Sian E Harding

List of Publications by Year
in descending order

188 papers	10,835 citations	34105 52 h-index	34986 98 g-index
198 all docs	198 docs citations	198 times ranked	11977 citing authors

#	Article	IF	Citations
1	Stress (Takotsubo) cardiomyopathyâ€”a novel pathophysiological hypothesis to explain catecholamine-induced acute myocardial stunning. Nature Clinical Practice Cardiovascular Medicine, 2008, 5, 22-29.	3.3	694
2	High Levels of Circulating Epinephrine Trigger Apical Cardiodepression in a Î² ₂ -Adrenergic Receptor/G _i â€“Dependent Manner. Circulation, 2012, 126, 697-706.	1.6	625
3	Î² ₂ -Adrenergic Receptor Redistribution in Heart Failure Changes cAMP Compartmentation. Science, 2010, 327, 1653-1657.	12.6	505
4	Characterisation of a soft elastomer poly(glycerol sebacate) designed to match the mechanical properties of myocardial tissue. Biomaterials, 2008, 29, 47-57.	11.4	460
5	Restoration of Contractile Function in Isolated Cardiomyocytes From Failing Human Hearts by Gene Transfer of SERCA2a. Circulation, 1999, 100, 2308-2311.	1.6	454
6	Role of interleukin 6 in myocardial dysfunction of meningococcal septic shock. Lancet, The, 2004, 363, 203-209.	13.7	378
7	Loss of T-tubules and other changes to surface topography in ventricular myocytes from failing human and rat heart. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6854-6859.	7.1	334
8	Biomaterials in cardiac tissue engineering: Ten years of research survey. Materials Science and Engineering Reports, 2008, 59, 1-37.	31.8	315
9	Targeting Phospholamban by Gene Transfer in Human Heart Failure. Circulation, 2002, 105, 904-907.	1.6	261
10	A conducting polymer with enhanced electronic stability applied in cardiac models. Science Advances, 2016, 2, e1601007.	10.3	173
11	Simultaneous Measurement of Ca2+ and Cellular Dynamics: Combined Scanning Ion Conductance and Optical Microscopy to Study Contracting Cardiac Myocytes. Biophysical Journal, 2001, 81, 1759-1764.	0.5	170
12	An elastomeric patch derived from poly(glycerol sebacate) for delivery of embryonic stem cells to the heart. Biomaterials, 2010, 31, 3885-3893.	11.4	168
13	Auxetic Cardiac Patches with Tunable Mechanical and Conductive Properties toward Treating Myocardial Infarction. Advanced Functional Materials, 2018, 28, 1800618.	14.9	167
14	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
15	Myocardial tissue engineering. British Medical Bulletin, 2008, 87, 31-47.	6.9	150
16	SERCA2a Gene Transfer Decreases Sarcoplasmic Reticulum Calcium Leak and Reduces Ventricular Arrhythmias in a Model of Chronic Heart Failure. Circulation: Arrhythmia and Electrophysiology, 2011, 4, 362-372.	4.8	147
17	Modulation of human embryonic stem cell-derived cardiomyocyte growth: A testbed for studying human cardiac hypertrophy?. Journal of Molecular and Cellular Cardiology, 2011, 50, 367-376.	1.9	130
18	SERCA2a gene therapy restores microRNA-1 expression in heart failure via an Akt/FoxO3A-dependent pathway. European Heart Journal, 2012, 33, 1067-1075.	2.2	130

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19	PDGFRÎ± demarcates the cardiogenic clonogenic Sca1+ stem/progenitor cell in adult murine myocardium. Nature Communications, 2015, 6, 6930.	12.8	130
20	Iron Particles for Noninvasive Monitoring of Bone Marrow Stromal Cell Engraftment into, and Isolation of Viable Engrafted Donor Cells from, the Heart. Stem Cells, 2006, 24, 1968-1975.	3.2	123
