Bum-Rak Choi

List of Publications by Year
in descending order

35 papers	1,765 citations	361413 20 h-index	377865 34 g-index
38 all docs	38 docs citations	38 times ranked	1662 citing authors

#	Article	IF	Citations
1	Ero1Î±-Dependent ERp44 Dissociation From RyR2 Contributes to Cardiac Arrhythmia. Circulation Research, 2022, 130, 711-724.	4.5	16
2	IL-18 mediates sickle cell cardiomyopathy and ventricular arrhythmias. Blood, 2021, 137, 1208-1218.	1.4	22
3	Interleukin-1Î², Oxidative Stress, and Abnormal Calcium Handling Mediate Diabetic Arrhythmic Risk. JACC Basic To Translational Science, 2021, 6, 42-52.	4.1	25
4	PKA phosphorylation underlies functional recruitment of sarcolemmal SK2 channels in ventricular myocytes from hypertrophic hearts. Journal of Physiology, 2020, 598, 2847-2873.	2.9	23
5	Human Cardiac Fibroblast Number and Activation State Modulate Electromechanical Function of hiPSC-Cardiomyocytes in Engineered Myocardium. Stem Cells International, 2020, 2020, 1-16.	2.5	18
6	Impact of ISK Voltage and Ca2+/Mg2+-Dependent Rectification on Cardiac Repolarization. Biophysical Journal, 2020, 119, 690-704.	0.5	5
7	Late I _{Na} Blocker GS967 Supresses Polymorphic Ventricular Tachycardia in a Transgenic Rabbit Model of Long QT Type 2. Circulation: Arrhythmia and Electrophysiology, 2020, 13, e006875.	4.8	11
8	Short-Long Heart Rate Variation Increases Dispersion of Action Potential Duration in Long QT Type 2 Transgenic Rabbit Model. Scientific Reports, 2019, 9, 14849.	3.3	6
9	LITAF (Lipopolysaccharide-Induced Tumor Necrosis Factor) Regulates Cardiac L-Type Calcium Channels by Modulating NEDD (Neural Precursor Cell Expressed Developmentally Downregulated Protein) 4-1 Ubiquitin Ligase. Circulation Genomic and Precision Medicine, 2019, 12, 407-420.	3.6	9
10	LITAF regulates action potential duration by modulating NEDD4â€1â€mediated degradation of Lâ€type calcium channels. FASEB Journal, 2019, 33, 824.19.	0.5	0
11	HuR-mediated SCN5A messenger RNA stability reduces arrhythmic risk in heart failure. Heart Rhythm, 2018, 15, 1072-1080.	0.7	15
12	Mechanisms linking Tâ€wave alternans to spontaneous initiation of ventricular arrhythmias in rabbit models of long QT syndrome. Journal of Physiology, 2018, 596, 1341-1355.	2.9	40
13	Pharmacological Modulation of Mitochondrial Ca2+ Content Regulates Sarcoplasmic Reticulum Ca2+ Release via Oxidation of the Ryanodine Receptor by Mitochondria-Derived Reactive Oxygen Species. Frontiers in Physiology, 2018, 9, 1831.	2.8	42
14	NCX-Mediated Subcellular Ca2+ Dynamics Underlying Early Afterdepolarizations in LQT2 Cardiomyocytes. Biophysical Journal, 2018, 115, 1019-1032.	0.5	17
15	Transient Outward K ⁺ Current (I _{to}) Underlies the Right Ventricular Initiation of Polymorphic Ventricular Tachycardia in a Transgenic Rabbit Model of Long-QT Syndrome Type 1. Circulation: Arrhythmia and Electrophysiology, 2018, 11, e005414.	4.8	15
16	SK Channel Enhancers Attenuate Ca ²⁺ -Dependent Arrhythmia in Hypertrophic Hearts by Regulating Mito-ROS-Dependent Oxidation and Activity of RyR.. Cardiovascular Research, 2017, 113, cvx005.	3.8	45
17	Spontaneous initiation of premature ventricular complexes and arrhythmias in type 2 long QT syndrome. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 311, H1470-H1484.	3.2	36
18	Associations of Prolonged QTc in Sickle Cell Disease. PLoS ONE, 2016, 11, e0164526.	2.5	20

#	Article	IF	Citations
19	Spatially Discordant Alternans and Arrhythmias in Tachypacing-Induced Cardiac Myopathy in Transgenic LQT1 Rabbits: The Importance of IKs and Ca2+ Cycling. PLoS ONE, 2015, 10, e0122754.	2.5	23
20	Complex excitation dynamics underlie polymorphic ventricular tachycardia in a transgenic rabbit model of long QT syndrome type 1. Heart Rhythm, 2015, 12, 220-228.	0.7	43
21	Hyperphosphorylation of RyRs Underlies Triggered Activity in Transgenic Rabbit Model of LQT2 Syndrome. Circulation Research, 2014, 115, 919-928.	4.5	64
22	Progesterone modulates SERCA2a expression and function in rabbit cardiomyocytes. American Journal of Physiology - Cell Physiology, 2014, 307, C1050-C1057.	4.6	16
23	RING Finger Protein RNF207, a Novel Regulator of Cardiac Excitation. Journal of Biological Chemistry, 2014, 289, 33730-33740.	3.4	38
24	Differential conditions for early afterâ€depolarizations and triggered activity in cardiomyocytes derived from transgenic LQT1 and LQT2 rabbits. Journal of Physiology, 2012, 590, 1171-1180.	2.9	104
25	Estradiol promotes sudden cardiac death in transgenic long QT type 2 rabbits while progesterone is protective. Heart Rhythm, 2012, 9, 823-832.	0.7	114
26	Electrophysiological studies of transgenic long QT type 1 and type 2 rabbits reveal genotype-specific differences in ventricular refractoriness and His conduction. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 299, H643-H655.	3.2	35
27	The aging rabbit heart as a model for cardiac aging. FASEB Journal, 2010, 24, 595.6.	0.5	0
28	Mechanisms of cardiac arrhythmias and sudden death in transgenic rabbits with long QT syndrome. Journal of Clinical Investigation, 2008, 118, 2246-59.	8.2	171
29	Spatially discordant voltage alternans cause wavebreaks in ventricular fibrillation. Heart Rhythm, 2007, 4, 1057-1068.	0.7	50
30	Adaptation of Cardiac Action Potential Durations to Stimulation History with Random Diastolic Intervals. Journal of Cardiovascular Electrophysiology, 2004, 15, 1188-1197.	1.7	29
31	Life Span of Ventricular Fibrillation Frequencies. Circulation Research, 2002, 91, 339-345.	4.5	76
32	Cytosolic Ca 2+ triggers early afterdepolarizations and torsade de pointes in rabbit hearts with type 2 long QT syndrome. Journal of Physiology, 2002, 543, 615-631.	2.9	219
33	Simultaneous maps of optical action potentials and calcium transients in guineaâ€pig hearts: mechanisms underlying concordant alternans. Journal of Physiology, 2000, 529, 171-188.	2.9	204
34	Enhanced Dispersion of Repolarization and Refractoriness in Transgenic Mouse Hearts Promotes Reentrant Ventricular Tachycardia. Circulation Research, 2000, 86, 396-407.	4.5	167
35	Optical mapping of atrioventricular node reveals a conduction barrier between atrial and nodal cells. American Journal of Physiology - Heart and Circulatory Physiology, 1998, 274, H829-H845.	3.2	36