Santiago Roura

List of Publications by Year
in descending order

94 papers	3,555 citations	136740 32 h-index	143772 57 g-index
99 all docs	99 docs citations	99 times ranked	5563 citing authors

#	Article	IF	Citations
1	Regulation of E-cadherin/Catenin Association by Tyrosine Phosphorylation. Journal of Biological Chemistry, 1999, 274, 36734-36740.	1.6	533
2	Atrial Fibrillation Is Associated With Increased Spontaneous Calcium Release From the Sarcoplasmic Reticulum in Human Atrial Myocytes. Circulation, 2004, 110, 1358-1363.	1.6	301
3	Extracellular vesicle isolation methods: rising impact of size-exclusion chromatography. Cellular and Molecular Life Sciences, 2019, 76, 2369-2382.	2.4	224
4	Nanosized UCMSC-derived extracellular vesicles but not conditioned medium exclusively inhibit the inflammatory response of stimulated T cells: implications for nanomedicine. Theranostics, 2017, 7, 270-284.	4.6	155
5	Human progenitor cells derived from cardiac adipose tissue ameliorate myocardial infarction in rodents. Journal of Molecular and Cellular Cardiology, 2010, 49, 771-780.	0.9	104
6	Effect of aging on the pluripotential capacity of human CD105+mesenchymal stem cells. European Journal of Heart Failure, 2006, 8, 555-563.	2.9	99
7	Mechanisms of action of sacubitril/valsartan on cardiac remodeling: a systems biology approach. Npj Systems Biology and Applications, 2017, 3, 12.	1.4	96
8	The role and potential of umbilical cord blood in an era of new therapies: a review. Stem Cell Research and Therapy, 2015, 6, 123.	2.4	85
9	Vascular dysfunction in idiopathic dilated cardiomyopathy. Nature Reviews Cardiology, 2009, 6, 590-598.	6.1	79
10	Identification of Male Cardiomyocytes of Extracardiac Origin in the Hearts of Women with Male Progeny: Male Fetal Cell Microchimerism of the Heart. Journal of Heart and Lung Transplantation, 2005, 24, 2179-2183.	0.3	78
11	Effects of Adipose Tissue-Derived Stem Cell Therapy After Myocardial Infarction: Impact of the Route of Administration. Journal of Cardiac Failure, 2010, 16, 357-366.	0.7	77
12	Human Umbilical Cord Blood-Derived Mesenchymal Stem Cells Promote Vascular Growth In Vivo. PLoS ONE, 2012, 7, e49447.	1.1	70
13	Idiopathic dilated cardiomyopathy exhibits defective vascularization and vessel formation. European Journal of Heart Failure, 2007, 9, 995-1002.	2.9	51
14	Mesenchymal stem cells for cardiac repair: are the actors ready for the clinical scenario?. Stem Cell Research and Therapy, 2017, 8, 238.	2.4	49
15	FGF-4 increases<i>in vitro</i>expansion rate of human adult bone marrow-derived mesenchymal stem cells. Growth Factors, 2007, 25, 71-76.	0.5	47
16	Allogeneic adipose stem cell therapy in acute myocardial infarction. European Journal of Clinical Investigation, 2014, 44, 83-92.	1.7	47
17	IngenierÃa tisular cardiaca y corazÃ³n bioartificial. Revista Espanola De Cardiologia, 2013, 66, 391-399.	0.6	45
18	Head-to-head comparison of two engineered cardiac grafts for myocardial repair: From scaffold characterization to pre-clinical testing. Scientific Reports, 2018, 8, 6708.	1.6	45