21	Sarcolemmal Na+/H+ exchanger activity and expression in human ventricular myocardium. Journal of the American College of Cardiology, 2000, 36, 534-540.	2.8	117
22	Ion Channels in Small Cells and Subcellular Structures Can Be Studied with a Smart Patch-Clamp System. Biophysical Journal, 2002, 83, 3296-3303.	0.5	116
23	Ca ²⁺ Cycling and New Therapeutic Approaches for Heart Failure. Circulation, 2010, 121, 822-830.	1.6	111
24	Evidence for protein phosphatase inhibitorâ€1 playing an amplifier role in Î²â€adrenergic signaling in cardiac myocytes. FASEB Journal, 2003, 17, 1-23.	0.5	106
25	Caveolin-3 regulates compartmentation of cardiomyocyte beta2-adrenergic receptor-mediated cAMP signaling. Journal of Molecular and Cellular Cardiology, 2014, 67, 38-48.	1.9	103
26	Human Induced Pluripotent Stem Cell-Derived Cardiomyocyte Encapsulating Bioactive Hydrogels Improve Rat Heart Function Post Myocardial Infarction. Stem Cell Reports, 2017, 9, 1415-1422.	4.8	103
27	Use of Human Induced Pluripotent Stem Cellâ€“Derived Cardiomyocytes in Preclinical Cancer Drug Cardiotoxicity Testing: A Scientific Statement From the American Heart Association. Circulation Research, 2019, 125, e75-e92.	4.5	103
28	Plasticity of Surface Structures and Î² ₂ -Adrenergic Receptor Localization in Failing Ventricular Cardiomyocytes During Recovery From Heart Failure. Circulation: Heart Failure, 2012, 5, 357-365.	3.9	102
29	Hierarchical statistical techniques are necessary to draw reliable conclusions from analysis of isolated cardiomyocyte studies. Cardiovascular Research, 2017, 113, 1743-1752.	3.8	102
30	Specific Î² 2 AR Blocker ICI 118,551 Actively Decreases Contraction Through a G i -Coupled Form of the Î² 2 AR in Myocytes From Failing Human Heart. Circulation, 2002, 105, 2497-2503.	1.6	100
31	The human embryonic stem cell-derived cardiomyocyte as a pharmacological model. , 2007, 113, 341-353.		82
32	Quantifying the Release of Biomarkers of Myocardial Necrosis from Cardiac Myocytes and Intact Myocardium. Clinical Chemistry, 2017, 63, 990-996.	3.2	81
33	SERCA2a Overexpression Decreases the Incidence of Aftercontractions in Adult Rabbit Ventricular Myocytes. Journal of Molecular and Cellular Cardiology, 2001, 33, 1005-1015.	1.9	80
34	Highâ€resolution scanning patchâ€clamp: new insights into cell function. FASEB Journal, 2002, 16, 748-750.	0.5	77
35	Bone marrow-derived stromal cells home to and remain in the infarcted rat heart but fail to improve function: an in vivo cine-MRI study. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 295, H533-H542.	3.2	76
36	Myocardial depressant effects of interleukin 6 in meningococcal sepsis are regulated by p38 mitogen-activated protein kinase*. Critical Care Medicine, 2011, 39, 1692-1711.	0.9	75

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37	Natural Biomaterials for Cardiac Tissue Engineering: A Highly Biocompatible Solution. Frontiers in Cardiovascular Medicine, 2020, 7, 554597.	2.4	74
38	Magnetic Resonance Imaging Evaluation of Remodeling by Cardiac Elastomeric Tissue Scaffold Biomaterials in a Rat Model of Myocardial Infarction. Tissue Engineering - Part A, 2010, 16, 3395-3402.	3.1	73
39	Flecainide reduces Ca2+ spark and wave frequency via inhibition of the sarcolemmal sodium current. Cardiovascular Research, 2013, 98, 286-296.	3.8	73
