1445.	1.3	32
56	Membrane microdomain organization, calcium signal, and NFAT activation as an important axis in polarized Th cell function. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2013, 83A, 185-196.	1.1	19
57	Vm24, a Natural Immunosuppressive Peptide, Potently and Selectively Blocks Kv1.3 Potassium Channels of Human T Cells. Molecular Pharmacology, 2012, 82, 372-382.	1.0	83
58	Structure, Function, and Chemical Synthesis of <i>Vaejovis mexicanus</i> Peptide 24: A Novel Potent Blocker of Kv1.3 Potassium Channels of Human T Lymphocytes. Biochemistry, 2012, 51, 4049-4061.	1.2	51
59	Intact rat superior mesenteric artery endothelium is an electrical syncytium and expresses strong inward rectifier K ⁺ conductance. Biochemical and Biophysical Research Communications, 2011, 410, 501-507.	1.0	14
60	Switch of Voltage-Gated K ⁺ Channel Expression in the Plasma Membrane of Chondrogenic Cells Affects Cytosolic Ca ²⁺ -Oscillations and Cartilage Formation. PLoS ONE, 2011, 6, e27957.	1.1	39
61	Effects of the PKC inhibitors chelerythrine and bisindolylmaleimide I (GF 109203X) on delayed rectifier K ⁺ currents. Naunyn-Schmiedeberg's Archives of Pharmacology, 2011, 383, 141-148.	1.4	16
62	Voltage-Gated Sodium Channel Nav1.7 Maintains the Membrane Potential and Regulates the Activation and Chemokine-Induced Migration of a Monocyte-Derived Dendritic Cell Subset. Journal of Immunology, 2011, 187, 1273-1280.	0.4	43
63	Answer to the "Comment on functional consequences of Kv1.3 ion channel rearrangement into the immunological synapse" by Stefan Bittner et al. [Immunol. Lett. 125 (Aug 15 (2)) (2009) 156-157]. Immunology Letters, 2010, 129, 47-49.	1.1	1
64	Ion channels in T lymphocytes: An update on facts, mechanisms and therapeutic targeting in autoimmune diseases. Immunology Letters, 2010, 130, 19-25.	1.1	46
65	Developmental Switch of the Expression of Ion Channels in Human Dendritic Cells. Journal of Immunology, 2009, 183, 4483-4492.	0.4	51
66	Potassium channel expression in human CD4 ⁺ regulatory and na \tilde{v} e T cells from healthy subjects and multiple sclerosis patients. Immunology Letters, 2009, 124, 95-101.	1.1	22
67	Functional consequences of Kv1.3 ion channel rearrangement into the immunological synapse. Immunology Letters, 2009, 125, 15-21.	1.1	22
68	Tst26, a novel peptide blocker of Kv1.2 and Kv1.3 channels from the venom of Tityus stigmurus. Toxicon, 2009, 54, 379-389.	0.8	30
69	Effects of changes in extracellular pH and potassium concentration on Kv1.3 inactivation. European Biophysics Journal, 2008, 37, 1145-1156.	1.2	7
70	IV. International conference on molecular recognition. European Biophysics Journal, 2008, 37, 1083-1084.	1.2	1
71	A selective blocker of Kv1.2 and Kv1.3 potassium channels from the venom of the scorpion Centruroides suffusus suffusus. Biochemical Pharmacology, 2008, 76, 1142-1154.	2.0	46
72	Involvement of Membrane Channels in Autoimmune Disorders. Current Pharmaceutical Design, 2007, 13, 2456-2468.	0.9	8

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73	Probing the Cavity of the Slow Inactivated Conformation of Shaker Potassium Channels. <i>Journal of General Physiology</i> , 2007, 129, 403-418.	0.9	37
74	Nutrition and immune system: Certain fatty acids differently modify membrane composition and consequently kinetics of Kv1.3 channels of human peripheral lymphocytes. <i>Immunobiology</i> , 2007, 212, 213-227.	0.8	13
75	Differential expression of potassium currents in Deiters cells of the guinea pig cochlea. <i>Pflugers Archiv European Journal of Physiology</i> , 2006, 452, 332-341.	1.3	6
76	Changes in Purinoceptor Distribution and Intracellular Calcium Levels following Noise Exposure in the Outer Hair Cells of the Guinea Pig. <i>Journal of Membrane Biology</i> , 2006, 213, 135-141.	1.0	7
77	Death or survival: Membrane ceramide controls the fate and activation of antigen-specific T-cells depending on signal strength and duration. <i>Cellular Signalling</i> , 2006, 18, 294-306.	1.7	37
78	Cross Talk between Activation and Slow Inactivation Gates of Shaker Potassium Channels. <i>Journal of General Physiology</i> , 2006, 128, 547-559.	0.9	81
79	K ⁺ Channel Blockers: Novel Tools to Inhibit T Cell Activation Leading to Specific Immunosuppression. <i>Current Pharmaceutical Design</i> , 2006, 12, 2199-2220.	0.9	89
80	The EBSA prize lecture. <i>European Biophysics Journal</i> , 2005, 34, 515-530.	1.2	50
81	Anuroctoxin, a New Scorpion Toxin of the $\hat{I}\pm$ -KTx 6 Subfamily, Is Highly Selective for Kv1.3 over IKCa1 Ion Channels of Human T Lymphocytes. <i>Molecular Pharmacology</i> , 2005, 67, 1034-1044.	1.0	58
82	Novel $\hat{I}\pm$ -KTx peptides from the venom of the scorpion <i>Centruroides elegans</i> selectively blockade Kv1.3 over IKCa1 K ⁺ channels of T cells. <i>Toxicon</i> , 2005, 46, 418-429.	0.8	31
83	Kv1.3 potassium channels are localized in the immunological synapse formed between cytotoxic and target cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 1285-1290.	3.3	119
84	pH-dependent modulation of Kv1.3 inactivation: role of His399. <i>American Journal of Physiology - Cell Physiology</i> , 2004, 287, C1067-C1076.	2.1	33
85	Regulation of the lateral wall stiffness by acetylcholine and GABA in the outer hair cells of the guinea pig. <i>European Journal of Neuroscience</i> , 2004, 20, 3364-3370.	1.2	19
86	Ion channels and lymphocyte activation. <i>Immunology Letters</i> , 2004, 92, 55-66.	1.1	101
87	New phenotypic, functional and electrophysiological characteristics of KG-1 cells. <i>Immunology Letters</i> , 2004, 92, 97-106.	1.1	13
88	Looking through ion channels: recharged concepts in T-cell signaling. <i>Trends in Immunology</i> , 2004, 25, 565-569.	2.9	37
89	Differential expression of purinergic receptor subtypes in the outer hair cells of the guinea pig. <i>Hearing Research</i> , 2004, 196, 2-7.	0.9	28
90	An Alternative to Conventional Immunosuppression: Small-Molecule Inhibitors of Kv1.3 Channels. <i>Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics</i> , 2004, 4, 250-254.	3.4	14

