Elisa Passini

List of Publications by Year
in descending order

19	1,121	567144 15	752573 20
papers	citations	h-index	g-index

22	22	22	1064
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The virtual assay software for human in silico drug trials to augment drug cardiac testing. Journal of Computational Science, 2021, 52, 101202.	1.5	14
2	Cardiac transmembrane ion channels and action potentials: cellular physiology and arrhythmogenic behavior. Physiological Reviews, 2021, 101, 1083-1176.	13.1	87
3	Comparison of the Simulated Response of Three in Silico Human Stem Cell-Derived Cardiomyocytes Models and in Vitro Data Under 15 Drug Actions. Frontiers in Pharmacology, 2021, 12, 604713.	1.6	15
4	Applying the CiPA approach to evaluate cardiac proarrhythmia risk of some antimalarials used offâ€label in the first wave of COVIDâ€19. Clinical and Translational Science, 2021, 14, 1133-1146.	1.5	23
5	In Silico Identification of the Key Ionic Currents Modulating Human Pluripotent Stem Cell-Derived Cardiomyocytes Towards an Adult Phenotype. , 2021, , .		2
6	General Principles for the Validation of Proarrhythmia Risk Prediction Models: An Extension of the CiPA In Silico Strategy. Clinical Pharmacology and Therapeutics, 2020, 107, 102-111.	2.3	67
7	Combining an in silico proarrhythmic risk assay with a tPKPD model to predict QTc interval prolongation in the anesthetized guinea pig assay. Toxicology and Applied Pharmacology, 2020, 390, 114883.	1.3	6
8	All-Optical Electrophysiology Refines Populations of In Silico Human iPSC-CMs for Drug Evaluation. Biophysical Journal, 2020, 118, 2596-2611.	0.2	40
9	Human Purkinje in silico model enables mechanistic investigations into automaticity and pro-arrhythmic abnormalities. Journal of Molecular and Cellular Cardiology, 2020, 142, 24-38.	0.9	29
10	Simulation of the Effects of Extracellular Calcium Changes Leads to a Novel Computational Model of Human Ventricular Action Potential With a Revised Calcium Handling. Frontiers in Physiology, 2020, 11, 314.	1.3	26
11	Drugâ€induced shortening of the electromechanical window is an effective biomarker for in silico prediction of clinical risk of arrhythmias. British Journal of Pharmacology, 2019, 176, 3819-3833.	2.7	47
12	Blinded In Silico Drug Trial Reveals the Minimum Set of Ion Channels for Torsades de Pointes Risk Assessment. Frontiers in Pharmacology, 2019, 10, 1643.	1.6	26
13	Development, calibration, and validation of a novel human ventricular myocyte model in health, disease, and drug block. ELife, 2019, 8, .	2.8	131
14	Phenotypic variability in LQT3 human induced pluripotent stem cell-derived cardiomyocytes and their response to antiarrhythmic pharmacologic therapy: An in silico approach. Heart Rhythm, 2017, 14, 1704-1712.	0.3	54
15	Human In Silico Drug Trials Demonstrate Higher Accuracy than Animal Models in Predicting Clinical Pro-Arrhythmic Cardiotoxicity. Frontiers in Physiology, 2017, 8, 668.	1.3	227
16	Variability in cardiac electrophysiology: Using experimentally-calibrated populations of models to move beyond the single virtual physiological human paradigm. Progress in Biophysics and Molecular Biology, 2016, 120, 115-127.	1.4	141
17	Mechanisms of pro-arrhythmic abnormalities in ventricular repolarisation and anti-arrhythmic therapies in human hypertrophic cardiomyopathy. Journal of Molecular and Cellular Cardiology, 2016, 96, 72-81.	0.9	102
18	Recurrent intradialytic paroxysmal atrial fibrillation: hypotheses on onset mechanisms based on clinical data and computational analysis. Europace, 2014, 16, 396-404.	0.7	30

#	Article	IF	Citations
19	Human Atrial Cell Models to Analyse Haemodialysis-Related Effects on Cardiac Electrophysiology: Work in Progress. Computational and Mathematical Methods in Medicine, 2014, 2014, 1-18.	0.7	7