

Santiago Roura

List of Publications by Year in descending order

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94
papers

3,555
citations

136950

32
h-index

144013

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. <i>Journal of Biological Chemistry</i> , 1999, 274, 36734-36740.	3.4	533
2	Atrial Fibrillation Is Associated With Increased Spontaneous Calcium Release From the Sarcoplasmic Reticulum in Human Atrial Myocytes. <i>Circulation</i> , 2004, 110, 1358-1363.	1.6	301
3	Extracellular vesicle isolation methods: rising impact of size-exclusion chromatography. <i>Cellular and Molecular Life Sciences</i> , 2019, 76, 2369-2382.	5.4	224
4	Nanosized UCMSC-derived extracellular vesicles but not conditioned medium exclusively inhibit the inflammatory response of stimulated T cells: implications for nanomedicine. <i>Theranostics</i> , 2017, 7, 270-284.	10.0	155
5	Human progenitor cells derived from cardiac adipose tissue ameliorate myocardial infarction in rodents. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 49, 771-780.	1.9	104
6	Effect of aging on the pluripotential capacity of human CD105+mesenchymal stem cells. <i>European Journal of Heart Failure</i> , 2006, 8, 555-563.	7.1	99
7	Mechanisms of action of sacubitril/valsartan on cardiac remodeling: a systems biology approach. <i>Npj Systems Biology and Applications</i> , 2017, 3, 12.	3.0	96
8	The role and potential of umbilical cord blood in an era of new therapies: a review. <i>Stem Cell Research and Therapy</i> , 2015, 6, 123.	5.5	85
9	Vascular dysfunction in idiopathic dilated cardiomyopathy. <i>Nature Reviews Cardiology</i> , 2009, 6, 590-598.	13.7	79
10	Identification of Male Cardiomyocytes of Extracardiac Origin in the Hearts of Women with Male Progeny: Male Fetal Cell Microchimerism of the Heart. <i>Journal of Heart and Lung Transplantation</i> , 2005, 24, 2179-2183.	0.6	78
11	Effects of Adipose Tissue-Derived Stem Cell Therapy After Myocardial Infarction: Impact of the Route of Administration. <i>Journal of Cardiac Failure</i> , 2010, 16, 357-366.	1.7	77
12	Human Umbilical Cord Blood-Derived Mesenchymal Stem Cells Promote Vascular Growth In Vivo. <i>PLoS ONE</i> , 2012, 7, e49447.	2.5	70
13	Idiopathic dilated cardiomyopathy exhibits defective vascularization and vessel formation. <i>European Journal of Heart Failure</i> , 2007, 9, 995-1002.	7.1	51
14	Mesenchymal stem cells for cardiac repair: are the actors ready for the clinical scenario?. <i>Stem Cell Research and Therapy</i> , 2017, 8, 238.	5.5	49
15	FGF-4 increases <i>in vitro</i> expansion rate of human adult bone marrow-derived mesenchymal stem cells. <i>Growth Factors</i> , 2007, 25, 71-76.	1.7	47
16	Allogeneic adipose stem cell therapy in acute myocardial infarction. <i>European Journal of Clinical Investigation</i> , 2014, 44, 83-92.	3.4	47
17	Ingeniería tisular cardiaca y corazón bioartificial. <i>Revista Española De Cardiología</i> , 2013, 66, 391-399.	1.2	45
18	Head-to-head comparison of two engineered cardiac grafts for myocardial repair: From scaffold characterization to pre-clinical testing. <i>Scientific Reports</i> , 2018, 8, 6708.	3.3	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. <i>Journal of the American Heart Association</i> , 2017, 6, .	3.7	43
20	Umbilical Cord Blood-Derived Stem Cells Spontaneously Express Cardiomyogenic Traits. <i>Transplantation Proceedings</i> , 2007, 39, 2434-2437.	0.6	41
21	Exposure to cardiomyogenic stimuli fails to transdifferentiate human umbilical cord blood-derived mesenchymal stem cells. <i>Basic Research in Cardiology</i> , 2010, 105, 419-430.	5.9	41
22	Neoinnervation and neovascularization of acellular pericardial-derived scaffolds in myocardial infarcts. <i>Stem Cell Research and Therapy</i> , 2015, 6, 108.	5.5	41
23	Local administration of porcine immunomodulatory, chemotactic and angiogenic extracellular vesicles using engineered cardiac scaffolds for myocardial infarction. <i>Bioactive Materials</i> , 2021, 6, 3314-3327.	15.6	40
24	Cardiac Tissue Engineering and the Bioartificial Heart. <i>Revista Espanola De Cardiologia (English Ed)</i> , 2013, 66, 391-399.	0.6	39
25	Postinfarction Functional Recovery Driven by a Three-Dimensional Engineered Fibrin Patch Composed of Human Umbilical Cord Blood-Derived Mesenchymal Stem Cells. <i>Stem Cells Translational Medicine</i> , 2015, 4, 956-966.	3.3	39
26	In vitro comparative study of two decellularization protocols in search of an optimal myocardial scaffold for recellularization. <i>American Journal of Translational Research (discontinued)</i> , 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. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 2304-2313.	2.7	36
28	Mesenchymal Stem Cells Induce Expression of CD73 in Human Monocytes In Vitro and in a Swine Model of Myocardial Infarction In Vivo. <i>Frontiers in Immunology</i> , 2017, 8, 1577.	4.8	36
29	Electrical stimulation of cardiac adipose tissue-derived progenitor cells modulates cell phenotype and genetic machinery. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015, 9, E76-E83.	2.7	35
30	Transposition of a pericardial-derived vascular adipose flap for myocardial salvage after infarct. <i>Cardiovascular Research</i> , 2011, 91, 659-667.	3.8	34
31	Low density lipoprotein receptor-related protein 1 expression correlates with cholesteryl ester accumulation in the myocardium of ischemic cardiomyopathy patients. <i>Journal of Translational Medicine</i> , 2012, 10, 160.	4.4	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. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013, 33, 2877-2887.	2.4	34
33	Online monitoring of myocardial bioprosthesis for cardiac repair. <i>International Journal of Cardiology</i> , 2014, 174, 654-661.	1.7	34
34	Predictive biomarkers for death and rehospitalization in comorbid frail elderly heart failure patients. <i>BMC Geriatrics</i> , 2018, 18, 109.	2.7	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. <i>Theranostics</i> , 2022, 12, 4656-4670.	10.0	33
36	Identification of Cardiomyogenic Lineage Markers in Untreated Human Bone Marrowâ€‘Derived Mesenchymal Stem Cells. <i>Transplantation Proceedings</i> , 2005, 37, 4077-4079.	0.6	32