40	Immunomodulatory interventions in myocardial infarction and heart failure: a systematic review of clinical trials and meta-analysis of IL-1 inhibition. Cardiovascular Research, 2018, 114, 1445-1461.	3.8	71
41	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
42	Biomimetic electromechanical stimulation to maintain adult myocardial slices in vitro. Nature Communications, 2019, 10, 2168.	12.8	68
43	Taurocholate induces changes in rat cardiomyocyte contraction and calcium dynamics. Clinical Science, 2002, 103, 191-200.	4.3	67
44	MAP4K4 Inhibition Promotes Survival of Human Stem Cell-Derived Cardiomyocytes and Reduces Infarct Size InÂVivo. Cell Stem Cell, 2019, 24, 579-591.e12.	11.1	66
45	Characterization of a myocardial depressant factor in meningococcal septicemia*. Critical Care Medicine, 2002, 30, 2191-2198.	0.9	61
46	Scanning ion conductance microscopy: a convergent high-resolution technology for multi-parametric analysis of living cardiovascular cells. Journal of the Royal Society Interface, 2011, 8, 913-925.	3.4	61
47	The case for induced pluripotent stem cellâ€derived cardiomyocytes in pharmacological screening. British Journal of Pharmacology, 2013, 169, 304-317.	5.4	59
48	Innate Immunity in Human Embryonic Stem Cells: Comparison with Adult Human Endothelial Cells. PLoS ONE, 2010, 5, e10501.	2.5	56
49	Molecular Mechanism of the E99K Mutation in Cardiac Actin (ACTC Gene) That Causes Apical Hypertrophy in Man and Mouse. Journal of Biological Chemistry, 2011, 286, 27582-27593.	3.4	56
50	Induced pluripotent stem cell modelling of HLHS underlines the contribution of dysfunctional NOTCH signalling to impaired cardiogenesis. Human Molecular Genetics, 2017, 26, 3031-3045.	2.9	56
51	Myocardial Dysfunction in Donor Hearts. Circulation, 1999, 99, 2565-2570.	1.6	55
52	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
53	A novel Z-groove index characterizing myocardial surface structure. Cardiovascular Research, 2006, 72, 422-429.	3.8	55
54	Redox Regulation of Cardiac ASK1 (Apoptosis Signal-Regulating Kinase 1) Controls p38-MAPK (Mitogen-Activated Protein Kinase) and Orchestrates Cardiac Remodeling to Hypertension. Hypertension, 2020, 76, 1208-1218.	2.7	54

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55	Investigation of a transgenic mouse model of familial dilated cardiomyopathy. Journal of Molecular and Cellular Cardiology, 2010, 49, 380-389.	1.9	53
56	T-tubule remodelling disturbs localized Î²2-adrenergic signalling in rat ventricular myocytes during the progression of heart failure. Cardiovascular Research, 2017, 113, 770-782.	3.8	53
57	Sensitization of Human Atrial 5-HT 4 Receptors by Chronic Î²-Blocker Treatment. Circulation, 1995, 92, 2526-2539.	1.6	53
58	Altered mechanical properties and intracellular calcium signaling in cardiomyocytes from annexin 6 nullâ€mutant mice. FASEB Journal, 2002, 16, 622-624.	0.5	52
59	Investigation of cardiac fibroblasts using myocardial slices. Cardiovascular Research, 2018, 114, 77-89.	3.8	52
60	Overwhelming Evidence of the Beneficial Effects of SERCA Gene Transfer in Heart Failure. Circulation Research, 2001, 88, E66-7.	4.5	51
61	Cardiomyocyte Membrane Structure and cAMP Compartmentation Produce Anatomical Variation in Î²2AR-cAMP Responsiveness in Murine Hearts. Cell Reports, 2018, 23, 459-469.	6.4	51
62	Isogenic Pairs of hiPSC-CMs with Hypertrophic Cardiomyopathy/LVNC-Associated ACTC1 E99K Mutation Unveil Differential Functional Deficits. Stem Cell Reports, 2018, 11, 1226-1243.	4.8	51
