

Milena Bellin

List of Publications by Year in descending order

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56
papers

4,753
citations

201385

27
h-index

168136

53
g-index

57
all docs

57
docs citations

57
times ranked

5614
citing authors

#	ARTICLE	IF	CITATIONS
1	Patient-Specific Induced Pluripotent Stem-Cell Models for Long-QT Syndrome. <i>New England Journal of Medicine</i> , 2010, 363, 1397-1409.	13.9	1,132
2	Induced pluripotent stem cells: the new patient?. <i>Nature Reviews Molecular Cell Biology</i> , 2012, 13, 713-726.	16.1	377
3	Human-iPSC-Derived Cardiac Stromal Cells Enhance Maturation in 3D Cardiac Microtissues and Reveal Non-cardiomyocyte Contributions to Heart Disease. <i>Cell Stem Cell</i> , 2020, 26, 862-879.e11.	5.2	337
4	Dantrolene rescues arrhythmogenic RYR2 defect in a patient-specific stem cell model of catecholaminergic polymorphic ventricular tachycardia. <i>EMBO Molecular Medicine</i> , 2012, 4, 180-191.	3.3	298
5	MUSCLEMOTION. <i>Circulation Research</i> , 2018, 122, e5-e16.	2.0	235
6	Immaturity of Human Stem-Cell-Derived Cardiomyocytes in Culture: Fatal Flaw or Soluble Problem?. <i>Stem Cells and Development</i> , 2015, 24, 1035-1052.	1.1	229
7	Three-dimensional cardiac microtissues composed of cardiomyocytes and endothelial cells co-differentiated from human pluripotent stem cells. <i>Development (Cambridge)</i> , 2017, 144, 1008-1017.	1.2	216
8	Functional maturation of human pluripotent stem cell derived cardiomyocytes in vitro Correlation between contraction force and electrophysiology. <i>Biomaterials</i> , 2015, 51, 138-150.	5.7	176
9	Isogenic human pluripotent stem cell pairs reveal the role of a KCNH2 mutation in long-QT syndrome. <i>EMBO Journal</i> , 2013, 32, 3161-3175.	3.5	174
10	Expansion and patterning of cardiovascular progenitors derived from human pluripotent stem cells. <i>Nature Biotechnology</i> , 2015, 33, 970-979.	9.4	165
11	Recessive cardiac phenotypes in induced pluripotent stem cell models of Jervell and Lange-Nielsen syndrome: Disease mechanisms and pharmacological rescue. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E5383-92.	3.3	153
12	Mouse and human induced pluripotent stem cells as a source for multipotent Isl1 cardiovascular progenitors. <i>FASEB Journal</i> , 2010, 24, 700-711.	0.2	110
13	Integrating cardiomyocytes from human pluripotent stem cells in safety pharmacology: has the time come?. <i>British Journal of Pharmacology</i> , 2017, 174, 3749-3765.	2.7	104
14	Uncoupling DNA damage from chromatin damage to detoxify doxorubicin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15182-15192.	3.3	93
15	A new hERG allosteric modulator rescues genetic and drug-induced long QT syndrome phenotypes in cardiomyocytes from isogenic pairs of patient induced pluripotent stem cells. <i>EMBO Molecular Medicine</i> , 2016, 8, 1065-1081.	3.3	77
16	Subtype-specific promoter-driven action potential imaging for precise disease modelling and drug testing in hiPSC-derived cardiomyocytes. <i>European Heart Journal</i> , 2017, 38, ehw189.	1.0	62
17	Human Pluripotent Stem Cell Differentiation into Functional Epicardial Progenitor Cells. <i>Stem Cell Reports</i> , 2017, 9, 1754-1764.	2.3	55
18	Modulation of hERG potassium channel gating normalizes action potential duration prolonged by dysfunctional KCNQ1 potassium channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11866-11871.	3.3	54

