Ruiwu Wang

List of Publications by Year
in descending order

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43 papers	2,545 citations	304602 22 h-index	254106 43 g-index
44 all docs	44 docs citations	44 times ranked	2313 citing authors

#	Article	IF	Citations
1	RyR2 mutations linked to ventricular tachycardia and sudden death reduce the threshold for store-overload-induced Ca2+ release (SOICR). Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13062-13067.	3.3	407
2	Enhanced Store Overloadâ€“Induced Ca 2+ Release and Channel Sensitivity to Luminal Ca 2+ Activation Are Common Defects of RyR2 Mutations Linked to Ventricular Tachycardia and Sudden Death. Circulation Research, 2005, 97, 1173-1181.	2.0	322
3	Structural basis for the gating mechanism of the type 2 ryanodine receptor RyR2. Science, 2016, 354, .	6.0	221
4	Carvedilol and its new analogs suppress arrhythmogenic store overloadâ€“induced Ca2+ release. Nature Medicine, 2011, 17, 1003-1009.	15.2	216
5	The ryanodine receptor store-sensing gate controls Ca2+ waves and Ca2+-triggered arrhythmias. Nature Medicine, 2014, 20, 184-192.	15.2	172
6	Loss of luminal Ca ²⁺ activation in the cardiac ryanodine receptor is associated with ventricular fibrillation and sudden death. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18309-18314.	3.3	132
7	Modulation of cardiac ryanodine receptor 2 by calmodulin. Nature, 2019, 572, 347-351.	13.7	110
8	Removal of FKBP12.6 Does Not Alter the Conductance and Activation of the Cardiac Ryanodine Receptor or the Susceptibility to Stress-induced Ventricular Arrhythmias. Journal of Biological Chemistry, 2007, 282, 34828-34838.	1.6	94
9	Cardiac ryanodine receptor calcium release deficiency syndrome. Science Translational Medicine, 2021, 13, .	5.8	68
10	Phospholamban Knockout Breaks Arrhythmogenic Ca ²⁺ Waves and Suppresses Catecholaminergic Polymorphic Ventricular Tachycardia in Mice. Circulation Research, 2013, 113, 517-526.	2.0	65
11	Arrhythmogenic Calmodulin Mutations Affect the Activation and Termination of Cardiac Ryanodine Receptor-mediated Ca2+ Release. Journal of Biological Chemistry, 2015, 290, 26151-26162.	1.6	56
12	Localization of the Dantrolene-binding Sequence near the FK506-binding Protein-binding Site in the Three-dimensional Structure of the Ryanodine Receptor. Journal of Biological Chemistry, 2011, 286, 12202-12212.	1.6	47
13	A novel RYR2 loss-of-function mutation (I4855M) is associated with left ventricular non-compaction and atypical catecholaminergic polymorphic ventricular tachycardia. Journal of Electrocardiology, 2017, 50, 227-233.	0.4	47
14	Limiting RyR2 Open Time Prevents Alzheimerâ€™s Disease-Related Neuronal Hyperactivity and Memory Loss but Not Î²-Amyloid Accumulation. Cell Reports, 2020, 32, 108169.	2.9	41
15	The EF-hand Ca2+ Binding Domain Is Not Required for Cytosolic Ca2+ Activation of the Cardiac Ryanodine Receptor. Journal of Biological Chemistry, 2016, 291, 2150-2160.	1.6	40
16	The Arrhythmogenic Calmodulin p.Phe142Leu Mutation Impairs C-domain Ca2+ Binding but Not Calmodulin-dependent Inhibition of the Cardiac Ryanodine Receptor. Journal of Biological Chemistry, 2017, 292, 1385-1395.	1.6	35
17	De novo ITPR1 variants are a recurrent cause of early-onset ataxia, acting via loss of channel function. European Journal of Human Genetics, 2018, 26, 1623-1634.	1.4	32
18	Linking the heart and the brain: Neurodevelopmental disorders in patients with catecholaminergic polymorphic ventricular tachycardia. Heart Rhythm, 2019, 16, 220-228.	0.3	29