63	Cell geometry and contractile abnormalities of myocytes from failing human left ventricle. Cardiovascular Research, 1995, 30, 281-290.	3.8	50
64	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
65	Spatial control of the Î²AR system in heart failure: the transverse tubule and beyond. Cardiovascular Research, 2013, 98, 216-224.	3.8	49
66	The adaptive immune response to cardiac injuryâ€"the true roadblock to effective regenerative therapies?. Npj Regenerative Medicine, 2017, 2, 19.	5.2	49
67	Cross-Priming Dendritic Cells Exacerbate Immunopathology After Ischemic Tissue Damage in the Heart. Circulation, 2021, 143, 821-836.	1.6	49
68	Aberrant Î±-Adrenergic Hypertrophic Response in Cardiomyocytes from Human Induced Pluripotent Cells. Stem Cell Reports, 2014, 3, 905-914.	4.8	46
69	Cardiostimulant and cardiodepressant effects through overexpressed human Î²2-adrenoceptors in murine heart: regional differences and functional role of Î²1-adrenoceptors. Naunyn-Schmiedeberg's Archives of Pharmacology, 2003, 367, 380-390.	3.0	45
70	Systemic autoimmunity induced by the TLR7/8 agonist Resiquimod causes myocarditis and dilated cardiomyopathy in a new mouse model of autoimmune heart disease. DMM Disease Models and Mechanisms, 2017, 10, 259-270.	2.4	45
71	The effect of Gi-protein inactivation on basal, and Î²1 - and Î²2 AR-stimulated contraction of myocytes from transgenic mice overexpressing the Î²2 -adrenoceptor. British Journal of Pharmacology, 2000, 131, 594-600.	5.4	44
72	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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73	Sarcoplasmic Reticulum Ca Content, Sarcolemmal Ca Influx and the Genesis of Arrhythmias in Isolated Guinea-pig Cardiomyocytes. Journal of Molecular and Cellular Cardiology, 2000, 32, 261-272.	1.9	42
74	Assessment of cellular toxicity of TiO₂nanoparticles for cardiac tissue engineering applications. Nanotoxicology, 2011, 5, 372-380.	3.0	42
75	The molecular phenotype of human cardiac myosin associated with hypertrophic obstructive cardiomyopathy. Cardiovascular Research, 2008, 79, 481-491.	3.8	41
76	Overexpression of wildâ€type GÎ±iâ€2 suppresses Î²â€adrenergic signaling in cardiac myocytes. FASEB Journal, 2003, 17, 1-23.	0.5	40
77	<scp>SERCA2a</scp> gene therapy in heart failure: an antiâ€arrhythmic positive inotrope. British Journal of Pharmacology, 2014, 171, 38-54.	5.4	36
78	High speed sCMOS-based oblique plane microscopy applied to the study of calcium dynamics in cardiac myocytes. Journal of Biophotonics, 2016, 9, 311-323.	2.3	36
79	Development of High Content Imaging Methods for Cell Death Detection in Human Pluripotent Stem Cell-Derived Cardiomyocytes. Journal of Cardiovascular Translational Research, 2012, 5, 593-604.	2.4	35
80	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
81	Are there functional Î²₃â€adrenoceptors in the human heart?. British Journal of Pharmacology, 2011, 162, 817-822.	5.4	34
82	Impairment of the ER/mitochondria compartment in human cardiomyocytes with PLN p.Arg14del mutation. EMBO Molecular Medicine, 2021, 13, e13074.	6.9	34
83	Cardiovascular and hormonal effects of calcitonin gene-related peptide in congestive heart failure. Journal of the American College of Cardiology, 1991, 17, 208-217.	2.8	33
84	Stem cellâ€derived endothelial cells for cardiovascular disease: a therapeutic perspective. British Journal of Clinical Pharmacology, 2013, 75, 897-906.	2.4	33
