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Evolutionarily conserved intracellular gate of voltage-dependent sodium channels

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#	Paper	IF	Citations
38	A Single Amino Acid Deletion (E1502) in the S6 Segment of CaV2.1 Domain III Associated with Congenital Ataxia Increases Channel Activity and Promotes Ca ²⁺ Influx. <i>PLoS ONE</i> , 2015 , 10, e0146035	3.7	16
37	Selectivity filters and cysteine-rich extracellular loops in voltage-gated sodium, calcium, and NALCN channels. <i>Frontiers in Physiology</i> , 2015 , 6, 153	4.6	36
36	Voltage-Gated Sodium Channels: Structure, Function, Pharmacology, and Clinical Indications. <i>Journal of Medicinal Chemistry</i> , 2015 , 58, 7093-118	8.3	220
35	Calcium ions open a selectivity filter gate during activation of the MthK potassium channel. <i>Nature Communications</i> , 2015 , 6, 8342	17.4	27
34	Structural model of the open-closed-inactivated cycle of prokaryotic voltage-gated sodium channels. <i>Journal of General Physiology</i> , 2015 , 145, 5-16	3.4	41
33	Bacterial voltage-gated sodium channels (BacNa(V)s) from the soil, sea, and salt lakes enlighten molecular mechanisms of electrical signaling and pharmacology in the brain and heart. <i>Journal of Molecular Biology</i> , 2015 , 427, 3-30	6.5	55
32	Congruent pattern of accessibility identifies minimal pore gate in a non-symmetric voltage-gated sodium channel. <i>Nature Communications</i> , 2016 , 7, 11608	17.4	6
31	Voltage-Gated Sodium Channels: Evolutionary History and Distinctive Sequence Features. <i>Current Topics in Membranes</i> , 2016 , 78, 261-86	2.2	14
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29	Single amino acid deletion in transmembrane segment D4S6 of sodium channel Scn8a (Nav1.6) in a mouse mutant with a chronic movement disorder. <i>Neurobiology of Disease</i> , 2016 , 89, 36-45	7.5	18
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27	Interpreting the functional role of a novel interaction motif in prokaryotic sodium channels. <i>Journal of General Physiology</i> , 2017 , 149, 613-622	3.4	11
26	Small molecule modulation of voltage gated sodium channels. <i>Current Opinion in Structural Biology</i> , 2017 , 43, 156-162	8.1	8
25	Structures of closed and open states of a voltage-gated sodium channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E3051-E3060	11.5	93
24	Distinct modulation of inactivation by a residue in the pore domain of voltage-gated Na channels: mechanistic insights from recent crystal structures. <i>Scientific Reports</i> , 2018 , 8, 631	4.9	5
23	Sodium Channelopathies: From Molecular Physiology towards Medical Genetics. <i>Russian Journal of Genetics</i> , 2018 , 54, 45-56	0.6	
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21	Voltage-Gated Sodium Channels in Drug Discovery. 2018 ,		2
20	Gating modules of the AMPA receptor pore domain revealed by unnatural amino acid mutagenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 13358-13367	11.5	22
19	Structural basis of Scorpion toxin action on Na channels. <i>Science</i> , 2019 , 363,	33.3	81
18	Quantum Tunneling of Ions through the Closed Voltage-Gated Channels of the Biological Membrane: A Mathematical Model and Implications. <i>Quantum Reports</i> , 2019 , 1, 219-225	2.1	13
17	Epilepsy-Related Voltage-Gated Sodium Channelopathies: A Review. <i>Frontiers in Pharmacology</i> , 2020 , 11, 1276	5.6	16
16	Quantum Electrochemical Equilibrium: Quantum Version of the Goldman-Hodgkin-Katz Equation. <i>Quantum Reports</i> , 2020 , 2, 266-277	2.1	8
15	Membrane protein mediated bilayer communication in networks of droplet interface bilayers. <i>Communications Chemistry</i> , 2020 , 3, 77	6.3	5
14	Magnesium Ions Depolarize the Neuronal Membrane via Quantum Tunneling through the Closed Channels. <i>Quantum Reports</i> , 2020 , 2, 57-63	2.1	8
13	Pathological turret mutations in the cardiac sodium channel cause long-range pore disruption.		
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7	Voltage Clamp Fluorometry of P-Type ATPases. <i>Methods in Molecular Biology</i> , 2016 , 1377, 281-91	1.4	
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