Alessandra Moretti

List of Publications by Year
in descending order

85 papers	7,306 citations	117453 34 h-index	85405 71 g-index
93 all docs	93 docs citations	93 times ranked	7569 citing authors

#	Article	IF	Citations
1	Postnatal isl1+ cardioblasts enter fully differentiated cardiomyocyte lineages. Nature, 2005, 433, 647-653.	13.7	1,229
2	Patient-Specific Induced Pluripotent Stem-Cell Models for Long-QT Syndrome. New England Journal of Medicine, 2010, 363, 1397-1409.	13.9	1,132
3	Multipotent Embryonic Isl1+ Progenitor Cells Lead to Cardiac, Smooth Muscle, and Endothelial Cell Diversification. Cell, 2006, 127, 1151-1165.	13.5	944
4	The Renewal and Differentiation of Isl1+ Cardiovascular Progenitors Are Controlled by a Wnt/Î²-Catenin Pathway. Cell Stem Cell, 2007, 1, 165-179.	5.2	300
5	Dantrolene rescues arrhythmogenic RYR2 defect in a patientâ€specific stem cell model of catecholaminergic polymorphic ventricular tachycardia. EMBO Molecular Medicine, 2012, 4, 180-191.	3.3	298
6	Human Engineered Heart Tissue: Analysis of Contractile Force. Stem Cell Reports, 2016, 7, 29-42.	2.3	292
7	Islet1 cardiovascular progenitors: a single source for heart lineages?. Development (Cambridge), 2008, 135, 193-205.	1.2	206
8	Embryonic Heart Progenitors and Cardiogenesis. Cold Spring Harbor Perspectives in Medicine, 2013, 3, a013847-a013847.	2.9	187
9	Isogenic human pluripotent stem cell pairs reveal the role of a KCNH2 mutation in long-QT syndrome. EMBO Journal, 2013, 32, 3161-3175.	3.5	174
10	Somatic gene editing ameliorates skeletal and cardiac muscle failure in pig and human models of Duchenne muscular dystrophy. Nature Medicine, 2020, 26, 207-214.	15.2	169
11	Functional Diversity of P-Type and R-Type Calcium Channels in Rat Cerebellar Neurons. Journal of Neuroscience, 1996, 16, 6353-6363.	1.7	160
12	Diabetes Mellitusâ€“Induced Microvascular Destabilization in the Myocardium. Journal of the American College of Cardiology, 2017, 69, 131-143.	1.2	113
13	Mouse and human induced pluripotent stem cells as a source for multipotent Isl1⁺cardiovascular progenitors. FASEB Journal, 2010, 24, 700-711.	0.2	110
14	Elucidating arrhythmogenic mechanisms of long-QT syndrome CALM1-F142L mutation in patient-specific induced pluripotent stem cell-derived cardiomyocytes. Cardiovascular Research, 2017, 113, 531-541.	1.8	110
15	Antisenseâ€mediated exon skipping: a therapeutic strategy for titinâ€based dilated cardiomyopathy. EMBO Molecular Medicine, 2015, 7, 562-576.	3.3	94
16	Essential myosin light chain as a target for caspase-3 in failing myocardium. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 11860-11865.	3.3	93
17	Blocking Caspase-Activated Apoptosis Improves Contractility in Failing Myocardium. Human Gene Therapy, 2001, 12, 2051-2063.	1.4	89
18	Induced pluripotent stem cell-derived cardiomyocytes for drug development and toxicity testing. , 2014, 143, 246-252.		80