85	The Current and Future Landscape of SERCA Gene Therapy for Heart Failure: A Clinical Perspective. Human Gene Therapy, 2015, 26, 293-304.	2.7	33
86	Profilin modulates sarcomeric organization and mediates cardiomyocyte hypertrophy. Cardiovascular Research, 2016, 110, 238-248.	3.8	31
87	Taurocholate induces changes in rat cardiomyocyte contraction and calcium dynamics. Clinical Science, 2002, 103, 191.	4.3	30
88	Circulating microRNAs predispose to takotsubo syndrome following high-dose adrenaline exposure. Cardiovascular Research, 2022, 118, 1758-1770.	3.8	30
89	Reduced contractile responses to forskolin and a cyclic AMP analogue in myocytes from failing human ventricle. European Journal of Pharmacology, 1992, 223, 39-48.	3.5	29
90	The Role of Gi-proteins andÎ²-Adrenoceptors in the Age-related Decline of Contraction in Guinea-pig Ventricular Myocytes. Journal of Molecular and Cellular Cardiology, 1997, 29, 439-448.	1.9	29

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91	Embryonic stem cellâ€derived cardiomyocytes as a model to study fetal arrhythmia related to maternal disease. Journal of Cellular and Molecular Medicine, 2009, 13, 3730-3741.	3.6	29
92	Type 2 MI induced by a single high dose of isoproterenol in C57BL/6J mice triggers a persistent adaptive immune response against the heart. Journal of Cellular and Molecular Medicine, 2021, 25, 229-243.	3.6	28
93	Î²3-Adrenoceptor redistribution impairs NO/cGMP/PDE2 signalling in failing cardiomyocytes. ELife, 2020, 9, .	6.0	28
94	Mentoring perception, scientific collaboration and research performance: is there a â€˜gender gapâ€™ in academic medicine? An Academic Health Science Centre perspective. Postgraduate Medical Journal, 2016, 92, 581-586.	1.8	27
95	Concise Review: Pluripotent Stem Cell-Derived Cardiac Cells, A Promising Cell Source for Therapy of Heart Failure: Where Do We Stand?. Stem Cells, 2016, 34, 34-43.	3.2	27
96	Harnessing Polyhydroxyalkanoates and Pressurized Gyration for Hard and Soft Tissue Engineering. ACS Applied Materials & Interfaces, 2021, 13, 32624-32639.	8.0	27
97	Overexpression of Î²₁â€adrenoceptors in adult rat ventricular myocytes enhances CGP 12177A cardiostimulation: implications for â€˜putativeâ€™Î²₄â€adrenoceptor pharmacology. British Journal of Pharmacology, 2004, 141, 813-824.	5.4	26
98	Takotsubo Cardiomyopathy and Sepsis. Angiology, 2017, 68, 288-303.	1.8	26
99	Functional Characterization of Embryonic Stem Cell-Derived Cardiomyocytes Using Scanning Ion Conductance Microscopy. Tissue Engineering, 2006, 12, 657-664.	4.6	24
100	The potential of cardiac stem cell therapy for heart failure. Current Opinion in Pharmacology, 2007, 7, 164-170.	3.5	24
101	Computational modeling of Takotsubo cardiomyopathy: effect of spatially varying Î²-adrenergic stimulation in the rat left ventricle. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 307, H1487-H1496.	3.2	24
102	Remodelling of adult cardiac tissue subjected to physiological and pathological mechanical load in vitro. Cardiovascular Research, 2022, 118, 814-827.	3.8	24
103	Non-invasive Imaging of Stem Cells by Scanning Ion Conductance Microscopy: Future Perspective. Tissue Engineering - Part C: Methods, 2008, 14, 311-318.	2.1	23
104	Nuclear pore rearrangements and nuclear trafficking in cardiomyocytes from rat and human failing hearts. Cardiovascular Research, 2015, 105, 31-43.	3.8	23
