

Dirk J Snyders

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75
papers

4,138
citations

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h-index

64
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80
ext. papers

4,403
ext. citations

6.4
avg, IF

5.05
L-index

#	Paper	IF	Citations
75	Class III antiarrhythmic agents have a lot of potential but a long way to go. Reduced effectiveness and dangers of reverse use dependence. <i>Circulation</i> , 1990 , 81, 686-90	16.7	532
74	A rapidly activating and slowly inactivating potassium channel cloned from human heart. Functional analysis after stable mammalian cell culture expression. <i>Journal of General Physiology</i> , 1993 , 101, 513-43 ³⁻⁴	23.2	232
73	Drug block of I(kr): model systems and relevance to human arrhythmias. <i>Journal of Cardiovascular Pharmacology</i> , 2001 , 38, 737-44	3.1	160
72	Heteromultimeric assembly of human potassium channels. Molecular basis of a transient outward current?. <i>Circulation Research</i> , 1993 , 72, 1326-36	15.7	154
71	Obligatory heterotetramerization of three previously uncharacterized Kv channel alpha-subunits identified in the human genome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 7986-91	11.5	142
70	Structure and function of cardiac potassium channels. <i>Cardiovascular Research</i> , 1999 , 42, 377-90	9.9	142
69	Stereoselective block of cardiac sodium channels by bupivacaine in guinea pig ventricular myocytes. <i>Circulation</i> , 1995 , 92, 3014-24	16.7	142
68	Stereoselective block of a human cardiac potassium channel (Kv1.5) by bupivacaine enantiomers. <i>Biophysical Journal</i> , 1995 , 69, 418-27	2.9	140
67	Rapid inactivation determines the rectification and [K ⁺] _o dependence of the rapid component of the delayed rectifier K ⁺ current in cardiac cells. <i>Circulation Research</i> , 1997 , 80, 782-9	15.7	131
66	Ibutilide, a methanesulfonanilide antiarrhythmic, is a potent blocker of the rapidly activating delayed rectifier K ⁺ current (IKr) in AT-1 cells. Concentration-, time-, voltage-, and use-dependent effects. <i>Circulation</i> , 1995 , 91, 1799-806	16.7	121
65	Quinidine delays IK activation in guinea pig ventricular myocytes. <i>Circulation Research</i> , 1988 , 62, 1055-8	15.7	116
64	A K ⁺ channel splice variant common in human heart lacks a C-terminal domain required for expression of rapidly activating delayed rectifier current. <i>Journal of Biological Chemistry</i> , 1998 , 273, 27231-5	5.4	113
63	Determinants of antiarrhythmic drug action. Electrostatic and hydrophobic components of block of the human cardiac hKv1.5 channel. <i>Circulation Research</i> , 1995 , 77, 575-83	15.7	111
62	Functional differences in Kv1.5 currents expressed in mammalian cell lines are due to the presence of endogenous Kv beta 2.1 subunits. <i>Journal of Biological Chemistry</i> , 1996 , 271, 2406-12	5.4	106
61	Molecular analysis of a binding site for quinidine in a human cardiac delayed rectifier K ⁺ channel. Role of S6 in antiarrhythmic drug binding. <i>Circulation Research</i> , 1996 , 78, 1105-14	15.7	97
60	The contribution of genes involved in potassium-recycling in the inner ear to noise-induced hearing loss. <i>Human Mutation</i> , 2006 , 27, 786-95	4.7	92
59	A novel mutation (T65P) in the PAS domain of the human potassium channel HERG results in the long QT syndrome by trafficking deficiency. <i>Journal of Biological Chemistry</i> , 2002 , 277, 48610-6	5.4	83