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91	Cholesterol modifies the gating of Kv1.3 in human T lymphocytes. Pflugers Archiv European Journal of Physiology, 2003, 445, 674-682.	1.3	82
92	Active and passive behaviour in the regulation of stiffness of the lateral wall in outer hair cells of the guinea-pig. Pflugers Archiv European Journal of Physiology, 2003, 447, 328-336.	1.3	13
93	Colocalization and nonrandom distribution of Kv1.3 potassium channels and CD3 molecules in the plasma membrane of human T lymphocytes. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 2592-2597.	3.3	80
94	Drug- and mutagenesis-induced changes in the selectivity filter of a cardiac two-pore background K channel. Cardiovascular Research, 2003, 58, 46-54.	1.8	12
95	Two novel toxins from the Amazonian scorpion Tityus cambridgei that block Kv1.3 and Shaker B K ⁺ -channels with distinctly different affinities. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2002, 1601, 123-131.	1.1	74
96	Multiple Binding Sites for Melatonin on Kv1.3. Biophysical Journal, 2001, 80, 1280-1297.	0.2	17
97	Effects of Toxins Pi2 and Pi3 on Human T Lymphocyte Kv1.3 Channels: The Role of Glu7 and Lys24. Journal of Membrane Biology, 2001, 179, 13-25.	1.0	35
98	Blockage of Human T Lymphocyte Kv1.3 Channels by Pi1, a Novel Class of Scorpion Toxin. Biochemical and Biophysical Research Communications, 2000, 278, 34-37.	1.0	25
99	Pandinus imperator Scorpion Venom Blocks Voltage-Gated K ⁺ Channels in Human Lymphocytes. Biochemical and Biophysical Research Communications, 1998, 242, 621-625.	1.0	21
100	Ionic Conductances in Chicken Osteoclasts. , 1998, , 236-245.		0
101	Immunosuppressors Inhibit Voltage-Gated Potassium Channels in Human Peripheral Blood Lymphocytes. Biochemical and Biophysical Research Communications, 1996, 221, 254-258.	1.0	22
102	Assembly and suppression of endogenous Kv1.3 channels in human T cells.. Journal of General Physiology, 1996, 107, 409-420.	0.9	30
103	Plasma-membrane-Bound macromolecules are dynamically aggregated to form non-random codistribution patterns of selected functional elements. Do pattern recognition processes govern antigen presentation and intercellular interactions?. Journal of Molecular Recognition, 1995, 8, 237-246.	1.1	8
104	Ion-channel activities regulate transmembrane signaling in thymocyte apoptosis and T-cell activation. Immunology Letters, 1995, 44, 91-95.	1.1	24
105	C-type inactivation of a voltage-gated K ⁺ channel occurs by a cooperative mechanism. Biophysical Journal, 1995, 69, 896-903.	0.2	160
106	Peripheral Blood Lymphocytes Display Reduced K ⁺ Channel Activity in Aged Humans. Biochemical and Biophysical Research Communications, 1994, 199, 519-524.	1.0	8
107	A Ca ²⁺ -dependent K ⁺ -channel in freshly isolated and cultured chick osteoclasts. Biochimica Et Biophysica Acta - Biomembranes, 1993, 1149, 63-72.	1.4	12
108	Biphasic Effect of Extracellular ATP on the Membrane Potential of Mouse Thymocytes. Biochemical and Biophysical Research Communications, 1993, 191, 378-384.	1.0	12

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109	Effect of cyclosporin A on the membrane potential and Ca ²⁺ level of human lymphoid cell lines and mouse thymocytes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1990, 1019, 159-165.	0.5	20