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37	Independent regulation of adherens and tight junctions by tyrosine phosphorylation in Caco-2 cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1999, 1452, 121-132.	4.1	31
38	Bioluminescence imaging: a shining future for cardiac regeneration. <i>Journal of Cellular and Molecular Medicine</i> , 2013, 17, 693-703.	3.6	31
39	The proarrhythmic antihistaminic drug terfenadine increases spontaneous calcium release in human atrial myocytes. <i>European Journal of Pharmacology</i> , 2006, 553, 215-221.	3.5	29
40	Noninvasive Assessment of an Engineered Bioactive Graft in Myocardial Infarction: Impact on Cardiac Function and Scar Healing. <i>Stem Cells Translational Medicine</i> , 2017, 6, 647-655.	3.3	28
41	First-in-human PeriCord cardiac bioimplant: Scalability and GMP manufacturing of an allogeneic engineered tissue graft. <i>EBioMedicine</i> , 2020, 54, 102729.	6.1	27
42	Commonly used methods for extracellular vesiclesâ€™™ enrichment: Implications in downstream analyses and use. <i>European Journal of Cell Biology</i> , 2022, 101, 151227.	3.6	27
43	Chimerism and microchimerism of the human heart: evidence for cardiac regeneration. <i>Nature Clinical Practice Cardiovascular Medicine</i> , 2007, 4, S40-S45.	3.3	26
44	Electromechanical Conditioning of Adult Progenitor Cells Improves Recovery of Cardiac Function After Myocardial Infarction. <i>Stem Cells Translational Medicine</i> , 2017, 6, 970-981.	3.3	26
45	Proteomic signature of circulating extracellular vesicles in dilated cardiomyopathy. <i>Laboratory Investigation</i> , 2018, 98, 1291-1299.	3.7	26
46	Post-infarction scar coverage using a pericardial-derived vascular adipose flap. Pre-clinical results. <i>International Journal of Cardiology</i> , 2013, 166, 469-474.	1.7	23
47	Physiological conditioning by electric field stimulation promotes cardiomyogenic gene expression in human cardiomyocyte progenitor cells. <i>Stem Cell Research and Therapy</i> , 2014, 5, 93.	5.5	23
48	Umbilical cord blood for cardiovascular cell therapy: from promise to fact. <i>Annals of the New York Academy of Sciences</i> , 2012, 1254, 66-70.	3.8	22
49	Comparison of two preclinical myocardial infarct models: coronary coil deployment versus surgical ligation. <i>Journal of Translational Medicine</i> , 2014, 12, 137.	4.4	22
50	Osteogenic commitment of Whartonâ€™™s jelly mesenchymal stromal cells: mechanisms and implications for bioprocess development and clinical application. <i>Stem Cell Research and Therapy</i> , 2019, 10, 356.	5.5	22
51	Inverse relationship between raft LRP1 localization and non-raft ERK1,2/MMP9 activation in idiopathic dilated cardiomyopathy: Potential impact in ventricular remodeling. <i>International Journal of Cardiology</i> , 2014, 176, 805-814.	1.7	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. <i>BioMed Research International</i> , 2015, 2015, 1-9.	1.9	21
53	A Cell-Enriched Engineered Myocardial Graft Limits Infarct Size and Improves Cardiac Function. <i>JACC Basic To Translational Science</i> , 2016, 1, 360-372.	4.1	20