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19	Switch From Fetal to Adult <i>SCN5A</i> Isoform in Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes Unmasks the Cellular Phenotype of a Conduction Disease-Causing Mutation. <i>Journal of the American Heart Association</i> , 2017, 6, .	1.6	54
20	Generation, functional analysis and applications of isogenic three-dimensional self-aggregating cardiac microtissues from human pluripotent stem cells. <i>Nature Protocols</i> , 2021, 16, 2213-2256.	5.5	53
21	Human heart disease: lessons from human pluripotent stem cell-derived cardiomyocytes. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 3711-3739.	2.4	51
22	Altered glucose metabolism and proteolysis in pancreatic cancer cell conditioned myoblasts: searching for a gene expression pattern with a microarray analysis of 5000 skeletal muscle genes. <i>Gut</i> , 2004, 53, 1159-1166.	6.1	49
23	Cardiac Tissues From Stem Cells. <i>Circulation Research</i> , 2021, 128, 775-801.	2.0	42
24	Chitinase Levels in the Tears of Subjects With Ocular Allergies. <i>Cornea</i> , 2008, 27, 168-173.	0.9	38
25	Acidic Mammalian Chitinase in Dry Eye Conditions. <i>Cornea</i> , 2009, 28, 667-672.	0.9	34
26	CHIT1 and AMCase expression in human gastric mucosa: correlation with inflammation and <i>Helicobacter pylori</i> infection. <i>European Journal of Gastroenterology and Hepatology</i> , 2009, 21, 1119-1126.	0.8	32
27	Inherited heart disease - what can we expect from the second decade of human iPS cell research?. <i>FEBS Letters</i> , 2016, 590, 2482-2493.	1.3	31
28	Calcium as a Key Player in Arrhythmogenic Cardiomyopathy: Adhesion Disorder or Intracellular Alteration?. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3986.	1.8	29
29	Altered calcium handling and increased contraction force in human embryonic stem cell derived cardiomyocytes following short term dexamethasone exposure. <i>Biochemical and Biophysical Research Communications</i> , 2015, 467, 998-1005.	1.0	28
30	Readthrough-Promoting Drugs Gentamicin and PTC124 Fail to Rescue Na ^v 1.5 Function of Human-Induced Pluripotent Stem Cell-Derived Cardiomyocytes Carrying Nonsense Mutations in the Sodium Channel Gene <i>SCN5A</i> . <i>Circulation: Arrhythmia and Electrophysiology</i> , 2016, 9, .	2.1	28
31	Engineered models of the human heart: Directions and challenges. <i>Stem Cell Reports</i> , 2021, 16, 2049-2057.	2.3	28
32	Electrophysiological Analysis of human Pluripotent Stem Cell-derived Cardiomyocytes (hPSC-CMs) Using Multi-electrode Arrays (MEAs). <i>Journal of Visualized Experiments</i> , 2017, , .	0.2	27
33	A Miniaturized EHT Platform for Accurate Measurements of Tissue Contractile Properties. <i>Journal of Microelectromechanical Systems</i> , 2020, 29, 881-887.	1.7	27
34	Expanding the editable genome and CRISPR-Cas9 versatility using DNA cutting-free gene targeting based on in trans paired nicking. <i>Nucleic Acids Research</i> , 2020, 48, 974-995.	6.5	25
35	Co-Differentiation of Human Pluripotent Stem Cells-Derived Cardiomyocytes and Endothelial Cells from Cardiac Mesoderm Provides a Three-Dimensional Model of Cardiac Microtissue. <i>Current Protocols in Human Genetics</i> , 2017, 95, 21.9.1-21.9.22.	3.5	21
36	Large-Scale Simulation of the Phenotypical Variability Induced by Loss-of-Function Long QT Mutations in Human Induced Pluripotent Stem Cell Cardiomyocytes. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3583.	1.8	17

