Cesare M N Terracciano

List of Publications by Year
in descending order

113 papers	4,572 citations	94433 37 h-index	114465 63 g-index
113 all docs	113 docs citations	113 times ranked	6404 citing authors

#	Article	IF	Citations
1	Genetic variation in SCN10A influences cardiac conduction. Nature Genetics, 2010, 42, 149-152.	21.4	248
2	Direct Intramyocardial But Not Intracoronary Injection of Bone Marrow Cells Induces Ventricular Arrhythmias in a Rat Chronic Ischemic Heart Failure Model. Circulation, 2007, 115, 2254-2261.	1.6	174
3	A conducting polymer with enhanced electronic stability applied in cardiac models. Science Advances, 2016, 2, e1601007.	10.3	173
4	Auxetic Cardiac Patches with Tunable Mechanical and Conductive Properties toward Treating Myocardial Infarction. Advanced Functional Materials, 2018, 28, 1800618.	14.9	167
5	The effect of microgrooved culture substrates on calcium cycling of cardiac myocytes derived from human induced pluripotent stem cells. Biomaterials, 2013, 34, 2399-2411.	11.4	154
6	Clinical Recovery From End-Stage Heart Failure Using Left-Ventricular Assist Device and Pharmacological Therapy Correlates With Increased Sarcoplasmic Reticulum Calcium Content but Not With Regression of Cellular Hypertrophy. Circulation, 2004, 109, 2263-2265.	1.6	151
7	Direct effects of apelin on cardiomyocyte contractility and electrophysiology. Biochemical and Biophysical Research Communications, 2007, 357, 889-895.	2.1	134
8	Na+âˆ’Ca2+exchange and sarcoplasmic reticular Ca2+regulation in ventricular myocytes from transgenic mice overexpressing the Na+âˆ’Ca2+exchanger. Journal of Physiology, 1998, 512, 651-667.	2.9	131
9	Empagliflozin reduces <scp>Ca</scp>/calmodulinâ€dependent kinase <scp>II</scp> activity in isolated ventricular cardiomyocytes. ESC Heart Failure, 2018, 5, 642-648.	3.1	131
10	Functional crosstalk between cardiac fibroblasts and adult cardiomyocytes by soluble mediators. Cardiovascular Research, 2015, 105, 260-270.	3.8	123
11	The structure and function of cardiac t-tubules in health and disease. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 2714-2723.	2.6	121
12	Elevated p53 expression is associated with dysregulation of the ubiquitin-proteasome system in dilated cardiomyopathy. Cardiovascular Research, 2008, 79, 472-480.	3.8	114
13	Action Potential Morphology of Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes Does Not Predict Cardiac Chamber Specificity and Is Dependent on Cell Density. Biophysical Journal, 2015, 108, 1-4.	0.5	85
14	Mechanical unloading reverses transverse tubule remodelling and normalizes local Ca²⁺â€induced Ca²⁺release in a rodent model of heart failure. European Journal of Heart Failure, 2012, 14, 571-580.	7.1	76
15	Preparation of viable adult ventricular myocardial slices from large and small mammals. Nature Protocols, 2017, 12, 2623-2639.	12.0	75
16	Prolonged mechanical unloading affects cardiomyocyte excitationâ€contraction coupling, transverseâ€tubule structure, and the cell surface. FASEB Journal, 2010, 24, 3321-3329.	0.5	73
17	Adult human heart slices are a multicellular system suitable for electrophysiological and pharmacological studies. Journal of Molecular and Cellular Cardiology, 2011, 51, 390-398.	1.9	72
18	Remote Magnetic Nanoparticle Manipulation Enables the Dynamic Patterning of Cardiac Tissues. Advanced Materials, 2020, 32, e1904598.	21.0	70