58	Electrophysiological and pharmacological correspondence between Kv4.2 current and rat cardiac transient outward current. <i>Cardiovascular Research</i> , 1997 , 33, 540-7	9.9	79
57	Gating of shaker-type channels requires the flexibility of S6 caused by prolines. <i>Journal of Biological Chemistry</i> , 2003 , 278, 50724-31	5.4	72
56	Class III antiarrhythmic effects of zatebradine. Time-, state-, use-, and voltage-dependent block of hKv1.5 channels. <i>Circulation</i> , 1996 , 94, 562-70	16.7	72
55	Gambierol, a toxin produced by the dinoflagellate <i>Gambierdiscus toxicus</i> , is a potent blocker of voltage-gated potassium channels. <i>Toxicon</i> , 2008 , 51, 974-83	2.8	71
54	Kv channel gating requires a compatible S4-S5 linker and bottom part of S6, constrained by non-interacting residues. <i>Journal of General Physiology</i> , 2008 , 132, 667-80	3.4	63
53	Effects of antiarrhythmic drugs on cloned cardiac voltage-gated potassium channels expressed in <i>Xenopus</i> oocytes. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2000 , 362, 22-31	3.4	60
52	Molecular biology of the voltage-gated potassium channels of the cardiovascular system. <i>Journal of Cardiovascular Electrophysiology</i> , 1993 , 4, 68-80	2.7	59
51	Molecular determinants of stereoselective bupivacaine block of hKv1.5 channels. <i>Circulation Research</i> , 1997 , 81, 1053-64	15.7	57
50	Block of human cardiac Kv1.5 channels by loratadine: voltage-, time- and use-dependent block at concentrations above therapeutic levels. <i>Cardiovascular Research</i> , 1997 , 35, 341-50	9.9	52
49	A polyether biotoxin binding site on the lipid-exposed face of the pore domain of Kv channels revealed by the marine toxin gambierol. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 9896-901	11.5	49
48	Electrically silent Kv subunits: their molecular and functional characteristics. <i>Physiology</i> , 2012 , 27, 73-84	9.8	49
47	Kv2.1 and silent Kv subunits underlie the delayed rectifier K ⁺ current in cultured small mouse DRG neurons. <i>American Journal of Physiology - Cell Physiology</i> , 2009 , 296, C1271-8	5.4	45
46	The S4-S5 linker of KCNQ1 channels forms a structural scaffold with the S6 segment controlling gate closure. <i>Journal of Biological Chemistry</i> , 2011 , 286, 717-25	5.4	43
45	Mechanism of block of a human cardiac potassium channel by terfenadine racemate and enantiomers. <i>British Journal of Pharmacology</i> , 1995 , 115, 267-74	8.6	42
44	Distinct domains of the voltage-gated K ⁺ channel Kv beta 1.3 beta-subunit affect voltage-dependent gating. <i>American Journal of Physiology - Cell Physiology</i> , 1998 , 274, C1485-95	5.4	41
43	Being flexible: the voltage-controllable activation gate of kv channels. <i>Frontiers in Pharmacology</i> , 2012 , 3, 168	5.6	40
42	KCNQ1 channels voltage dependence through a voltage-dependent binding of the S4-S5 linker to the pore domain. <i>Journal of Biological Chemistry</i> , 2011 , 286, 707-16	5.4	39
41	Role of the S6 C-terminus in KCNQ1 channel gating. <i>Journal of Physiology</i> , 2007 , 585, 325-37	3.9	37

40	Dual effect of phosphatidylinositol (4,5)-bisphosphate PIP(2) on Shaker K(+) [corrected] channels. <i>Journal of Biological Chemistry</i> , 2012 , 287, 36158-67	5.4	35
39	Molecular mechanism for depolarization-induced modulation of Kv channel closure. <i>Journal of General Physiology</i> , 2012 , 140, 481-93	3.4	34
38	Alinidine modifies the pacemaker current in sheep Purkinje fibers. <i>Pflugers Archiv European Journal of Physiology</i> , 1987 , 410, 83-91	4.6	30
37	Purification, molecular cloning and functional characterization of HelaTx1 (Heterometrus laoticus): the first member of a new EKTx subfamily. <i>Biochemical Pharmacology</i> , 2012 , 83, 1307-17	6	29
36	Kv3.1 uses a timely resurgent K(+) current to secure action potential repolarization. <i>Nature Communications</i> , 2015 , 6, 10173	17.4	28
35	Differential modulation of Kv4 kinetics by KCHIP1 splice variants. <i>Molecular and Cellular Neurosciences</i> , 2003 , 24, 357-66	4.8	27
34	Temperature and voltage dependence of sodium channel blocking and unblocking by O-demethyl encainide in isolated guinea pig myocytes. <i>Journal of Cardiovascular Pharmacology</i> , 1989 , 13, 826-35	3.1	26
33	Domain analysis of Kv6.3, an electrically silent channel. <i>Journal of Physiology</i> , 2005 , 568, 737-47	3.9	25
32	Mechanisms of block of a human cloned potassium channel by the enantiomers of a new bradycardic agent: S-16257-2 and S-16260-2. <i>British Journal of Pharmacology</i> , 1996 , 117, 1293-301	8.6	23
31	The ladder-shaped polyether toxin gambierol anchors the gating machinery of Kv3.1 channels in the resting state. <i>Journal of General Physiology</i> , 2013 , 141, 359-69	3.4	21
30	Evidence for multiple open and inactivated states of the hKv1.5 delayed rectifier. <i>Biophysical Journal</i> , 1998 , 75, 183-95	2.9	21
29	Functional effects of a KCNQ1 mutation associated with the long QT syndrome. <i>Cardiovascular Research</i> , 2006 , 70, 466-74	9.9	20
28	Conserved negative charges in the N-terminal tetramerization domain mediate efficient assembly of Kv2.1 and Kv2.1/Kv6.4 channels. <i>Journal of Biological Chemistry</i> , 2009 , 284, 31625-34	5.4	19
27	Mutations throughout the S6 region of the hKv1.5 channel alter the stability of the activation gate. <i>American Journal of Physiology - Cell Physiology</i> , 2002 , 282, C161-71	5.4	19
26	The anticonvulsant retigabine suppresses neuronal K2-mediated currents. <i>Scientific Reports</i> , 2016 , 6, 35080	4.9	17
25	HERG mutation predicts short QT based on channel kinetics but causes long QT by heterotetrameric trafficking deficiency. <i>Cardiovascular Research</i> , 2005 , 67, 467-75	9.9	17
24	The electrically silent Kv6.4 subunit confers hyperpolarized gating charge movement in Kv2.1/Kv6.4 heterotetrameric channels. <i>PLoS ONE</i> , 2012 , 7, e37143	3.7	14
23	Coupling of voltage sensing to channel opening reflects intrasubunit interactions in kv channels. <i>Journal of General Physiology</i> , 2005 , 125, 71-80	3.4	14

