

A lever-like transduction pathway for long-distance chemomechanosensitive Piezo1 channel

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Tissue engineering the cancer microenvironmentâ€”challenges and opportunities. <i>Biophysical Reviews</i> , 2018, 10, 1695-1711.	1.5	47
2	Mechanically activated ion channel PIEZO1 is required for lymphatic valve formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12817-12822.	3.3	188
3	A Feedforward Mechanism Mediated by Mechanosensitive Ion Channel PIEZO1 and Tissue Mechanics Promotes Glioma Aggression. <i>Neuron</i> , 2018, 100, 799-815.e7.	3.8	241
4	Probing the gating mechanism of the mechanosensitive channel Piezo1 with the small molecule Yoda1. <i>Nature Communications</i> , 2018, 9, 2029.	5.8	104
5	Advances in understanding the pathogenesis of red cell membrane disorders. <i>British Journal of Haematology</i> , 2019, 187, 13-24.	1.2	64
6	Structure-guided examination of the mechanogating mechanism of PIEZO2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14260-14269.	3.3	52
7	Piezo Ion Channels in Cardiovascular Mechanobiology. <i>Trends in Pharmacological Sciences</i> , 2019, 40, 956-970.	4.0	114
8	Force-induced conformational changes in PIEZO1. <i>Nature</i> , 2019, 573, 230-234.	13.7	216
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10	Force Sensing by Piezo Channels in Cardiovascular Health and Disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019, 39, 2228-2239.	1.1	147
11	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.	3.3	42
12	A mechanism for the activation of the mechanosensitive Piezo1 channel by the small molecule Yoda1. <i>Nature Communications</i> , 2019, 10, 4503.	5.8	136
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15	Agonist-induced Piezo1 activation suppresses migration of transformed fibroblasts. <i>Biochemical and Biophysical Research Communications</i> , 2019, 514, 173-179.	1.0	46
16	Emerging concepts of shear stress in placental development and function. <i>Molecular Human Reproduction</i> , 2019, 25, 329-339.	1.3	22
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18	The mechanosensitive Piezo1 channel: a three-bladed propeller-like structure and a lever-like mechanogating mechanism. <i>FEBS Journal</i> , 2019, 286, 2461-2470.	2.2	70

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19	Study on the mechanism of excessive apoptosis of nucleus pulposus cells induced by shRNA against Piezo1 under abnormal mechanical stretch stress. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 3989-3997.	1.2	17
20	Levering Mechanically Activated Piezo Channels for Potential Pharmacological Intervention. <i>Annual Review of Pharmacology and Toxicology</i> , 2020, 60, 195-218.	4.2	85
21	Chemical activation of the Piezo1 channel drives mesenchymal stem cell migration via inducing ATP release and activation of P2 receptor purinergic signaling. <i>Stem Cells</i> , 2020, 38, 410-421.	1.4	60
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