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19	Pluripotent Stem Cell Models of Human Heart Disease. Cold Spring Harbor Perspectives in Medicine, 2013, 3, a014027-a014027.	2.9	79
20	A new <scp>hERG</scp> allosteric modulator rescues genetic and drugâ€induced longâ€<scp>QT</scp> syndrome phenotypes in cardiomyocytes from isogenic pairs of patient induced pluripotent stem cells. EMBO Molecular Medicine, 2016, 8, 1065-1081.	3.3	77
21	Direct Nkx2-5 Transcriptional Repression of Isl1 Controls Cardiomyocyte Subtype Identity. Stem Cells, 2015, 33, 1113-1129.	1.4	76
22	Enhanced Cardiac Contractility After Gene Transfer of V2 Vasopressin Receptors In Vivo by Ultrasound-Guided Injection or Transcoronary Delivery. Circulation, 2000, 101, 1578-1585.	1.6	69
23	Automated analysis of contractile force and Ca²⁺transients in engineered heart tissue. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 306, H1353-H1363.	1.5	69
24	Interplay of cellâ€“cell contacts and RhoA/ <scp>MRTF</scp> â€A signaling regulates cardiomyocyte identity. EMBO Journal, 2018, 37, .	3.5	66
25	Subtype-specific promoter-driven action potential imaging for precise disease modelling and drug testing in hiPSC-derived cardiomyocytes. European Heart Journal, 2017, 38, ehw189.	1.0	62
26	Truncated titin proteins and titin haploinsufficiency are targets for functional recovery in human cardiomyopathy due to TTN mutations. Science Translational Medicine, 2021, 13, eabd3079.	5.8	59
27	Neuropotent self-renewing neural stem (NS) cells derived from mouse induced pluripotent stem (iPS) cells. Molecular and Cellular Neurosciences, 2010, 43, 287-295.	1.0	55
28	Modulation of hERG potassium channel gating normalizes action potential duration prolonged by dysfunctional KCNQ1 potassium channel. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11866-11871.	3.3	54
29	Transcriptome Analysis of Reticulated Platelets Reveals a Prothrombotic Profile. Thrombosis and Haemostasis, 2019, 119, 1795-1806.	1.8	54
30	Three novel types of voltage-dependent calcium channels in rat cerebellar neurons. Journal of Neuroscience, 1994, 14, 5243-5256.	1.7	52
31	Induced Pluripotent Stem Cell-Derived Cardiomyocytes. Circulation Research, 2013, 112, 961-968.	2.0	51
32	Cardiovascular development: towards biomedical applicability. Cellular and Molecular Life Sciences, 2007, 64, 674-682.	2.4	41
33	AntimiR-132 Attenuates Myocardial Hypertrophy in an Animal Model of Percutaneous Aortic Constriction. Journal of the American College of Cardiology, 2021, 77, 2923-2935.	1.2	41
34	Effects of two GÎ²Î³-binding proteins â€“ N-terminally truncated phosducin and Î²-adrenergic receptor kinase C terminus (Î²ARKct) â€“ in heart failure. Gene Therapy, 2003, 10, 1354-1361.	2.3	39
35	DEVELOPMENT: ES Cells to the Rescue. Science, 2004, 306, 239-240.	6.0	38
36	Functional abnormalities in induced Pluripotent Stem Cell-derived cardiomyocytes generated from titin-mutated patients with dilated cardiomyopathy. PLoS ONE, 2018, 13, e0205719.	1.1	38