105	Repolarization abnormalities unmasked with exercise in sudden cardiac death survivors with structurally normal hearts. Journal of Cardiovascular Electrophysiology, 2018, 29, 115-126.	1.7	23
106	In vivo grafting of large engineered heart tissue patches for cardiac repair. JCI Insight, 2021, 6, .	5.0	23
107	Murine ventricular L-type Ca2+ current is enhanced by zinterol via Î²1 -adrenoceptors, and is reduced in TG4 mice overexpressing the human Î²2 -adrenoceptor. British Journal of Pharmacology, 2001, 133, 73-82.	5.4	21
108	An antiadrenergic effect of adenosine on guinea-pig but not rabbit ventricles. European Journal of Pharmacology, 1987, 137, 67-75.	3.5	20

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109	Contraction of cardiac myocytes from noradrenaline-treated rats in response to isoprenaline, forskolin and dibutyryl cAMP. European Journal of Pharmacology, 1990, 191, 129-140.	3.5	19
110	Signaling Via PI3K/FOXO1A Pathway Modulates Formation and Survival of Human Embryonic Stem Cell-Derived Endothelial Cells. Stem Cells and Development, 2015, 24, 869-878.	2.1	18
111	Takotsubo Syndrome. JACC Basic To Translational Science, 2018, 3, 779-781.	4.1	18
112	Intact myocardial preparations reveal intrinsic transmural heterogeneity in cardiac mechanics. Journal of Molecular and Cellular Cardiology, 2020, 141, 11-16.	1.9	18
113	Three Huntingtonâ€™s Disease Specific Mutation-Carrying Human Embryonic Stem Cell Lines Have Stable Number of CAG Repeats upon In Vitro Differentiation into Cardiomyocytes. PLoS ONE, 2015, 10, e0126860.	2.5	17
114	Electrical stimulation applied during differentiation drives the hiPSC-CMs towards a mature cardiac conduction-like cells. Biochemical and Biophysical Research Communications, 2020, 533, 376-382.	2.1	17
115	Gi-dependent suppression of Î²1-adrenoceptor effects in ventricular myocytes from NE-treated guinea pigs. American Journal of Physiology - Heart and Circulatory Physiology, 2000, 278, H1807-H1814.	3.2	16
116	Interaction between increased SERCA2a activity and Î²-adrenoceptor stimulation in adult rabbit myocytes. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H2450-H2457.	3.2	16
117	Gene transfer in cardiac myocytes. Surgical Clinics of North America, 2004, 84, 141-159.	1.5	16
118	Pathogen Sensing Pathways in Human Embryonic Stem Cell Derived-Endothelial Cells: Role of NOD1 Receptors. PLoS ONE, 2014, 9, e91119.	2.5	16
119	Advances in Tissue Engineering. , 2008, , .		16
120	Incomplete reversal of Î²â€adrenoceptor desensitization in human and guineaâ€pig cardiomyocytes by cyclic nucleotide phosphodiesterase inhibitors. British Journal of Pharmacology, 1993, 109, 1071-1078.	5.4	15
121	Estrogen deficiency compromised the Î²2AR-Gs/Gi coupling: implications for arrhythmia and cardiac injury. Pflugers Archiv European Journal of Physiology, 2018, 470, 559-570.	2.8	15
122	The Effect of Alterations to Action Potential Duration on Î²-Adrenoceptor-Mediated Aftercontractions in Human and Guinea-pig Ventricular Myocytes. Journal of Molecular and Cellular Cardiology, 1997, 29, 1457-1467.	1.9	14
123	Functionally Conserved Noncoding Regulators of Cardiomyocyte Proliferation and Regeneration in Mouse and Human. Circulation Genomic and Precision Medicine, 2018, 11, e001805.	3.6	14
124	Functional Evidence for a Cyclic-AMP Related Mechanism of Action of the Î²2-adrenoceptor in Human Ventricular Myocytes. Journal of Molecular and Cellular Cardiology, 2000, 32, 1353-1360.	1.9	13