54	Are mesenchymal stem cells and derived extracellular vesicles valuable to halt the COVID-19 inflammatory cascade? Current evidence and future perspectives. <i>Thorax</i> , 2021, 76, 196-200.	5.6	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. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 85, 25-36.	1.9	18
56	Umbilical cord blood-derived mesenchymal stem cells: New therapeutic weapons for idiopathic dilated cardiomyopathy?. <i>International Journal of Cardiology</i> , 2014, 177, 809-818.	1.7	16
57	Toward Standardization of Mesenchymal Stromal Cell-Derived Extracellular Vesicles for Therapeutic Use: A Call for Action. <i>Proteomics</i> , 2019, 19, e1800397.	2.2	16
58	The Challenges for Cardiac Vascular Precursor Cell Therapy: Lessons from a Very Elusive Precursor. <i>Journal of Vascular Research</i> , 2013, 50, 304-323.	1.4	15
59	Hemosiderin Deposits Confounds Tracking of Iron-Oxide-Labeled Stem Cells: An Experimental Study. <i>Transplantation Proceedings</i> , 2008, 40, 3619-3622.	0.6	14
60	Impact of Umbilical Cord Blood-Derived Mesenchymal Stem Cells on Cardiovascular Research. <i>BioMed Research International</i> , 2015, 2015, 1-6.	1.9	13
61	Mechanisms governing the therapeutic effect of mesenchymal stromal cell-derived extracellular vesicles: A scoping review of preclinical evidence. <i>Biomedicine and Pharmacotherapy</i> , 2022, 147, 112683.	5.6	13
62	First-in-man Safety and Efficacy of the Adipose Graft Transposition Procedure (AGTP) in Patients With a Myocardial Scar. <i>EBioMedicine</i> , 2016, 7, 248-254.	6.1	12
63	Potential of Extracellular Vesicle-Associated TSG-6 from Adipose Mesenchymal Stromal Cells in Traumatic Brain Injury. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6761.	4.1	12
64	Circulating Endothelial Progenitor Cells: Potential Biomarkers for Idiopathic Dilated Cardiomyopathy. <i>Journal of Cardiovascular Translational Research</i> , 2016, 9, 80-84.	2.4	11
65	Preclinical Safety Evaluation of Allogeneic Induced Pluripotent Stem Cell-Based Therapy in a Swine Model of Myocardial Infarction. <i>Tissue Engineering - Part C: Methods</i> , 2017, 23, 736-744.	2.1	10
66	Unravelling the effects of mechanical physiological conditioning on cardiac adipose tissue-derived progenitor cells in vitro and in silico. <i>Scientific Reports</i> , 2018, 8, 499.	3.3	10
67	Extracellular vesicles do not contribute to higher circulating levels of soluble LRP1 in idiopathic dilated cardiomyopathy. <i>Journal of Cellular and Molecular Medicine</i> , 2017, 21, 3000-3009.	3.6	9
68	Determination of HLA-A, -B, -C, -DRB1 and -DQB1 allele and haplotype frequencies in heart failure patients. <i>ESC Heart Failure</i> , 2019, 6, 388-395.	3.1	9
69	Circulating monocyte subsets and heart failure prognosis. <i>PLoS ONE</i> , 2018, 13, e0204074.	2.5	8
70	New insights into lipid raft function regulating myocardial vascularization competency in human idiopathic dilated cardiomyopathy. <i>Atherosclerosis</i> , 2013, 230, 354-364.	0.8	7
71	Cardiac Tissue Engineering. <i>Journal of the American College of Cardiology</i> , 2016, 68, 724-726.	2.8	7
72	Variable endothelial cell function restoration after initiation of two antiretroviral regimens in HIV-infected individuals. <i>Journal of Antimicrobial Chemotherapy</i> , 2017, 72, 2049-2054.	3.0	7