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37	Suppression of Arrhythmia by EnhancingÂMitochondrial Ca2+ Uptake inÂCatecholaminergic Ventricular Tachycardia Models. JACC Basic To Translational Science, 2017, 2, 737-747.	1.9	35
38	Progressive stretch enhances growth and maturation of 3D stem-cell-derived myocardium. Theranostics, 2021, 11, 6138-6153.	4.6	34
39	Sequential Defects in Cardiac Lineage Commitment and Maturation Cause Hypoplastic Left Heart Syndrome. Circulation, 2021, 144, 1409-1428.	1.6	29
40	Adenoviral Gene Transfer of the Human V2 Vasopressin Receptor Improves Contractile Force of Rat Cardiomyocytes. Circulation, 1999, 99, 925-933.	1.6	28
41	Live Fluorescent RNA-Based Detection of Pluripotency Gene Expression in Embryonic and Induced Pluripotent Stem Cells of Different Species. Stem Cells, 2015, 33, 392-402.	1.4	27
42	Multipotent Progenitor Cells in Regenerative Cardiovascular Medicine. Pediatric Cardiology, 2009, 30, 690-698.	0.6	25
43	Genome editing for Duchenne muscular dystrophy: a glimpse of the future?. Gene Therapy, 2021, 28, 542-548.	2.3	24
44	Genetically Encoded Voltage Indicators in Circulation Research. International Journal of Molecular Sciences, 2015, 16, 21626-21642.	1.8	22
45	Modeling Long-QT Syndromes with iPS Cells. Journal of Cardiovascular Translational Research, 2013, 6, 31-36.	1.1	21
46	Migratory and anti-fibrotic programmes define the regenerative potential of human cardiac progenitors. Nature Cell Biology, 2022, 24, 659-671.	4.6	21
47	Functional Comparison of Induced Pluripotent Stem Cell- and Blood-Derived GPIIbIIIa Deficient Platelets. PLoS ONE, 2015, 10, e0115978.	1.1	17
48	Endothelial Retargeting of AAV9 In Vivo. Advanced Science, 2022, 9, e2103867.	5.6	17
49	Aberrant Deactivation-Induced Gain of Function in TRPM4 Mutant Is Associated with Human Cardiac Conduction Block. Cell Reports, 2018, 24, 724-731.	2.9	16
50	Gene transfer of the pancaspase inhibitor P35 reduces myocardial infarct size and improves cardiac function. Journal of Molecular Medicine, 2005, 83, 526-534.	1.7	15
51	MicroRNA-365 regulates human cardiac action potential duration. Nature Communications, 2022, 13, 220.	5.8	15
52	Deciphering the Role of Wnt and Rho Signaling Pathway in iPSC-Derived ARVC Cardiomyocytes by In Silico Mathematical Modeling. International Journal of Molecular Sciences, 2021, 22, 2004.	1.8	14
53	Approved drugs ezetimibe and disulfiram enhance mitochondrial Ca²⁺ uptake and suppress cardiac arrhythmogenesis. British Journal of Pharmacology, 2021, 178, 4518-4532.	2.7	13
54	The Wnt inhibitor Dkk1 is required for maintaining the normal cardiac differentiation program in Xenopus laevis. Developmental Biology, 2019, 449, 1-13.	0.9	11

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55	Induced Pluripotent Stem Cells in Cardiovascular Research. , 2012, 163, 1-26.		10
56	Perspectives and Challenges of Pluripotent Stem Cells in Cardiac Arrhythmia Research. Current Cardiology Reports, 2017, 19, 23.	1.3	10
57	Gene Transfer of Heterologous G Proteinâ€“Coupled Receptors to Cardiomyocytes. Circulation Research, 2001, 88, 688-695.	2.0	9
58	Human BIN1 isoforms grow, maintain, and regenerate excitationâ€“contraction couplons in adult rat and human stem cell-derived cardiomyocytes. Cardiovascular Research, 2022, 118, 1479-1491.	1.8	9
59	Cell cycle defects underlie childhood-onset cardiomyopathy associated with Noonan syndrome. IScience, 2022, 25, 103596.	1.9	9
60	Recapitulating Long-QT Syndrome Using Induced Pluripotent Stem Cell Technology. Pediatric Cardiology, 2012, 33, 950-958.	0.6	8
61	Domain zipping and unzipping modulates TRPM4â€™s properties in human cardiac conduction disease. FASEB Journal, 2020, 34, 12114-12126.	0.2	7
62	Precise Correction of Heterozygous SHOX2 Mutations in hiPSCs Derived from Patients with Atrial Fibrillation via Genome Editing and Sib Selection. Stem Cell Reports, 2020, 15, 999-1013.	2.3	6
63	Innervated mouse pancreas organoids as an ex vivo model to study pancreatic neuropathy in pancreatic cancer. STAR Protocols, 2021, 2, 100935.	0.5	6
64	DGK and DZHK position paper on genome editing: basic science applications and future perspective. Basic Research in Cardiology, 2021, 116, 2.	2.5	5
65	Negating the dominant-negative allele: a new treatment paradigm for arrhythmias explored in human induced pluripotent stem cell-derived cardiomyocytes. European Heart Journal, 2014, 35, 1019-1021.	1.0	4
66	Extending Human Induced Pluripotent Stem Cell Technology to Infectious Diseases. Circulation Research, 2014, 115, 537-539.	2.0	4
67	Use of hiPSC-Derived Cardiomyocytes to Rule Out Proarrhythmic Effects of Drugs: The Case of Hydroxychloroquine in COVID-19. Frontiers in Physiology, 2021, 12, 730127.	1.3	4
68	Subtype-specific Optical Action Potential Recordings in Human Induced Pluripotent Stem Cell-derived Ventricular Cardiomyocytes. Journal of Visualized Experiments, 2018, , .	0.2	3
69	MicroRNAs in a Cardiac Loop: Progenitor or Myocyte?. Developmental Cell, 2010, 19, 787-788.	3.1	2
70	Induced Pluripotent Stem Cells in Regenerative Medicine. , 2016, , 51-75.		2
71	Generation of heterozygous (MRIi003-A-5) and homozygous (MRIi003-A-6) voltage-sensing knock-in human iPSC lines by CRISPR/Cas9 editing of the AAVS1 locus. Stem Cell Research, 2022, 61, 102785.	0.3	2
72	Generation of two human iPSC lines, HMGUi003-A and MRIi028-A, carrying pathogenic biallelic variants in the PPCS gene. Stem Cell Research, 2022, 61, 102773.	0.3	2