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19	Suppression of ryanodine receptor function prolongs Ca2+ release refractoriness and promotes cardiac alternans in intact hearts. Biochemical Journal, 2016, 473, 3951-3964.	1.7	28
20	Clinical and Functional Characterization of Ryanodine Receptor 2 Variants Implicated in Calcium-Release Deficiency Syndrome. JAMA Cardiology, 2022, 7, 84.	3.0	28
21	Generation and Characterization of a Mouse Model Harboring the Exon-3 Deletion in the Cardiac Ryanodine Receptor. PLoS ONE, 2014, 9, e95615.	1.1	27
22	The cardiac ryanodine receptor, but not sarcoplasmic reticulum Ca2+-ATPase, is a major determinant of Ca2+ alternans in intact mouse hearts. Journal of Biological Chemistry, 2018, 293, 13650-13661.	1.6	27
23	Identification of loss-of-function RyR2 mutations associated with idiopathic ventricular fibrillation and sudden death. Bioscience Reports, 2021, 41, .	1.1	23
24	Enhanced Cytosolic Ca2+ Activation Underlies a Common Defect of Central Domain Cardiac Ryanodine Receptor Mutations Linked to Arrhythmias. Journal of Biological Chemistry, 2016, 291, 24528-24537.	1.6	22
25	Distribution and Function of Cardiac Ryanodine Receptor Clusters in Live Ventricular Myocytes. Journal of Biological Chemistry, 2015, 290, 20477-20487.	1.6	21
26	Pathogenic mechanism of a catecholaminergic polymorphic ventricular tachycardia causing-mutation in cardiac calcium release channel RyR2. Journal of Molecular and Cellular Cardiology, 2018, 117, 26-35.	0.9	21
27	Infanticide vs. inherited cardiac arrhythmias. Europace, 2021, 23, 441-450.	0.7	21
28	Human RyR2 (Ryanodine Receptor 2) Loss-of-Function Mutations. Circulation: Arrhythmia and Electrophysiology, 2021, 14, e010013.	2.1	18
29	Roles of the NH2-terminal Domains of Cardiac Ryanodine Receptor in Ca2+ Release Activation and Termination. Journal of Biological Chemistry, 2015, 290, 7736-7746.	1.6	17
30	Reduced threshold for store overload-induced Ca2+ release is a common defect of RyR1 mutations associated with malignant hyperthermia and central core disease. Biochemical Journal, 2017, 474, 2749-2761.	1.7	17
31	Ca 2+ -CaM Dependent Inactivation of RyR2 Underlies Ca 2+ Alternans in Intact Heart. Circulation Research, 2021, 128, e63-e83.	2.0	17
32	Role of Cys3602 in the function and regulation of the cardiac ryanodine receptor. Biochemical Journal, 2015, 467, 177-190.	1.7	15
33	Provocation Testing and Therapeutic Response in a Newly Described Channelopathy: RyR2 Calcium Release Deficiency Syndrome. Circulation Genomic and Precision Medicine, 2022, 15, CIRCGEN121003589.	1.6	15
34	The central domain of cardiac ryanodine receptor governs channel activation, regulation, and stability. Journal of Biological Chemistry, 2020, 295, 15622-15635.	1.6	13
35	Molecular Mechanism of Conductance Enhancement in Narrow Cation-Selective Membrane Channels. Journal of Physical Chemistry Letters, 2018, 9, 3497-3502.	2.1	12
36	Role of cardiac ryanodine receptor calmodulinâ€binding domains in mediating the action of arrhythmogenic calmodulin Nâ€domain mutation N54I. FEBS Journal, 2020, 287, 2256-2280.	2.2	12

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37	CPVT-associated cardiac ryanodine receptor mutation G357S with reduced penetrance impairs Ca2+ release termination and diminishes protein expression. PLoS ONE, 2017, 12, e0184177.	1.1	12
38	Subcellular localization of hippocampal ryanodine receptor 2 and its role in neuronal excitability and memory. Communications Biology, 2022, 5, 183.	2.0	12
39	RyR2 disease mutations at the C-terminal domain intersubunit interface alter closed-state stability and channel activation. Journal of Biological Chemistry, 2021, 297, 100808.	1.6	7
40	A gainâ€ofâ€function mutation in the ITPR1 gating domain causes male infertility in mice. Journal of Cellular Physiology, 2022, 237, 3305-3316.	2.0	7
41	The Cytoplasmic Region of Inner Helix S6 Is an Important Determinant of Cardiac Ryanodine Receptor Channel Gating. Journal of Biological Chemistry, 2016, 291, 26024-26034.	1.6	6
42	Genetically and pharmacologically limiting RyR2 open time prevents neuronal hyperactivity of hippocampal CA1 neurons in brain slices of 5xFAD mice. Neuroscience Letters, 2021, 758, 136011.	1.0	6
43	The H29D Mutation Does Not Enhance Cytosolic Ca2+ Activation of the Cardiac Ryanodine Receptor. PLoS ONE, 2015, 10, e0139058.	1.1	4