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73	Quality and exploitation of umbilical cord blood for cell therapy: Are we beyond our capabilities?. <i>Developmental Dynamics</i> , 2016, 245, 710-717.	1.8	6
74	Telomere attrition in heart failure: a flow-FISH longitudinal analysis of circulating monocytes. <i>Journal of Translational Medicine</i> , 2018, 16, 35.	4.4	6
75	APC 3A–15 β -catenin-binding domain potentiates β -catenin association to TBP and upregulates TCF-4 transcriptional activity. <i>Biochemical and Biophysical Research Communications</i> , 2003, 309, 830-835.	2.1	5
76	Fetal-maternal interface: A chronicle of allogeneic coexistence. <i>Chimerism</i> , 2012, 3, 18-23.	0.7	5
77	Extracellular vesicles: Squeezing every drop of regenerative potential of umbilical cord blood. <i>Metabolism: Clinical and Experimental</i> , 2019, 95, 102-104.	3.4	4
78	Clinical translation of mesenchymal stromal cell extracellular vesicles: Considerations on scientific rationale and production requisites. <i>Journal of Cellular and Molecular Medicine</i> , 2022, 26, 937-939.	3.6	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. <i>Biochemical and Biophysical Research Communications</i> , 2004, 320, 435-441.	2.1	3
80	Brilliant violet fluorochromes in simultaneous multicolor flow cytometry—fluorescence in situ hybridization measurement of monocyte subsets and telomere length in heart failure. <i>Laboratory Investigation</i> , 2016, 96, 1223-1230.	3.7	3
81	Biotherapies and biomarkers for cardiovascular diseases. <i>European Heart Journal</i> , 2017, 38, 1784-1786.	2.2	3
82	Myocardial healing using cardiac fat. <i>Expert Review of Cardiovascular Therapy</i> , 2018, 16, 305-311.	1.5	3
83	Myocardial bioprosthesis: Mimicking nature. <i>Drugs of the Future</i> , 2013, 38, 475.	0.1	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. <i>Journal of Stem Cell Research & Therapy</i> , 2013, 3, .	0.3	3
85	Adipose graft transposition procedure: towards a novel strategy for myocardial scar and fibrosis reduction. <i>European Heart Journal</i> , 2019, 40, 3571-3572.	2.2	2
86	Technical challenges for extracellular vesicle research towards clinical translation. <i>European Heart Journal</i> , 2019, 40, 3359-3360.	2.2	2
87	Our Journey Through Advanced Therapies to Reduce Post-Infarct Scarring. <i>Stem Cell Reviews and Reports</i> , 2021, 17, 1928-1930.	3.8	1
88	Wharton's Jelly Mesenchymal Stromal Cells and Derived Extracellular Vesicles as Post-Myocardial Infarction Therapeutic Toolkit: An Experienced View. <i>Pharmaceutics</i> , 2021, 13, 1336.	4.5	1
89	Abstract 274: Activation of CaMKII Signaling Pathway Contributes to the Pathogenesis of Genetic Hypertrophic Cardiomyopathy. <i>Circulation Research</i> , 2020, 127, .	4.5	1
90	Deep Learning Analyses to Delineate the Molecular Remodeling Process after Myocardial Infarction. <i>Cells</i> , 2021, 10, 3268.	4.1	1

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91	Porcine iPSC Generation: Testing Different Protocols to a Successful Application. Methods in Molecular Biology, 2021, , 1.	0.9	1
92	Cell Viability in a Cryopreserved Human Cancellous Allograft. Revista Española De Cirugía Ortopédica Y Traumatología, 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