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73	Genotype-Phenotype Correlation in Induced Pluripotent Stem Cell (iPSC)Derived Cardiomyocytes Carrying Calmodulin Mutations. Biophysical Journal, 2014, 106, 333a.	0.2	1
74	Domain Zipping and Unzipping Modulates TRPM4's Properties in Human Cardiac Conduction Disease. Biophysical Journal, 2020, 118, 21a-22a.	0.2	1
75	Treatment of Patients with Long-QT Syndrome: Differentiation of Patient-Derived Induced Pluripotent Stem Cells into Functional Cardiac Myocytes. , 2013, , 93-100.		0
76	In vitro generation of hiPSC-derived megakaryocytes and platelets from a patient with Glanzmann thrombasthenia. European Heart Journal, 2013, 34, 5867-5867.	1.0	0
77	Isogenic Sets of Human Pluripotent Stem Cells as Model of LQT2 Syndrome. Biophysical Journal, 2014, 106, 552a-553a.	0.2	0
78	Human Induced Pluripotent Stem Cells-Derived Cardiomyocytes Carrying CALM1-F142l Mutation Recapitulate LQTS Phenotype in Vitro. Biophysical Journal, 2016, 110, 263a.	0.2	0
79	Suppression of Arrhythmia by Enhancing Mitochondrial Calcium Uptake in Experimental Models of Catecholaminergic Ventricular Tachycardia. Biophysical Journal, 2017, 112, 95a.	0.2	0
80	Human BIN1 Isoforms Maintain, Regenerate and Elicit Functional EC-coupling and Couplons in Adult Rat and Human Induced Pluripotent Stem Cell-derived Cardiomyocytes. Biophysical Journal, 2020, 118, 35a.	0.2	0
81	Modeling Arrhythmogenic Heart Disease with Patient-Specific Induced Pluripotent Stem Cells. , 2013, , 276-304.		0
82	Identification of Differentially Regulated Pathways in Cardiac Development and Cardiac Gene Expression during In Vitro Cardiac Differentiation of HLHS-derived Human Induced Pluripotent Stem Cells using Transcriptome Analysis. Thoracic and Cardiovascular Surgeon, 2018, 66, S1-S110.	0.4	0
83	Human Induced Pluripotent Stem Cells as Platform for Functional Examination of Cardiovascular Genetics in a Dish. Cardiac and Vascular Biology, 2019, , 341-357.	0.2	0
84	Generation of heterozygous (MRli003-A-1) and homozygous (MRli003-A-2) MYH10 knockout human iPSC lines. Stem Cell Research, 2021, 57, 102612.	0.3	0
85	Generation of heterozygous (MRli003-A-3) and homozygous (MRli003-A-4) TRPM4 knockout human iPSC lines. Stem Cell Research, 2022, 60, 102731.	0.3	0