125	Nitric oxide: not just a negative inotrope. European Journal of Heart Failure, 2001, 3, 527-534.	7.1	13
126	Nanocomposite Elastomeric Biomaterials for Myocardial Tissue Engineering Using Embryonic Stem Cellâ€derived Cardiomyocytes. Advanced Engineering Materials, 2010, 12, B664.	3.5	13

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127	GPER mediates estrogen cardioprotection against epinephrine-induced stress. Journal of Endocrinology, 2021, 249, 209-222.	2.6	13
128	Multiplexing physical stimulation on single human induced pluripotent stem cell-derived cardiomyocytes for phenotype modulation. Biofabrication, 2021, 13, 025004.	7.1	12
129	Title is missing!. Molecular and Cellular Biochemistry, 2003, 251, 103-109.	3.1	11
130	?-Adrenoceptor Blockers as Agonists: Coupling of ?2-Adrenoceptors to Multiple G-Proteins in the Failing Human Heart. Congestive Heart Failure, 2004, 10, 181-187.	2.0	11
131	G-protein Coupled Receptor Signaling in Pluripotent Stem Cell-derived Cardiovascular Cells: Implications for Disease Modeling. Frontiers in Cell and Developmental Biology, 2015, 3, 76.	3.7	11
132	Proteomic Analysis Reveals Temporal Changes in Protein Expression in Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes In Vitro. Stem Cells and Development, 2019, 28, 565-578.	2.1	11
133	Future potential of engineered heart tissue patches for repairing the damage caused by heart attacks. Expert Review of Medical Devices, 2020, 17, 1-3.	2.8	10
134	Age-Dependent Maturation of iPSC-CMs Leads to the Enhanced Compartmentation of Î²2AR-cAMP Signalling. Cells, 2020, 9, 2275.	4.1	10
135	Mediastinal Lymphadenopathy, Class-Switched Auto-Antibodies and Myocardial Immune-Complexes During Heart Failure in Rodents and Humans. Frontiers in Cell and Developmental Biology, 2020, 8, 695.	3.7	10
136	Development a flexible lightâ€sheet fluorescence microscope for highâ€speed 3D imaging of calcium dynamics and 3D imaging of cellular microstructure. Journal of Biophotonics, 2020, 13, e201960239.	2.3	10
137	Triple mode of action of flecainide in catecholaminergic polymorphic ventricular tachycardia: reply. Cardiovascular Research, 2013, 98, 327-328.	3.8	9
138	Multi-cellularity in cardiac tissue engineering, how close are we to native heart tissue?. Journal of Muscle Research and Cell Motility, 2019, 40, 151-157.	2.0	9
139	Cyclic AMP levels in ventricular myocytes from noradrenaline-treated guinea-pigs. European Journal of Pharmacology, 1996, 310, 235-242.	3.5	8
140	Effect of overexpressed adenylyl cyclase VI on Î² 1 - and Î² 2 -adrenoceptor responses in adult rat ventricular myocytes. British Journal of Pharmacology, 2004, 143, 465-476.	5.4	8
141	Non-invasive detection of exercise-induced cardiac conduction abnormalities in sudden cardiac death survivors in the inherited cardiac conditions. Europace, 2021, 23, 305-312.	1.7	8
142	Modelling the interaction between stem cells derived cardiomyocytes patches and host myocardium to aid non-arrhythmic engineered heart tissue design. PLoS Computational Biology, 2022, 18, e1010030.	3.2	8
143	Morphology and vasoactive hormone profiles from endothelial cells derived from stem cells of different sources. Biochemical and Biophysical Research Communications, 2014, 455, 172-177.	2.1	7
144	IDENTIFICATION AND CHARACTERIZATION OF A DYSFUNCTIONAL CARDIAC MYOCYTE PHENOTYPE: ROLE OF BACTERIA, TOLL-LIKE RECEPTORS, AND ENDOTHELIN. Shock, 2007, 28, 434-440.	2.1	6