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19	Intracoronary Administration of Allogeneic Adipose Tissueâ€“Derived Mesenchymal Stem Cells Improves Myocardial Perfusion But Not Left Ventricle Function, in a Translational Model of Acute Myocardial Infarction. Journal of the American Heart Association, 2017, 6, .	1.6	43
20	Umbilical Cord Blood-Derived Stem Cells Spontaneously Express Cardiomyogenic Traits. Transplantation Proceedings, 2007, 39, 2434-2437.	0.3	41
21	Exposure to cardiomyogenic stimuli fails to transdifferentiate human umbilical cord blood-derived mesenchymal stem cells. Basic Research in Cardiology, 2010, 105, 419-430.	2.5	41
22	Neoinnervation and neovascularization of acellular pericardial-derived scaffolds in myocardial infarcts. Stem Cell Research and Therapy, 2015, 6, 108.	2.4	41
23	Local administration of porcine immunomodulatory, chemotactic and angiogenic extracellular vesicles using engineered cardiac scaffolds for myocardial infarction. Bioactive Materials, 2021, 6, 3314-3327.	8.6	40
24	Cardiac Tissue Engineering and the Bioartificial Heart. Revista Espanola De Cardiologia (English Ed), 2013, 66, 391-399.	0.4	39
25	Postinfarction Functional Recovery Driven by a Three-Dimensional Engineered Fibrin Patch Composed of Human Umbilical Cord Blood-Derived Mesenchymal Stem Cells. Stem Cells Translational Medicine, 2015, 4, 956-966.	1.6	39
26	In vitro comparative study of two decellularization protocols in search of an optimal myocardial scaffold for recellularization. American Journal of Translational Research (discontinued), 2015, 7, 558-73.	0.0	37
27	Fibrin, the preferred scaffold for cell transplantation after myocardial infarction? An old molecule with a new life. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 2304-2313.	1.3	36
28	Mesenchymal Stem Cells Induce Expression of CD73 in Human Monocytes In Vitro and in a Swine Model of Myocardial Infarction In Vivo. Frontiers in Immunology, 2017, 8, 1577.	2.2	36
29	Electrical stimulation of cardiac adipose tissue-derived progenitor cells modulates cell phenotype and genetic machinery. Journal of Tissue Engineering and Regenerative Medicine, 2015, 9, E76-E83.	1.3	35
30	Transposition of a pericardial-derived vascular adipose flap for myocardial salvage after infarct. Cardiovascular Research, 2011, 91, 659-667.	1.8	34
31	Low density lipoprotein receptor-related protein 1 expression correlates with cholesteryl ester accumulation in the myocardium of ischemic cardiomyopathy patients. Journal of Translational Medicine, 2012, 10, 160.	1.8	34
32	Hypoxia Induces Metalloproteinase-9 Activation and Human Vascular Smooth Muscle Cell Migration Through Low-Density Lipoprotein Receptorâ€“Related Protein 1â€“Mediated Pyk2 Phosphorylation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, 2877-2887.	1.1	34
33	Online monitoring of myocardial bioprosthesis for cardiac repair. International Journal of Cardiology, 2014, 174, 654-661.	0.8	34
34	Predictive biomarkers for death and rehospitalization in comorbid frail elderly heart failure patients. BMC Geriatrics, 2018, 18, 109.	1.1	33
35	Acellular cardiac scaffolds enriched with MSC-derived extracellular vesicles limit ventricular remodelling and exert local and systemic immunomodulation in a myocardial infarction porcine model. Theranostics, 2022, 12, 4656-4670.	4.6	33
36	Identification of Cardiomyogenic Lineage Markers in Untreated Human Bone Marrowâ€“Derived Mesenchymal Stem Cells. Transplantation Proceedings, 2005, 37, 4077-4079.	0.3	32

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37	Independent regulation of adherens and tight junctions by tyrosine phosphorylation in Caco-2 cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 1999, 1452, 121-132.	1.9	31
38	Bioluminescence imaging: a shining future for cardiac regeneration. Journal of Cellular and Molecular Medicine, 2013, 17, 693-703.	1.6	31
39	The proarrhythmic antihistaminic drug terfenadine increases spontaneous calcium release in human atrial myocytes. European Journal of Pharmacology, 2006, 553, 215-221.	1.7	29
40	Noninvasive Assessment of an Engineered Bioactive Graft in Myocardial Infarction: Impact on Cardiac Function and Scar Healing. Stem Cells Translational Medicine, 2017, 6, 647-655.	1.6	28
41	First-in-human PeriCord cardiac bioimplant: Scalability and GMP manufacturing of an allogeneic engineered tissue graft. EBioMedicine, 2020, 54, 102729.	2.7	27
42	Commonly used methods for extracellular vesiclesâ€™ enrichment: Implications in downstream analyses and use. European Journal of Cell Biology, 2022, 101, 151227.	1.6	27
43	Chimerism and microchimerism of the human heart: evidence for cardiac regeneration. Nature Clinical Practice Cardiovascular Medicine, 2007, 4, S40-S45.	3.3	26
44	Electromechanical Conditioning of Adult Progenitor Cells Improves Recovery of Cardiac Function After Myocardial Infarction. Stem Cells Translational Medicine, 2017, 6, 970-981.	1.6	26
45	Proteomic signature of circulating extracellular vesicles in dilated cardiomyopathy. Laboratory Investigation, 2018, 98, 1291-1299.	1.7	26
46	Post-infarction scar coverage using a pericardial-derived vascular adipose flap. Pre-clinical results. International Journal of Cardiology, 2013, 166, 469-474.	0.8	23
47	Physiological conditioning by electric field stimulation promotes cardiomyogenic gene expression in human cardiomyocyte progenitor cells. Stem Cell Research and Therapy, 2014, 5, 93.	2.4	23
48	Umbilical cord blood for cardiovascular cell therapy: from promise to fact. Annals of the New York Academy of Sciences, 2012, 1254, 66-70.	1.8	22
49	Comparison of two preclinical myocardial infarct models: coronary coil deployment versus surgical ligation. Journal of Translational Medicine, 2014, 12, 137.	1.8	22
50	Osteogenic commitment of Whartonâ€™s jelly mesenchymal stromal cells: mechanisms and implications for bioprocess development and clinical application. Stem Cell Research and Therapy, 2019, 10, 356.	2.4	22
51	Inverse relationship between raft LRP1 localization and non-raft ERK1,2/MMP9 activation in idiopathic dilated cardiomyopathy: Potential impact in ventricular remodeling. International Journal of Cardiology, 2014, 176, 805-814.	0.8	21
52	Preclinical Evaluation of the Immunomodulatory Properties of Cardiac Adipose Tissue Progenitor Cells Using Umbilical Cord Blood Mesenchymal Stem Cells: A Direct Comparative Study. BioMed Research International, 2015, 2015, 1-9.	0.9	21
53	A Cell-Enriched Engineered Myocardial Graft Limits Infarct Size and Improves Cardiac Function. JACC Basic To Translational Science, 2016, 1, 360-372.	1.9	20
54	Are mesenchymal stem cells and derived extracellular vesicles valuable to halt the COVID-19 inflammatory cascade? Current evidence and future perspectives. Thorax, 2021, 76, 196-200.	2.7	19