#	ARTICLE	IF	CITATIONS
19	Changes in sarcolemmal Ca entry and sarcoplasmic reticulum Ca content in ventricular myocytes from patients with end-stage heart failure following myocardial recovery after combined pharmacological and ventricular assist device therapy. European Heart Journal, 2003, 24, 1329-1339.	2.2	69
20	Biomimetic electromechanical stimulation to maintain adult myocardial slices in vitro. Nature Communications, 2019, 10, 2168.	12.8	68
21	Tollâ€like receptor 9 protects nonâ€immune cells from stress by modulating mitochondrial <scp>ATP</scp> synthesis through the inhibition of <scp>SERCA</scp> 2. EMBO Reports, 2014, 15, 438-445.	4.5	66
22	Choice of Cell-Delivery Route for Skeletal Myoblast Transplantation for Treating Post-Infarction Chronic Heart Failure in Rat. PLoS ONE, 2008, 3, e3071.	2.5	63
23	Effects of chronic administration of clenbuterol on function and metabolism of adult rat cardiac muscle. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 288, H1468-H1476.	3.2	62
24	Role and possible mechanisms of clenbuterol in enhancing reverse remodelling during mechanical unloading in murine heart failure. Cardiovascular Research, 2008, 77, 695-706.	3.8	62
25	Excitationâ€"contraction coupling of human induced pluripotent stem cell-derived cardiomyocytes. Frontiers in Cell and Developmental Biology, 2015, 3, 59.	3.7	62
26	Physiological Biomimetic Culture System for Pig and Human Heart Slices. Circulation Research, 2019, 125, 628-642.	4.5	60
27	Effects of Na+/Ca2+-exchanger Overexpression on Excitationâ€"contraction Coupling in Adult Rabbit Ventricular Myocytes. Journal of Molecular and Cellular Cardiology, 2002, 34, 389-400.	1.9	55
28	Investigation of cardiac fibroblasts using myocardial slices. Cardiovascular Research, 2018, 114, 77-89.	3.8	52
29	Concise Review: Criteria for Chamber-Specific Categorization of Human Cardiac Myocytes Derived from Pluripotent Stem Cells. Stem Cells, 2017, 35, 1881-1897.	3.2	51
30	Cytoskeletal Protein 4.1R Affects Repolarization and Regulates Calcium Handling in the Heart. Circulation Research, 2008, 103, 855-863.	4.5	50
31	A critical role for Telethonin in regulating t-tubule structure and function in the mammalian heart. Human Molecular Genetics, 2013, 22, 372-383.	2.9	50
32	Poly(3-hydroxyoctanoate), a promising new material for cardiac tissue engineering. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, e495-e512.	2.7	50
33	Heterocellularity and Cellular Cross-Talk in the Cardiovascular System. Frontiers in Cardiovascular Medicine, 2018, 5, 143.	2.4	48
34	Contemporary Use of Ventricular Assist Devices. Annual Review of Medicine, 2010, 61, 255-270.	12.2	43
35	Heart Plasticity in Response to Pressure- and Volume-Overload: A Review of Findings in Compensated and Decompensated Phenotypes. Frontiers in Physiology, 2020, 11, 92.	2.8	43
36	Functional alterations in adult rat myocytes after overexpression of phospholamban with use of adenovirus. Physiological Genomics, 1999, 1, 41-50.	2.3	42