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37	Inflammation in the Pathogenesis of Arrhythmogenic Cardiomyopathy: Secondary Event or Active Driver?. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 784715.	1.1	14
38	Maturation of hiPSC-derived cardiomyocytes promotes adult alternative splicing of SCN5A and reveals changes in sodium current associated with cardiac arrhythmia. <i>Cardiovascular Research</i> , 2023, 119, 167-182.	1.8	13
39	The cancer's gone, but did chemotherapy damage your heart?. <i>Nature Reviews Cardiology</i> , 2016, 13, 383-384.	6.1	11
40	Cardiac microtissues from human pluripotent stem cells recapitulate the phenotype of long-QT syndrome. <i>Biochemical and Biophysical Research Communications</i> , 2021, 572, 118-124.	1.0	8
41	Generation of human induced pluripotent stem cell line LUMCi027-A and its isogenic gene-corrected line from a patient affected by arrhythmogenic cardiomyopathy and carrying the c.2013delC PKP2 mutation. <i>Stem Cell Research</i> , 2020, 46, 101835.	0.3	7
42	Targeting the Kv11.1 (hERG) channel with allosteric modulators. Synthesis and biological evaluation of three novel series of LUF7346 derivatives. <i>European Journal of Medicinal Chemistry</i> , 2021, 212, 113033.	2.6	6
43	Expression profiling characterization of laminin $\hat{\pm}$ -2 positive MDC. <i>Biochemical and Biophysical Research Communications</i> , 2006, 350, 345-351.	1.0	5
44	Software Tool for Automatic Quantification of Sarcomere Length and Organization in Fixed and Live 2D and 3D Muscle Cell Cultures <i>In Vitro</i> . <i>Current Protocols</i> , 2022, 2, .	1.3	5
45	Human iPS cell models of Jervell and Lange-Nielsen syndrome. <i>Rare Diseases (Austin, Tex)</i> , 2015, 3, e1012978.	1.8	4
46	Reply to Christ et al.: LQT1 and JLNS phenotypes in hiPSC-derived cardiomyocytes are due to KCNQ1 mutations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E1969-E1969.	3.3	4
47	Mechanotransduction and Adrenergic Stimulation in Arrhythmogenic Cardiomyopathy: An Overview of in vitro and in vivo Models. <i>Frontiers in Physiology</i> , 2020, 11, 568535.	1.3	3
48	Toward Human Models of Cardiorenal Syndrome in vitro. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, .	1.1	3
49	Maturation of hiPSC-derived cardiomyocytes in cardiac microtissues promotes adult alternative splicing of sodium channel revealing mutation effects associated with cardiac arrhythmia. <i>Cardiovascular Research</i> , 2022, 118, .	1.8	2
50	Coronary telangiectasia associated with hypertrophic cardiomyopathy. <i>European Journal of Heart Failure</i> , 2012, 14, 1332-1337.	2.9	1
51	Crispr/Cas9 homologous recombination (HR). <i>Drug Discovery Today: Technologies</i> , 2018, 28, 1-2.	4.0	1
52	Generation of two human induced pluripotent stem cell lines, LUMCi020-A and LUMCi021-A, from two patients with Catecholaminergic Polymorphic Ventricular Tachycardia carrying heterozygous mutations in the RYR2 gene. <i>Stem Cell Research</i> , 2020, 45, 101764.	0.3	1
53	Generation of three human induced pluripotent stem cell lines, LUMCi024-A, LUMCi025-A, and LUMCi026-A, from two patients with combined oxidative phosphorylation deficiency 8 and a related control. <i>Stem Cell Research</i> , 2021, 53, 102374.	0.3	1
54	Integrating cardiomyocytes from human pluripotent stem cells in safety pharmacology: has the time come?., 2017, 174, 3749.		1

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55	P1079A versatile tool for measuring contraction of adult and human pluripotent stem cell-derived cardiomyocytes in vitro and cardiac muscle in situ. <i>Europace</i> , 2017, 19, iii238-iii239.	0.7	0
56	Generation of human induced pluripotent stem cell line EURACi006-A and its isogenic gene-corrected line EURACi006-A-1 from an arrhythmogenic cardiomyopathy patient carrying the c.1643delG PKP2 mutation. <i>Stem Cell Research</i> , 2021, 54, 102426.	0.3	0