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55	Hypoxia-driven sarcoplasmic/endoplasmic reticulum calcium ATPase 2 (SERCA2) downregulation depends on low-density lipoprotein receptor-related protein 1 (LRP1)-signalling in cardiomyocytes. Journal of Molecular and Cellular Cardiology, 2015, 85, 25-36.	0.9	18
56	Umbilical cord blood-derived mesenchymal stem cells: New therapeutic weapons for idiopathic dilated cardiomyopathy?. International Journal of Cardiology, 2014, 177, 809-818.	0.8	16
57	Toward Standardization of Mesenchymal Stromal Cellâ€Derived Extracellular Vesicles for Therapeutic Use: A Call for Action. Proteomics, 2019, 19, e1800397.	1.3	16
58	The Challenges for Cardiac Vascular Precursor Cell Therapy: Lessons from a Very Elusive Precursor. Journal of Vascular Research, 2013, 50, 304-323.	0.6	15
59	Hemosiderin Deposits Confounds Tracking of Iron-Oxide-Labeled Stem Cells: An Experimental Study. Transplantation Proceedings, 2008, 40, 3619-3622.	0.3	14
60	Impact of Umbilical Cord Blood-Derived Mesenchymal Stem Cells on Cardiovascular Research. BioMed Research International, 2015, 2015, 1-6.	0.9	13
61	Mechanisms governing the therapeutic effect of mesenchymal stromal cell-derived extracellular vesicles: A scoping review of preclinical evidence. Biomedicine and Pharmacotherapy, 2022, 147, 112683.	2.5	13
62	First-in-man Safety and Efficacy of the Adipose Graft Transposition Procedure (AGTP) in Patients With a Myocardial Scar. EBioMedicine, 2016, 7, 248-254.	2.7	12
63	Potential of Extracellular Vesicle-Associated TSG-6 from Adipose Mesenchymal Stromal Cells in Traumatic Brain Injury. International Journal of Molecular Sciences, 2020, 21, 6761.	1.8	12
64	Circulating Endothelial Progenitor Cells: Potential Biomarkers for Idiopathic Dilated Cardiomyopathy. Journal of Cardiovascular Translational Research, 2016, 9, 80-84.	1.1	11
65	Preclinical Safety Evaluation of Allogeneic Induced Pluripotent Stem Cell-Based Therapy in a Swine Model of Myocardial Infarction. Tissue Engineering - Part C: Methods, 2017, 23, 736-744.	1.1	10
66	Unravelling the effects of mechanical physiological conditioning on cardiac adipose tissue-derived progenitor cells in vitro and in silico. Scientific Reports, 2018, 8, 499.	1.6	10
67	Extracellular vesicles do not contribute to higher circulating levels of soluble <scp>LRP</scp>1 in idiopathic dilated cardiomyopathy. Journal of Cellular and Molecular Medicine, 2017, 21, 3000-3009.	1.6	9
68	Determination of HLAâ€A, â€B, â€C, â€DRB1 and â€DQB1 allele and haplotype frequencies in heart failure patients. ESC Heart Failure, 2019, 6, 388-395.	1.4	9
69	Circulating monocyte subsets and heart failure prognosis. PLoS ONE, 2018, 13, e0204074.	1.1	8
70	New insights into lipid raft function regulating myocardial vascularization competency in human idiopathic dilated cardiomyopathy. Atherosclerosis, 2013, 230, 354-364.	0.4	7
71	Cardiac Tissue Engineering. Journal of the American College of Cardiology, 2016, 68, 724-726.	1.2	7
72	Variable endothelial cell function restoration after initiation of two antiretroviral regimens in HIV-infected individuals. Journal of Antimicrobial Chemotherapy, 2017, 72, 2049-2054.	1.3	7