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37	Donor cell-type specific paracrine effects of cell transplantation for post-infarction heart failure. Journal of Molecular and Cellular Cardiology, 2009, 47, 288-295.	1.9	42
38	Genetic background affects function and intracellular calcium regulation of mouse hearts. Cardiovascular Research, 2010, 87, 683-693.	3.8	42
39	Elastic serum-albumin based hydrogels: mechanism of formation and application in cardiac tissue engineering. Journal of Materials Chemistry B, 2018, 6, 5604-5612.	5.8	40
40	Left ventricular assist device-induced molecular changes in the failing myocardium. Current Opinion in Cardiology, 2008, 23, 206-218.	1.8	39
41	Reversibility of T-tubule remodelling in heart failure: mechanical load as a dynamic regulator of the T-tubules. Cardiovascular Research, 2013, 98, 225-232.	3.8	39
42	Free-of-Acrylamide SDS-based Tissue Clearing (FASTClear) for three dimensional visualization of myocardial tissue. Scientific Reports, 2017, 7, 5188.	3.3	38
43	Effects of Rest Interval on the Release of Calcium From the Sarcoplasmic Reticulum in Isolated Guinea Pig Ventricular Myocytes. Circulation Research, 1995, 77, 354-360.	4.5	37
44	Ablation of SGK1 Impairs Endothelial Cell Migration and Tube Formation Leading to Decreased Neo-Angiogenesis Following Myocardial Infarction. PLoS ONE, 2013, 8, e80268.	2.5	37
45	Prolonged Mechanical Unloading Reduces Myofilament Sensitivity to Calcium and Sarcoplasmic Reticulum Calcium Uptake Leading to Contractile Dysfunction. Journal of Heart and Lung Transplantation, 2008, 27, 882-889.	0.6	35
46	Loss of Î²-adrenoceptor response in myocytes overexpressing the Na+/Ca2+-exchanger. Journal of Molecular and Cellular Cardiology, 2004, 36, 43-48.	1.9	34
47	Cardiomyocyte <scp><scp>Ca</scp></scp>²⁺ handling and structure is regulated by degree and duration of mechanical load variation. Journal of Cellular and Molecular Medicine, 2012, 16, 2910-2918.	3.6	34
48	Myocardial slices come to age: an intermediate complexity in vitro cardiac model for translational research. Cardiovascular Research, 2020, 116, 1275-1287.	3.8	34
49	Junctophilin-2 tethers T-tubules and recruits functional L-type calcium channels to lipid rafts in adult cardiomyocytes. Cardiovascular Research, 2021, 117, 149-161.	3.8	34
50	Protein 4.1 and the control of ion channels. Blood Cells, Molecules, and Diseases, 2009, 42, 211-215.	1.4	32
51	Reduced Na ⁺ and higher K ⁺ channel expression and function contribute to right ventricular origin of arrhythmias in <i>Scn5a+/â^'</i> mice. Open Biology, 2012, 2, 120072.	3.6	32
52	Phosphoregulation of the Titin-cap Protein Telethonin in Cardiac Myocytes. Journal of Biological Chemistry, 2014, 289, 1282-1293.	3.4	32
53	Animal models and animal-free innovations for cardiovascular research: current status and routes to be explored. Consensus document of the ESC Working Group on Myocardial Function and the ESC Working Group on Cellular Biology of the Heart. Cardiovascular Research, 2022, 118, 3016-3051.	3.8	30
54	Effects of Ar and O₂ Plasma Etching on Parylene C: Topography versus Surface Chemistry and the Impact on Cell Viability. Plasma Processes and Polymers, 2016, 13, 324-333.	3.0	29

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55	Harnessing Polyhydroxyalkanoates and Pressurized Gyration for Hard and Soft Tissue Engineering. ACS Applied Materials & Interfaces, 2021, 13, 32624-32639.	8.0	27
56	Myocardial Slices: an Intermediate Complexity Platform for Translational Cardiovascular Research. Cardiovascular Drugs and Therapy, 2019, 33, 239-244.	2.6	25
57	Evaluation of frequency, type, and function of gap junctions between skeletal myoblasts overexpressing connexin43 and cardiomyocytes: relevance to cell transplantation. FASEB Journal, 2006, 20, 744-746.	0.5	24
58	Parylene C-Based Flexible Electronics for pH Monitoring Applications. Sensors, 2014, 14, 11629-11639.	3.8	24
59	Remodelling of adult cardiac tissue subjected to physiological and pathological mechanical load <i>in vitro</i>. Cardiovascular Research, 2022, 118, 814-827.	3.8	24
60	Mechanical unloading and cell therapy have a synergistic role in the recovery and regeneration of the failing heart. European Journal of Cardio-thoracic Surgery, 2012, 42, 312-318.	1.4	23
61	The Fallacy of Assigning Chamber Specificity to iPSC Cardiac Myocytes from Action Potential Morphology. Biophysical Journal, 2016, 110, 281-283.	0.5	23
62	A flexible polyaniline-based bioelectronic patch. Biomaterials Science, 2018, 6, 493-500.	5.4	23
63	In vivo grafting of large engineered heart tissue patches for cardiac repair. JCI Insight, 2021, 6, .	5.0	23
64	The Role of the Cardiac Na+/Ca2+ Exchanger in Reverse Remodeling: Relevance for LVAD-Recovery. Annals of the New York Academy of Sciences, 2007, 1099, 349-360.	3.8	22
65	Biorealistic cardiac cell culture platforms with integrated monitoring of extracellular action potentials. Scientific Reports, 2015, 5, 11067.	3.3	20
66	Concurrent micro- to macro-cardiac electrophysiology in myocyte cultures and human heart slices. Scientific Reports, 2018, 8, 6947.	3.3	20
67	Cell therapy for cardiac repair. British Medical Bulletin, 2010, 94, 65-80.	6.9	19
68	Influence of ivabradine on reverse remodelling during mechanical unloading. Cardiovascular Research, 2013, 97, 230-239.	3.8	19
69	Intact myocardial preparations reveal intrinsic transmural heterogeneity in cardiac mechanics. Journal of Molecular and Cellular Cardiology, 2020, 141, 11-16.	1.9	18
70	Heterotopic abdominal heart transplantation in rats for functional studies of ventricular unloading. Journal of Surgical Research, 2013, 179, e31-e39.	1.6	17
71	Impact of Combined Clenbuterol and Metoprolol Therapy on Reverse Remodelling during Mechanical Unloading. PLoS ONE, 2014, 9, e92909.	2.5	17
72	Integrative Bioinformatic Analyses of Global Transcriptome Data Decipher Novel Molecular Insights into Cardiac Anti-Fibrotic Therapies. International Journal of Molecular Sciences, 2020, 21, 4727.	4.1	17