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145	Authors' response to â€œStress (Takotsubo) cardiomyopathyâ€”a novel pathophysiological hypothesis to explain catecholamine-induced acute myocardial stunningâ€• Nature Clinical Practice Cardiovascular Medicine, 2008, 5, E2-E2.	3.3	6
146	The Mitochondrial Permeability Transition Pore as a Target for Cardioprotection in Hypertrophic Cardiomyopathy. Cardiovascular Drugs and Therapy, 2013, 27, 235-237.	2.6	6
147	Immunosuppressive Agents Modulate Function, Growth, and Survival of Cardiomyocytes and Endothelial Cells Derived from Human Embryonic Stem Cells. Stem Cells and Development, 2014, 23, 467-476.	2.1	6
148	Reversible elimination of myofibrillar Ca²⁺ sensitivity by diamide and other sulfhydryl reagents: comparison with reversible contracture produced in intact cells. Canadian Journal of Physiology and Pharmacology, 1990, 68, 1170-1175.	1.4	5
149	Cardiomyocytes from embryonic stem cells: towards human therapy. Expert Opinion on Biological Therapy, 2008, 8, 1473-1483.	3.1	5
150	Characterization of acute TLR-7 agonist-induced hemorrhagic myocarditis in mice by multi-parametric quantitative cardiac MRI. DMM Disease Models and Mechanisms, 2019, 12, .	2.4	5
151	Development of a pro-arrhythmic ex vivo intact human and porcine model: cardiac electrophysiological changes associated with cellular uncoupling. Pflugers Archiv European Journal of Physiology, 2020, 472, 1435-1446.	2.8	5
152	Contractile effects of adenovirally-mediated increases in SERCA2a activity: A comparison between adult rat and rabbit ventricular myocytes. , 2003, , 103-109.		5
153	Functional and Morphological Maturation of Implanted Neonatal Cardiomyocytes as a Comparator for Cell Therapy. Stem Cells and Development, 2010, 19, 1025-1034.	2.1	4
154	Human stem cellâ€derived cardiomyocytes for pharmacological and toxicological modeling. Annals of the New York Academy of Sciences, 2011, 1245, 48-49.	3.8	4
155	CRISPR/Cas9-mediated generation and analysis of N terminus polymorphic models of Î²2AR in isogenic hPSC-derived cardiomyocytes. Molecular Therapy - Methods and Clinical Development, 2021, 20, 39-53.	4.1	4
156	3D culturing of human pluripotent stem cells-derived endothelial cells for vascular regeneration. Theranostics, 2022, 12, 4684-4702.	10.0	4
157	Takotsubo Syndrome. JACC Basic To Translational Science, 2018, 3, 227-229.	4.1	3
158	Ventricular conduction stability test: a method to identify and quantify changes in whole heart activation patterns during physiological stress. Europace, 2019, 21, 1422-1431.	1.7	3
159	Contractile effects of adenovirally-mediated increases in SERCA2a activity: a comparison between adult rat and rabbit ventricular myocytes. Molecular and Cellular Biochemistry, 2003, 251, 103-9.	3.1	3
160	Modeling Transposition of the Great Arteries with Patient-Specific Induced Pluripotent Stem Cells. International Journal of Molecular Sciences, 2021, 22, 13270.	4.1	3
161	Targeting Genes and Cells in the Progression to Heart Failure. Heart Failure Clinics, 2005, 1, 287-301.	2.1	2
162	The Failing Cardiomyocyte. Heart Failure Clinics, 2005, 1, 171-181.	2.1	2

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163	Electrophysiological Remodeling: Cardiac T-Tubules and ÃŸ-Adrenoceptors. Cells, 2021, 10, 2456.	4.1	2
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