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	Clinical and Functional Characterization of Ryanodine Receptor 2 Variants Implicated in Calcium-Release Deficiency Syndrome. JAMA Cardiology, 2022, 7, 84.	3.0	28
2	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
3	Subcellular localization of hippocampal ryanodine receptor 2 and its role in neuronal excitability and memory. Communications Biology, 2022, 5, 183.	2.0	12
4	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
5	Infanticide vs. inherited cardiac arrhythmias. Europace, 2021, 23, 441-450.	0.7	21
6	Ca 2+ -CaM Dependent Inactivation of RyR2 Underlies Ca 2+ Alternans in Intact Heart. Circulation Research, 2021, 128, e63-e83.	2.0	17
7	Cardiac ryanodine receptor calcium release deficiency syndrome. Science Translational Medicine, 2021, 13, .	5.8	68
8	Identification of loss-of-function RyR2 mutations associated with idiopathic ventricular fibrillation and sudden death. Bioscience Reports, 2021, 41, .	1.1	23
9	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
10	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
11	Human RyR2 (Ryanodine Receptor 2) Loss-of-Function Mutations. Circulation: Arrhythmia and Electrophysiology, 2021, 14, e010013.	2.1	18
12	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
13	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
14	The central domain of cardiac ryanodine receptor governs channel activation, regulation, and stability. Journal of Biological Chemistry, 2020, 295, 15622-15635.	1.6	13
15	Modulation of cardiac ryanodine receptor 2 by calmodulin. Nature, 2019, 572, 347-351.	13.7	110
16	Linking the heart and the brain: Neurodevelopmental disorders in patients with catecholaminergic polymorphic ventricular tachycardia. Heart Rhythm, 2019, 16, 220-228.	0.3	29
17	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
18	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

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19	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
20	Molecular Mechanism of Conductance Enhancement in Narrow Cation-Selective Membrane Channels. Journal of Physical Chemistry Letters, 2018, 9, 3497-3502.	2.1	12
21	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
22	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
23	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
24	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
25	Structural basis for the gating mechanism of the type 2 ryanodine receptor RyR2. Science, 2016, 354, .	6.0	221
26	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
27	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
28	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
29	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
30	The H29D Mutation Does Not Enhance Cytosolic Ca2+ Activation of the Cardiac Ryanodine Receptor. PLoS ONE, 2015, 10, e0139058.	1.1	4
31	Role of Cys3602 in the function and regulation of the cardiac ryanodine receptor. Biochemical Journal, 2015, 467, 177-190.	1.7	15
32	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
33	Distribution and Function of Cardiac Ryanodine Receptor Clusters in Live Ventricular Myocytes. Journal of Biological Chemistry, 2015, 290, 20477-20487.	1.6	21
34	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
35	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
36	The ryanodine receptor store-sensing gate controls Ca2+ waves and Ca2+-triggered arrhythmias. Nature Medicine, 2014, 20, 184-192.	15.2	172

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37	Phospholamban Knockout Breaks Arrhythmogenic Ca ²⁺ Waves and Suppresses Catecholaminergic Polymorphic Ventricular Tachycardia in Mice. Circulation Research, 2013, 113, 517-526.	2.0	65
38	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
39	Carvedilol and its new analogs suppress arrhythmogenic store overloadâ€“induced Ca2+ release. Nature Medicine, 2011, 17, 1003-1009.	15.2	216
40	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
41	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
42	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
43	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