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73	Adult progenitor cell transplantation influences contractile performance and calcium handling of recipient cardiomyocytes. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 296, H927-H936.	3.2	16
74	Highly purified extracellular vesicles from human cardiomyocytes demonstrate preferential uptake by human endothelial cells. Nanoscale, 2020, 12, 19844-19854.	5.6	16
75	Mechanosensitive molecular mechanisms of myocardial fibrosis in living myocardial slices. ESC Heart Failure, 2022, 9, 1400-1412.	3.1	15
76	The effects of overexpression of the Na+/Ca2+ exchanger on calcium regulation in hypertrophied mouse cardiac myocytes. Cell Calcium, 2004, 36, 111-118.	2.4	14
77	A Gene Expression Profile of the Myocardial Response to Clenbuterol. Journal of Cardiovascular Translational Research, 2009, 2, 191-197.	2.4	13
78	The Effect of <scp>SN</scp>â€6, a Novel Sodiumâ€Calcium Exchange Inhibitor, on Contractility and Calcium Handling in Isolated Failing Rat Ventricular Myocytes. Cardiovascular Therapeutics, 2013, 31, e115-24.	2.5	13
79	Hyperpolarizationâ€Activated Cyclic Nucleotideâ€Gated Channels and Ventricular Arrhythmias in Heart Failure: A Novel Target for Therapy?. Journal of the American Heart Association, 2013, 2, e000287.	3.7	12
80	Multiplexing physical stimulation on single human induced pluripotent stem cell-derived cardiomyocytes for phenotype modulation. Biofabrication, 2021, 13, 025004.	7.1	12
81	Can Bridge to Recovery Help to Reveal the Secrets of the Failing Heart?. Current Cardiology Reports, 2012, 14, 392-396.	2.9	11
82	Partial Mechanical Unloading of the Heart Disrupts L-Type Calcium Channel and Beta-Adrenoceptor Signaling Microdomains. Frontiers in Physiology, 2018, 9, 1302.	2.8	11
83	Human Cardiac Fibroblasts Engage the Sarcoplasmic Reticulum in Induced Pluripotent Stem Cell-Derived Cardiomyocyte Excitationâ€“Contraction Coupling. Journal of the American College of Cardiology, 2018, 72, 1061-1063.	2.8	11
84	Functional Consequences of Na/Ca Exchanger Overexpression in Cardiac Myocytes. Annals of the New York Academy of Sciences, 2002, 976, 520-527.	3.8	10
85	Manipulation of sarcoplasmic reticulum Ca²⁺ release in heart failure through mechanical intervention. Journal of Physiology, 2015, 593, 3253-3259.	2.9	10
86	Surface Chemistry and Microtopography of Parylene C Films Control the Morphology and Microtubule Density of Cardiac Myocytes. Tissue Engineering - Part C: Methods, 2016, 22, 464-472.	2.1	10
87	Induced pluripotent stem cell-derived cardiac myocytes to understand and test calcium handling: Pie in the sky?. Journal of Molecular and Cellular Cardiology, 2015, 89, 376-378.	1.9	9
88	Bridge to Recovery: What Remains to be Discovered?. Cardiology Clinics, 2011, 29, 531-547.	2.2	8
89	Bridge to Recovery and the Search for Decision Nodes. Circulation: Heart Failure, 2011, 4, 393-395.	3.9	8
90	Chronic Treatment with Clenbuterol Modulates Endothelial Progenitor Cells and Circulating Factors in a Murine Model of Cardiomyopathy. Journal of Cardiovascular Translational Research, 2009, 2, 182-190.	2.4	7

