# Elisa Passini

List of Publications by Year
in descending order

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|---|---|---|---|
| 19<br>papers | 1,121<br>citations | 567281<br>15<br>h-index | 752698<br>20<br>g-index |
| 22<br>all docs | 22<br>docs citations | 22<br>times ranked | 1064<br>citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Human In Silico Drug Trials Demonstrate Higher Accuracy than Animal Models in Predicting Clinical Pro-Arrhythmic Cardiotoxicity. Frontiers in Physiology, 2017, 8, 668. | 2.8 | 227 |
| 2 | 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. | 2.9 | 141 |
| 3 | Development, calibration, and validation of a novel human ventricular myocyte model in health, disease, and drug block. ELife, 2019, 8, . | 6.0 | 131 |
| 4 | 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. | 1.9 | 102 |
| 5 | Cardiac transmembrane ion channels and action potentials: cellular physiology and arrhythmogenic behavior. Physiological Reviews, 2021, 101, 1083-1176. | 28.8 | 87 |
| 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. | 4.7 | 67 |
| 7 | 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. | 0.7 | 54 |
| 8 | Drug‐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. | 5.4 | 47 |
| 9 | All-Optical Electrophysiology Refines Populations of In Silico Human iPSC-CMs for Drug Evaluation. Biophysical Journal, 2020, 118, 2596-2611. | 0.5 | 40 |
| 10 | Recurrent intradialytic paroxysmal atrial fibrillation: hypotheses on onset mechanisms based on clinical data and computational analysis. Europace, 2014, 16, 396-404. | 1.7 | 30 |
| 11 | Human Purkinje in silico model enables mechanistic investigations into automaticity and pro-arrhythmic abnormalities. Journal of Molecular and Cellular Cardiology, 2020, 142, 24-38. | 1.9 | 29 |
| 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. | 3.5 | 26 |
| 13 | 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. | 2.8 | 26 |
| 14 | Applying the CiPA approach to evaluate cardiac proarrhythmia risk of some antimalarials used off‐label in the first wave of COVID‐19. Clinical and Translational Science, 2021, 14, 1133-1146. | 3.1 | 23 |
| 15 | 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. | 3.5 | 15 |
| 16 | The virtual assay software for human in silico drug trials to augment drug cardiac testing. Journal of Computational Science, 2021, 52, 101202. | 2.9 | 14 |
| 17 | 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. | 1.3 | 7 |
| 18 | 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. | 2.8 | 6 |

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 19 | In Silico Identification of the Key Ionic Currents Modulating Human Pluripotent Stem Cell-Derived Cardiomyocytes Towards an Adult Phenotype. , 2021, , . | | 2 |