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73	Quality and exploitation of umbilical cord blood for cell therapy: Are we beyond our capabilities?. Developmental Dynamics, 2016, 245, 710-717.	0.8	6
74	Telomere attrition in heart failure: a flow-FISH longitudinal analysis of circulating monocytes. Journal of Translational Medicine, 2018, 16, 35.	1.8	6
75	APC 3Ã—15 Î²-catenin-binding domain potentiates Î²-catenin association to TBP and upregulates TCF-4 transcriptional activity. Biochemical and Biophysical Research Communications, 2003, 309, 830-835.	1.0	5
76	Fetal-maternal interface: A chronicle of allogeneic coexistence. Chimerism, 2012, 3, 18-23.	0.7	5
77	Extracellular vesicles: Squeezing every drop of regenerative potential of umbilical cord blood. Metabolism: Clinical and Experimental, 2019, 95, 102-104.	1.5	4
78	Clinical translation of mesenchymal stromal cell extracellular vesicles: Considerations on scientific rationale and production requisites. Journal of Cellular and Molecular Medicine, 2022, 26, 937-939.	1.6	4
79	Inducible expression of p120Cas1B isoform corroborates the role for p120-catenin as a positive regulator of E-cadherin function in intestinal cancer cells. Biochemical and Biophysical Research Communications, 2004, 320, 435-441.	1.0	3
80	Brilliant violet fluorochromes in simultaneous multicolor flow cytometryâ€"fluorescence in situ hybridization measurement of monocyte subsets and telomere length in heart failure. Laboratory Investigation, 2016, 96, 1223-1230.	1.7	3
81	Biotherapies and biomarkers for cardiovascular diseases. European Heart Journal, 2017, 38, 1784-1786.	1.0	3
82	Myocardial healing using cardiac fat. Expert Review of Cardiovascular Therapy, 2018, 16, 305-311.	0.6	3
83	Myocardial bioprosthesis: Mimicking nature. Drugs of the Future, 2013, 38, 475.	0.0	3
84	In Vitro Characterization of the Molecular Machinery Regulating Umbilical Cord Blood Mesenchymal Stem Cell Angiogenesis: A Step Towards Multipotent Stem Cell Therapy for Vascular Regeneration. Journal of Stem Cell Research & Therapy, 2013, 3, .	0.3	3
85	Adipose graft transposition procedure: towards a novel strategy for myocardial scar and fibrosis reduction. European Heart Journal, 2019, 40, 3571-3572.	1.0	2
86	Technical challenges for extracellular vesicle research towards clinical translation. European Heart Journal, 2019, 40, 3359-3360.	1.0	2
87	Our Journey Through Advanced Therapies to Reduce Post-Infarct Scarring. Stem Cell Reviews and Reports, 2021, 17, 1928-1930.	1.7	1
88	Whartonâ€™s Jelly Mesenchymal Stromal Cells and Derived Extracellular Vesicles as Post-Myocardial Infarction Therapeutic Toolkit: An Experienced View. Pharmaceutics, 2021, 13, 1336.	2.0	1
89	Abstract 274: Activation of CaMKII Signaling Pathway Contributes to the Pathogenesis of Genetic Hypertrophic Cardiomyopathy. Circulation Research, 2020, 127, .	2.0	1
90	Deep Learning Analyses to Delineate the Molecular Remodeling Process after Myocardial Infarction. Cells, 2021, 10, 3268.	1.8	1

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91	Porcine iPSC Generation: Testing Different Protocols to a Successful Application. Methods in Molecular Biology, 2021, , 1.	0.4	1
92	Cell Viability in a Cryopreserved Human Cancellous Allograft. Revista EspaÃ±ola De CirugÃa OrtopÃ©dica Y TraumatologÃa, 2008, 52, 27-31.	0.1	0
93	Idiopathic Dilated Cardiomyopathy: Molecular Basis and Distilling Complexity to Advance. , 0, , .		0
94	Materials for cardiac tissue engineering. , 0, , 533-550.		0