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Structure-guided examination of the mechanogating mechanism of PIEZO2

DOI: 10.1073/pnas.1905985116

Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14260-14269.

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Version: 2024-04-27

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#	Paper	IF	Citations
44	Piezo Ion Channels in Cardiovascular Mechanobiology. <i>Trends in Pharmacological Sciences</i> , 2019 , 40, 956-970	13.0	60
43	Piezo2 integrates mechanical and thermal cues in vertebrate mechanoreceptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 17547-17555	11.5	23
42	A mechanism for the activation of the mechanosensitive Piezo1 channel by the small molecule Yoda1. <i>Nature Communications</i> , 2019 , 10, 4503	17.4	45
41	Discoveries in structure and physiology of mechanically activated ion channels. <i>Nature</i> , 2020 , 587, 567-576	56.4	84
40	An Internal Dial for Sensitivity and Gain of Rapid Mechanotransduction. <i>Neuron</i> , 2020 , 106, 361-363	13.9	
39	Peripheral Mechanobiology of Touch-Studies on Vertebrate Cutaneous Sensory Corpuscles. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	12
38	A Plug-and-Latch Mechanism for Gating the Mechanosensitive Piezo Channel. <i>Neuron</i> , 2020 , 106, 438-451	13.6	25
37	Mechanosensitive Ion Channels: Structural Features Relevant to Mechanotransduction Mechanisms. <i>Annual Review of Neuroscience</i> , 2020 , 43, 207-229	17	58
36	Inactivation Kinetics and Mechanical Gating of Piezo1 Ion Channels Depend on Subdomains within the Cap. <i>Cell Reports</i> , 2020 , 30, 870-880.e2	10.6	22
35	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	5	20
34	Transcriptional signatures regulated by TRPC1/C4-mediated Background Ca entry after pressure-overload induced cardiac remodelling. <i>Progress in Biophysics and Molecular Biology</i> , 2021 , 159, 86-104	4.7	0
33	Molecular Pathogenesis of Merkel Cell Carcinoma. <i>Annual Review of Pathology: Mechanisms of Disease</i> , 2021 , 16, 69-91	34	21
32	Drosophila Mechanosensory Transduction. <i>Trends in Neurosciences</i> , 2021 , 44, 323-335	13.3	11
31	An intrinsically disordered intracellular domain of PIEZO2 is required for force-from-filament activation of the channel		
30	Structure, kinetic properties and biological function of mechanosensitive Piezo channels. <i>Cell and Bioscience</i> , 2021 , 11, 13	9.8	27
29	Stretch and poke stimulation for characterizing mechanically activated ion channels. <i>Methods in Enzymology</i> , 2021 , 654, 225-253	1.7	1
28	Advancing mechanobiology by performing whole-cell patch clamp recording on mechanosensitive cells subjected simultaneously to dynamic stretch events. <i>iScience</i> , 2021 , 24, 102041	6.1	2

27	Trends in Piezo Channel Research Over the Past Decade: A Bibliometric Analysis. <i>Frontiers in Pharmacology</i> , 2021 , 12, 668714	5.6	3
26	Structural Designs and Mechanogating Mechanisms of the Mechanosensitive Piezo Channels. <i>Trends in Biochemical Sciences</i> , 2021 , 46, 472-488	10.3	16
25	The Form and Function of PIEZO2. <i>Annual Review of Biochemistry</i> , 2021 , 90, 507-534	29.1	11
24	Selective Chemical Activation of Piezo1 in Leukemia Cell Membrane: Single Channel Analysis. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
23	Unravelling the genetic causes of multiple malformation syndromes: A whole exome sequencing study of the Cypriot population. <i>PLoS ONE</i> , 2021 , 16, e0253562	3.7	0
22	Cutaneous pain in disorders affecting peripheral nerves. <i>Neuroscience Letters</i> , 2021 , 765, 136233	3.3	1
21	Crowding-induced opening of the mechanosensitive Piezo1 channel in silico. <i>Communications Biology</i> , 2021 , 4, 84	6.7	15
20	Roles of mechanosensitive channel Piezo1/2 proteins in skeleton and other tissues. <i>Bone Research</i> , 2021 , 9, 44	13.3	6
19	A Piezo1 Open State Reveals a Multi-fenestrated Ion Permeation Pathway.		
18	Piezo2, a pressure sensitive channel is expressed in select neurons of the mouse brain: a putative mechanism for synchronizing neural networks by transducing intracranial pressure pulses.		3
17	Molecular Biology of the Nociceptor/Transduction. 2020 , 88-119		
16	Emerging Piezo1 signaling in inflammation and atherosclerosis; a potential therapeutic target.. <i>International Journal of Biological Sciences</i> , 2022 , 18, 923-941	11.2	1
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13	Nobel somatosensations and pain.. <i>Pflugers Archiv European Journal of Physiology</i> , 2022 , 474, 405	4.6	0
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10	Physics of mechanotransduction by Piezo ion channels.. <i>Journal of General Physiology</i> , 2022 , 154,	3.4	0

9	Piezo channels in the urinary system. <i>Experimental and Molecular Medicine</i> ,	12.8	2
8	Rearrangements of Piezo1 blade domains correlate with pore opening.		1
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