

Eleonora Grandi

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

3,849
citations

147801

31
h-index

138484

58
g-index

77
all docs

77
docs citations

77
times ranked

3491
citing authors

#	ARTICLE	IF	CITATIONS
1	TGF- β 1-induced endothelial-mesenchymal transition: a potential contributor to fibrotic remodeling in atrial fibrillation?. <i>Journal of Clinical Investigation</i> , 2022, 132, .	8.2	8
2	Sex-specific Classification of Drug-Induced Torsade de Pointes Susceptibility Using Cardiac Simulations and Machine Learning. <i>Clinical Pharmacology and Therapeutics</i> , 2021, 110, 380-391.	4.7	22
3	Intracellular Na ⁺ Modulates Pacemaking Activity in Murine Sinoatrial Node Myocytes: An In Silico Analysis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5645.	4.1	13
4	Bidirectional flow of the funny current (I_{f}) during the pacemaking cycle in murine sinoatrial node myocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	14
5	Quantitative cross-species translators of cardiac myocyte electrophysiology: Model training, experimental validation, and applications. <i>Science Advances</i> , 2021, 7, eabg0927.	10.3	22
6	General Principles for the Validation of Proarrhythmia Risk Prediction Models: An Extension of the CiPA In Silico Strategy. <i>Clinical Pharmacology and Therapeutics</i> , 2020, 107, 102-111.	4.7	67
7	Atrial fibrillation in a dish: insights into atrial arrhythmogenesis from induced pluripotent stem cell-derived cardiomyocytes. <i>Cardiovascular Research</i> , 2020, 116, 1089-1091.	3.8	0
8	Mechanisms of Cav3-associated arrhythmia: Protein or microdomain dysfunction?. <i>International Journal of Cardiology</i> , 2020, 320, 97-99.	1.7	2
9	Populations of in silico myocytes and tissues reveal synergy of multiatrial K^{+} current block in atrial fibrillation. <i>British Journal of Pharmacology</i> , 2020, 177, 4497-4515.	5.4	23
10	GRK5 Controls SAP97-Dependent Cardiotoxic β 1 Adrenergic Receptor-CaMKII Signaling in Heart Failure. <i>Circulation Research</i> , 2020, 127, 796-810.	4.5	16
11	Hypokalemia Promotes Arrhythmia by Distinct Mechanisms in Atrial and Ventricular Myocytes. <i>Circulation Research</i> , 2020, 126, 889-906.	4.5	31
12	Quantitative systems models illuminate arrhythmia mechanisms in heart failure: Role of the Na ⁺ -Ca ²⁺ -Ca ²⁺ /calmodulin-dependent protein kinase II-reactive oxygen species feedback. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2019, 11, e1434.	6.6	4
13	A computational model of induced pluripotent stem cell derived cardiomyocytes incorporating experimental variability from multiple data sources. <i>Journal of Physiology</i> , 2019, 597, 4533-4564.	2.9	87
14	Computational modeling: What does it tell us about atrial fibrillation therapy?. <i>International Journal of Cardiology</i> , 2019, 287, 155-161.	1.7	24
15	Different paths, same destination: divergent action potential responses produce conserved cardiac fight-or-flight response in mouse and rabbit hearts. <i>Journal of Physiology</i> , 2019, 597, 3867-3883.	2.9	22
16	Antiarrhythmic mechanisms of beta blocker therapy. <i>Pharmacological Research</i> , 2019, 146, 104274.	7.1	58
17	Enhanced Depolarization Drive in Failing Rabbit Ventricular Myocytes. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2019, 12, e007061.	4.8	29
18	Transient outward K^{+} current can strongly modulate action potential duration and initiate alternans in the human atrium. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 316, H527-H542.	3.2	20