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91	Adenovirus-mediated expression of myogenic differentiation factor 1 (MyoD) in equine and human dermal fibroblasts enables their conversion to caffeine-sensitive myotubes. Neuromuscular Disorders, 2014, 24, 250-258.	0.6	7
92	Vascularisation of pluripotent stem cellâ€“derived myocardium: biomechanical insights for physiological relevance in cardiac tissue engineering. Pflugers Archiv European Journal of Physiology, 2021, 473, 1117-1136.	2.8	7
93	A SHIFT from ion channels to clinical practice. Nature Reviews Cardiology, 2010, 7, 669-670.	13.7	6
94	The Holy Grail of LVAD-induced reversal of severe chronic heart failure: the need for integration. European Heart Journal, 2011, 32, 1052-1054.	2.2	6
95	Cardiac t-tubules: where structural plasticity meets functional adaptation. Cardiovascular Research, 2016, 112, 423-425.	3.8	6
96	Polysaccharideâ€Polyplex Nanofilm Coatings Enhance Nanoneedleâ€Based Gene Delivery and Transfection Efficiency. Small, 2022, 18, .	10.0	6
97	Many Cells Make Life Workâ€"Multicellularity in Stem Cell-Based Cardiac Disease Modelling. International Journal of Molecular Sciences, 2018, 19, 3361.	4.1	5
98	CaMKII inhibition reduces arrhythmogenic Ca2+ events in subendocardial cryoinjured rat living myocardial slices. Journal of General Physiology, 2021, 153, .	1.9	5
99	Tissue Engineering Techniques in Cardiac Repair and Disease Modelling. Current Pharmaceutical Design, 2014, 20, 2048-2056.	1.9	5
100	ORM-10103: a significant advance in sodium-calcium exchanger pharmacology?. British Journal of Pharmacology, 2013, 170, 765-767.	5.4	4
101	Calcium Homeostasis in Myogenic Differentiation Factor 1 (MyoD)-Transformed, Virally-Transduced, Skin-Derived Equine Myotubes. PLoS ONE, 2014, 9, e105971.	2.5	3
102	Myocardial Slices - A Novel Platform for In Vitro Biomechanical Studies. Biophysical Journal, 2019, 116, 30a.	0.5	3
103	Extracellular Vesicles from Human Cardiac Fibroblasts Modulate Calcium Cycling in Human Stem Cell-Derived Cardiomyocytes. Cells, 2022, 11, 1171.	4.1	3
104	Less Na/H-exchanger to treat heart failure: a simple solution for a complex problem?. Cardiovascular Research, 2005, 65, 10-12.	3.8	2
105	Structured Culture Scaffolds Improve the Calcium Handling Properties of Cardiomyocytes Differentiated from Induced Pluripotent Stem Cells. Biophysical Journal, 2012, 102, 103a.	0.5	2
106	Microstructured hybrid scaffolds for aligning neonatal rat ventricular myocytes. Materials Science and Engineering C, 2019, 103, 109783.	7.3	2
107	Does Size Matter?. Journal of the American College of Cardiology, 2015, 65, 2154-2156.	2.8	1
108	Human Heart Slices - a Novel Multicellular System Suitable for Electrophysiological and Pharmacological Studies. Biophysical Journal, 2011, 100, 575a.	0.5	0

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109	Recovery of the failing heart: emerging approaches and mechanisms in excitation-contraction coupling. F1000prime Reports, 2014, 6, 27.	5.9	0
110	The use of living myocardial slices as a novel disease model to study cardiac arrhythmogenicity in vitro. Journal of Molecular and Cellular Cardiology, 2020, 140, 49-50.	1.9	0
111	Vascularized Myocardium-On-A-Chip: Excitation-Contraction Coupling in Perfused Cardiac Co-Cultures. Biophysical Journal, 2020, 118, 410a.	0.5	0
112	Regulation of cardiac excitation-contraction coupling by fibroblasts in health and disease. Journal of Molecular and Cellular Cardiology, 2017, 112, 161.	1.9	0
113	Cardiac Excitation-Contraction Coupling. Learning Materials in Biosciences, 2019, , 61-75.	0.4	0