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Luminal Mg^{2+} , a key factor controlling RYR2-mediated Ca^{2+} release: cytoplasmic and luminal regulation modeled in a tetrameric channel

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Journal of General Physiology, 2008, 132, 429-46.

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#	Paper	IF	Citations
59	Modulation of the local SR Ca ²⁺ release by intracellular Mg ²⁺ in cardiac myocytes. <i>Journal of General Physiology</i> , 2008 , 132, 721-30	3.4	24
58	Luminal Ca ²⁺ activation of cardiac ryanodine receptors by luminal and cytoplasmic domains. <i>European Biophysics Journal</i> , 2009 , 39, 19-26	1.9	25
57	Ca ²⁺ channels on the move. <i>Biochemistry</i> , 2009 , 48, 12062-80	3.2	34
56	Regulation of RyR Channel Gating by Ca ²⁺ , Mg ²⁺ and ATP. <i>Current Topics in Membranes</i> , 2010 , 66, 69-89	2.2	11
55	A mechanism of ryanodine receptor modulation by FKBP12/12.6, protein kinase A, and K201. <i>Cardiovascular Research</i> , 2010 , 85, 68-78	9.9	29
54	Challenging quantal calcium signaling in cardiac myocytes. <i>Journal of General Physiology</i> , 2010 , 136, 581-34	3.4	6
53	Modulation of cardiac ryanodine receptor channels by alkaline earth cations. <i>PLoS ONE</i> , 2011 , 6, e26693	3.7	15
52	Probing cationic selectivity of cardiac calsequestrin and its CPVT mutants. <i>Biochemical Journal</i> , 2011 , 435, 391-9	3.8	23
51	Cellular magnesium homeostasis. <i>Archives of Biochemistry and Biophysics</i> , 2011 , 512, 1-23	4.1	315
50	Reciprocal dihydropyridine and ryanodine receptor interactions in skeletal muscle activation. <i>Journal of Muscle Research and Cell Motility</i> , 2011 , 32, 171-202	3.5	100
49	Ryanodine receptor current amplitude controls Ca ²⁺ sparks in cardiac muscle. <i>Circulation Research</i> , 2012 , 111, 28-36	15.7	45
48	Local control in cardiac E-C coupling. <i>Journal of Molecular and Cellular Cardiology</i> , 2012 , 52, 298-303	5.8	48
47	Luminal Ca ²⁺ controls activation of the cardiac ryanodine receptor by ATP. <i>Journal of General Physiology</i> , 2012 , 140, 93-108	3.4	32
46	Modulation of cellular Mg ²⁺ content in cardiac cells by β -adrenoceptor stimulation and anti-arrhythmic agents. <i>Recent Patents on Biotechnology</i> , 2012 , 6, 212-22	2.2	2
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44	Proteins within the intracellular calcium store determine cardiac RyR channel activity and cardiac output. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2012 , 39, 477-84	3	18
43	How does the ryanodine receptor in the ventricular myocyte wake up: by a single or by multiple open L-type Ca ²⁺ channels?. <i>European Biophysics Journal</i> , 2012 , 41, 27-39	1.9	9

42	The structure and functioning of the couplon in the mammalian cardiomyocyte. <i>Protoplasma</i> , 2012 , 249 Suppl 1, S31-8	3.4	19
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40	Magnesium homeostasis in Mammalian cells. <i>Metal Ions in Life Sciences</i> , 2013 , 12, 69-118	2.6	17
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38	Superresolution modeling of calcium release in the heart. <i>Biophysical Journal</i> , 2014 , 107, 3018-3029	2.9	66
37	Structural and Molecular Bases of Sarcoplasmic Reticulum Ion Channel Function. 2014 , 55-69		2
36	Differences in the regulation of RyR2 from human, sheep, and rat by Ca ²⁺ and Mg ²⁺ in the cytoplasm and in the lumen of the sarcoplasmic reticulum. <i>Journal of General Physiology</i> , 2014 , 144, 263-74	3.4	17
35	Examination of the Effects of Heterogeneous Organization of RyR Clusters, Myofibrils and Mitochondria on Ca ²⁺ Release Patterns in Cardiomyocytes. <i>PLoS Computational Biology</i> , 2015 , 11, e1004417	5.1	34
34	Ryanodine receptor gating controls generation of diastolic calcium waves in cardiac myocytes. <i>Journal of General Physiology</i> , 2015 , 145, 489-511	3.4	11
33	Neural depolarization triggers Mg ²⁺ influx in rat hippocampal neurons. <i>Neuroscience</i> , 2015 , 310, 731-41	3.9	11
32	Regulation of RYR2 by sarcoplasmic reticulum Ca(2+). <i>Clinical and Experimental Pharmacology and Physiology</i> , 2015 , 42, 720-6	3	5
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28	Effects of Modified Parvalbumin EF-Hand Motifs on Cardiac Myocyte Contractile Function. <i>Biophysical Journal</i> , 2016 , 110, 2094-105	2.9	8
27	Cardiac ryanodine receptor: Selectivity for alkaline earth metal cations points to the EF-hand nature of luminal binding sites. <i>Bioelectrochemistry</i> , 2016 , 109, 49-56	5.6	6
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22	Structural and Molecular Bases of Sarcoplasmic Reticulum Ion Channel Function. 2018 , 60-65		
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18	Magnesium: A Magic Bullet for Cardiovascular Disease in Chronic Kidney Disease?. <i>Nutrients</i> , 2019 , 11,	6.7	28
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16	Luminal addition of non-permeant Eu interferes with luminal Ca regulation of the cardiac ryanodine receptor. <i>Bioelectrochemistry</i> , 2020 , 132, 107449	5.6	2
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11	Simulating cardiac Ca release units: effects of RyR cluster size and Ca buffers on diastolic Ca leak. <i>Pflügers Archiv European Journal of Physiology</i> , 2021 , 473, 435-446	4.6	1
10	In silico simulations reveal that RYR distribution affects the dynamics of calcium release in cardiac myocytes. <i>Journal of General Physiology</i> , 2021 , 153,	3.4	3
9	Calcium-release channels: structure and function of IP receptors and ryanodine receptors. <i>Physiological Reviews</i> , 2022 , 102, 209-268	47.9	9
8	The central domain of cardiac ryanodine receptor governs channel activation, regulation, and stability. <i>Journal of Biological Chemistry</i> , 2020 , 295, 15622-15635	5.4	4
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5	Calcium Signaling in Cardiomyocyte Models With Realistic Geometries. 2014 , 331-340		
4	Calcium Signaling in Cardiomyocyte Models With Realistic Geometries. 2018 , 314-324		1
3	Recruiting RyRs to open in a Ca ²⁺ release unit: Single-RyR gating properties make RyR group dynamics.		
2	Structural Insight Into Ryanodine Receptor Channelopathies. <i>Frontiers in Pharmacology</i> , 2022 , 13,	5.6	1
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