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19	Adenylyl cyclase 5 α -generated cAMP controls cerebral vascular reactivity during diabetic hyperglycemia. <i>Journal of Clinical Investigation</i> , 2019, 129, 3140-3152.	8.2	35
20	Keeping it short and (not so) simple: characterizing hERG kinetics with sinusoidal waves. <i>Journal of Physiology</i> , 2018, 596, 1783-1784.	2.9	1
21	Inward Rectifier Potassium Channels (Kir2.x) and Caveolin-3 Domain-Specific Interaction. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2018, 11, e005800.	4.8	29
22	Non-ion channel therapeutics for heart failure and atrial fibrillation: Are CaMKII inhibitors ready for clinical use?. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 121, 300-303.	1.9	12
23	Effects of Modulation of Small-Conductance Calcium-Activated Potassium Current on Atrial Electrophysiology and Arrhythmogenesis: A Population-Based Computational Study. <i>Biophysical Journal</i> , 2018, 114, 473a.	0.5	1
24	Editorial: Safety Pharmacology – Risk Assessment QT Interval Prolongation and Beyond. <i>Frontiers in Physiology</i> , 2018, 9, 678.	2.8	10
25	A Heart for Diversity: Simulating Variability in Cardiac Arrhythmia Research. <i>Frontiers in Physiology</i> , 2018, 9, 958.	2.8	66
26	Logistic regression analysis of populations of electrophysiological models to assess proarrhythmic risk. <i>MethodsX</i> , 2017, 4, 25-34.	1.6	53
27	Ser ¹⁹²⁸ phosphorylation by PKA stimulates the L-type Ca ²⁺ channel Ca _v 1.2 and vasoconstriction during acute hyperglycemia and diabetes. <i>Science Signaling</i> , 2017, 10, .	3.6	85
28	Predominant contribution of L-type Cav1.2 channel stimulation to impaired intracellular calcium and cerebral artery vasoconstriction in diabetic hyperglycemia. <i>Channels</i> , 2017, 11, 340-346.	2.8	16
29	FRET biosensor uncovers cAMP nano-domains at β^2 -adrenergic targets that dictate precise tuning of cardiac contractility. <i>Nature Communications</i> , 2017, 8, 15031.	12.8	166
30	Size matters, proportion too: coupling of experiments and theory reveals relative roles of K ⁺ channels in action potential stability. <i>Journal of Physiology</i> , 2017, 595, 2319-2320.	2.9	2
31	Quantitative analysis of the Ca ²⁺ -dependent regulation of delayed rectifier K ⁺ current <i>i_K</i> in rabbit ventricular myocytes. <i>Journal of Physiology</i> , 2017, 595, 2253-2268.	2.9	37
32	Revealing kinetics and state-dependent binding properties of IK _{Kur} -targeting drugs that maximize atrial fibrillation selectivity. <i>Chaos</i> , 2017, 27, 093918.	2.5	17
33	Potassium channels in the heart: structure, function and regulation. <i>Journal of Physiology</i> , 2017, 595, 2209-2228.	2.9	79
34	Potassium currents in the heart: functional roles in repolarization, arrhythmia and therapeutics. <i>Journal of Physiology</i> , 2017, 595, 2229-2252.	2.9	76
35	In Silico Assessment of Efficacy and Safety of IK _{Kur} Inhibitors in Chronic Atrial Fibrillation: Role of Kinetics and State-Dependence of Drug Binding. <i>Frontiers in Pharmacology</i> , 2017, 8, 799.	3.5	24
36	Applications of Dynamic Clamp to Cardiac Arrhythmia Research: Role in Drug Target Discovery and Safety Pharmacology Testing. <i>Frontiers in Physiology</i> , 2017, 8, 1099.	2.8	19

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37	Small-Conductance Ca ²⁺ -Activated K ⁺ Current in Atrial Fibrillation: Both Friend and FOE. Biophysical Journal, 2016, 110, 274a.	0.5	8
38	<i>In silico</i> prediction of drug therapy in catecholaminergic polymorphic ventricular tachycardia. Journal of Physiology, 2016, 594, 567-593.	2.9	35
39	Anti-arrhythmic strategies for atrial fibrillation. , 2016, 168, 126-142.		29
40	Atrial-selective targeting of arrhythmogenic phase-3 early afterdepolarizations in human myocytes. Journal of Molecular and Cellular Cardiology, 2016, 96, 63-71.	1.9	46
41	Ion Channels in the Heart. , 2015, 5, 1423-1464.		135
42	β ₂ -adrenergic effects on cardiac myofilaments and contraction in an integrated rabbit ventricular myocyte model. Journal of Molecular and Cellular Cardiology, 2015, 81, 162-175.	1.9	52
43	Na ⁺ channel function, regulation, structure, trafficking and sequestration. Journal of Physiology, 2015, 593, 1347-1360.	2.9	59
44	Slow [Na ⁺] _i Changes and Positive Feedback Between Membrane Potential and [Ca ²⁺] _i Underlie Intermittent Early Afterdepolarizations and Arrhythmias. Circulation: Arrhythmia and Electrophysiology, 2015, 8, 1472-1480.	4.8	31
45	Models of the Ventricular Action Potential in Health and Disease. , 2014, , 319-330.		3
46	A novel computational model of mouse myocyte electrophysiology to assess the synergy between Na ⁺ loading and CaMKII. Journal of Physiology, 2014, 592, 1181-1197.	2.9	96
47	CaMKII comes of age in cardiac health and disease. Frontiers in Pharmacology, 2014, 5, 154.	3.5	7
48	Nonequilibrium Reactivation of Na ⁺ Current Drives Early Afterdepolarizations in Mouse Ventricle. Circulation: Arrhythmia and Electrophysiology, 2014, 7, 1205-1213.	4.8	42
49	How does β ₂ -adrenergic signalling affect the transitions from ventricular tachycardia to ventricular fibrillation?. Europace, 2014, 16, 452-457.	1.7	21
50	CaMKII-dependent regulation of cardiac Na ⁺ homeostasis. Frontiers in Pharmacology, 2014, 5, 41.	3.5	39
51	β ₂ -adrenergic stimulation activates early afterdepolarizations transiently via kinetic mismatch of PKA targets. Journal of Molecular and Cellular Cardiology, 2013, 58, 153-161.	1.9	66
52	Post-translational modifications of the cardiac Na channel: contribution of CaMKII-dependent phosphorylation to acquired arrhythmias. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 305, H431-H445.	3.2	80
53	Ranolazine for Congenital and Acquired Late I _{Na} -Linked Arrhythmias. Circulation Research, 2013, 113, e50-e61.	4.5	79
54	Theoretical study of L-type Ca ²⁺ current inactivation kinetics during action potential repolarization and early afterdepolarizations. Journal of Physiology, 2012, 590, 4465-4481.	2.9	47