22	Functional antagonism of voltage-gated K ⁺ channel β subunits in the developing brain ventricular system. <i>Development (Cambridge)</i> , 2016 , 143, 4249-4260	6.6	13
21	Benzocaine enhances and inhibits the K ⁺ current through a human cardiac cloned channel (Kv1.5). <i>Cardiovascular Research</i> , 1999 , 42, 510-20	9.9	13
20	The subfamily-specific interaction between Kv2.1 and Kv6.4 subunits is determined by interactions between the N- and C-termini. <i>PLoS ONE</i> , 2014 , 9, e98960	3.7	12
19	Kv3 channels contribute to the delayed rectifier current in small cultured mouse dorsal root ganglion neurons. <i>American Journal of Physiology - Cell Physiology</i> , 2012 , 303, C406-15	5.4	11
18	Voltage-gated delayed rectifier K ^v 1-subunits may serve as distinctive markers for enteroglial cells with different phenotypes in the murine ileum. <i>Neuroscience Letters</i> , 2009 , 461, 80-4	3.3	11
17	A Kv channel with an altered activation gate sequence displays both "fast" and "slow" activation kinetics. <i>American Journal of Physiology - Cell Physiology</i> , 2008 , 294, C1476-84	5.4	10
16	Modulation of Closed-State Inactivation in Kv2.1/Kv6.4 Heterotetramers as Mechanism for 4-AP Induced Potentiation. <i>PLoS ONE</i> , 2015 , 10, e0141349	3.7	9
15	The rate-dependent biophysical properties of the LQT1 H258R mutant are counteracted by a dominant negative effect on channel trafficking. <i>Journal of Molecular and Cellular Cardiology</i> , 2010 , 48, 1096-104	5.8	9
14	Independent movement of the voltage sensors in K2.1/K6.4 heterotetramers. <i>Scientific Reports</i> , 2017 , 7, 41646	4.9	6
13	Targeted deletion of the Kv6.4 subunit causes male sterility due to disturbed spermiogenesis. <i>Reproduction, Fertility and Development</i> , 2017 , 29, 1567-1575	1.8	5
12	Hydrophobic Drug/Toxin Binding Sites in Voltage-Dependent K and Na Channels. <i>Frontiers in Pharmacology</i> , 2020 , 11, 735	5.6	4
11	Voltage-sensor conformation shapes the intra-membrane drug binding site that determines gambierol affinity in Kv channels. <i>Neuropharmacology</i> , 2016 , 107, 160-167	5.5	4
10	Mutations in the S6 gate isolate a late step in the activation pathway and reduce 4-AP sensitivity in shaker K(v) channel. <i>Biophysical Journal</i> , 2014 , 106, 134-44	2.9	4
9	Determining the correct stoichiometry of Kv2.1/Kv6.4 heterotetramers, functional in multiple stoichiometrical configurations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 9365-9376	11.5	4
8	Dromedary immune response and specific Kv2.1 antibody generation using a specific immunization approach. <i>International Journal of Biological Macromolecules</i> , 2016 , 93, 167-171	7.9	3
7	The contribution of Kv2.2-mediated currents decreases during the postnatal development of mouse dorsal root ganglion neurons. <i>Physiological Reports</i> , 2016 , 4, e12731	2.6	3
6	Gambierol and n-alkanols inhibit Shaker Kv channel via distinct binding sites outside the K(+) pore. <i>Toxicon</i> , 2016 , 120, 57-60	2.8	3
5	Pharmacological Profile of the Sodium Current in Human Stem Cell-Derived Cardiomyocytes Compares to Heterologous Nav1.5+ β Model. <i>Frontiers in Pharmacology</i> , 2019 , 10, 1374	5.6	3

4	The resting membrane potential of hSC-CM in a syncytium is more hyperpolarised than that of isolated cells. <i>Channels</i> , 2021 , 15, 239-252	3	3
3	Alkanols inhibit voltage-gated K(+) channels via a distinct gating modifying mechanism that prevents gate opening. <i>Scientific Reports</i> , 2015 , 5, 17402	4.9	2
2	Optical Mapping in hiPSC-CM and Zebrafish to Resolve Cardiac Arrhythmias. <i>Hearts</i> , 2020 , 1, 181-199	0.6	1
1	The Mechanism of Action of Microalgal Toxins Interacting with NaV and KV Channels 2014 , 3-34		