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55	Altered Excitation-Contraction Coupling in Human Chronic Atrial Fibrillation. <i>Journal of Atrial Fibrillation</i> , 2012, 4, 495.	0.5	4
56	Human Atrial Fibrillation: Insights From Computational Electrophysiological Models. <i>Trends in Cardiovascular Medicine</i> , 2011, 21, 145-150.	4.9	22
57	Reactive Oxygen Species-Activated Ca/Calmodulin Kinase II Is Required for Late I_{Na} Augmentation Leading to Cellular Na and Ca Overload. <i>Circulation Research</i> , 2011, 108, 555-565.	4.5	256
58	Late Sodium Current Contributes to the Reverse Rate-Dependent Effect of I_{Kr} Inhibition on Ventricular Repolarization. <i>Circulation</i> , 2011, 123, 1713-1720.	1.6	97
59	Human Atrial Action Potential and Ca^{2+} Model. <i>Circulation Research</i> , 2011, 109, 1055-1066.	4.5	368
60	Interplay of voltage and Ca-dependent inactivation of L-type Ca current. <i>Progress in Biophysics and Molecular Biology</i> , 2010, 103, 44-50.	2.9	33
61	A novel computational model of the human ventricular action potential and Ca transient. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 48, 112-121.	1.9	393
62	Ca/Calmodulin Kinase II Differentially Modulates Potassium Currents. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2009, 2, 285-294.	4.8	121
63	Theoretical investigation of action potential duration dependence on extracellular Ca^{2+} in human cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2009, 46, 332-342.	1.9	42
64	Calcium/Calmodulin-dependent Kinase II Regulation of Cardiac Ion Channels. <i>Journal of Cardiovascular Pharmacology</i> , 2009, 54, 180-187.	1.9	132
65	Induction of NO synthase 2 in ventricular cardiomyocytes incubated with a conventional bicarbonate dialysis bath. <i>Nephrology Dialysis Transplantation</i> , 2008, 23, 2192-2197.	0.7	15
66	Calcium and potassium changes during haemodialysis alter ventricular repolarization duration: in vivo and in silico analysis. <i>Nephrology Dialysis Transplantation</i> , 2007, 23, 1378-1386.	0.7	62
67	Patients with complex arrhythmias during and after haemodialysis suffer from different regimens of potassium removal. <i>Nephrology Dialysis Transplantation</i> , 2007, 23, 1415-1421.	0.7	88
68	Simulation of Ca-Calmodulin-Dependent Protein Kinase II on Rabbit Ventricular Myocyte Ion Currents and Action Potentials. <i>Biophysical Journal</i> , 2007, 93, 3835-3847.	0.5	99
69	In silico assessment of Y1795C and Y1795H SCN5A mutations: implication for inherited arrhythmogenic syndromes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 292, H56-H65.	3.2	23
70	Computer Simulation of Altered Sodium Channel Gating in Rabbit and Human Ventricular Myocytes. , 2007, , 120-128.		0
71	Cardiac response to hemodialysis with different cardiovascular tolerance: Heart rate variability and QT interval analysis. <i>Hemodialysis International</i> , 2006, 10, 287-293.	0.9	23