JosÃ© MarÃ-a PÃ©rez Pomares

List of Publications by Year
in descending order

77 papers	5,305 citations	101543 36 h-index	102487 66 g-index
78 all docs	78 docs citations	78 times ranked	5199 citing authors

#	Article	IF	Citations
1	Notch promotes epithelial-mesenchymal transition during cardiac development and oncogenic transformation. Genes and Development, 2004, 18, 99-115.	5.9	820
2	Notch Signaling Is Essential for Ventricular Chamber Development. Developmental Cell, 2007, 12, 415-429.	7.0	422
3	The Origin, Formation and Developmental Significance of the Epicardium: A Review. Cells Tissues Organs, 2001, 169, 89-103.	2.3	278
4	The epicardium and epicardially derived cells (EPDCs) as cardiac stem cells. , 2004, 276A, 43-57.		271
5	Experimental Studies on the Spatiotemporal Expression of WT1 and RALDH2 in the Embryonic Avian Heart: A Model for the Regulation of Myocardial and Valvuloseptal Development by Epicardially Derived Cells (EPDCs). Developmental Biology, 2002, 247, 307-326.	2.0	209
6	Epicardially derived fibroblasts preferentially contribute to the parietal leaflets of the atrioventricular valves in the murine heart. Developmental Biology, 2012, 366, 111-124.	2.0	208
7	Integration of a Notch-dependent mesenchymal gene program and Bmp2-driven cell invasiveness regulates murine cardiac valve formation. Journal of Clinical Investigation, 2010, 120, 3493-3507.	8.2	201
8	BMP and FGF regulate the differentiation of multipotential pericardial mesoderm into the myocardial or epicardial lineage. Developmental Biology, 2006, 295, 507-522.	2.0	157
9	The Origin of the Subepicardial Mesenchyme in the Avian Embryo: An Immunohistochemical and Quailâ€"Chick Chimera Study. Developmental Biology, 1998, 200, 57-68.	2.0	151
10	Differential Notch Signaling in the Epicardium Is Required for Cardiac Inflow Development and Coronary Vessel Morphogenesis. Circulation Research, 2011, 108, 824-836.	4.5	149
11	Congenital coronary artery anomalies: a bridge from embryology to anatomy and pathophysiologyâ€"a position statement of the development, anatomy, and pathology ESC Working Group. Cardiovascular Research, 2016, 109, 204-216.	3.8	143
12	Interacting Resident Epicardium-Derived Fibroblasts and Recruited Bone Marrow Cells Form Myocardial Infarction Scar. Journal of the American College of Cardiology, 2015, 65, 2057-2066.	2.8	124
13	Signaling During Epicardium and Coronary Vessel Development. Circulation Research, 2011, 109, 1429-1442.	4.5	122
14	Contribution of the primitive epicardium to the subepicardial mesenchyme in hamster and chick embryos. , 1997, 210, 96-105.		112
15	Wt1 and retinoic acid signaling are essential for stellate cell development and liver morphogenesis. Developmental Biology, 2007, 312, 157-170.	2.0	112
16	Wt1 controls retinoic acid signalling in embryonic epicardium through transcriptional activation of Raldh2. Development (Cambridge), 2011, 138, 1093-1097.	2.5	110
17	Tissue fusion and cell sorting in embryonic development and disease: biomedical implications. BioEssays, 2006, 28, 809-821.	2.5	106
18	Extracardiac septum transversum/proepicardial endothelial cells pattern embryonic coronary arterioâ€"venous connections. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 656-661.	7.1	99

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19	In vivo and in vitro analysis of the vasculogenic potential of avian proepicardial and epicardial cells. Developmental Dynamics, 2006, 235, 1014-1026.	1.8	89
20	Epithelial-mesenchymal transitions: A mesodermal cell strategy for evolutive innovation in Metazoans. The Anatomical Record, 2002, 268, 343-351.	1.8	86
21	The origin of the endothelial cells: an evo-devo approach for the invertebrate/vertebrate transition of the circulatory system. Evolution & Development, 2005, 7, 351-358.	2.0	83
22	Localization of the Wilms' tumour protein WT1 in avian embryos. Cell and Tissue Research, 2001, 303, 173-186.	2.9	75
23	Contribution of mesothelium-derived cells to liver sinusoids in avian embryos. Developmental Dynamics, 2004, 229, 465-474.	1.8	63
24	Epicardial-like cells on the distal arterial end of the cardiac outflow tract do not derive from the proepicardium but are derivatives of the cephalic pericardium. Developmental Dynamics, 2003, 227, 56-68.	1.8	62
25	Early Embryonic Vascular Patterning by Matrix-Mediated Paracrine Signalling: A Mathematical Model Study. PLoS ONE, 2011, 6, e24175.	2.5	57
26	Human Pluripotent Stem Cell Differentiation into Functional Epicardial Progenitor Cells. Stem Cell Reports, 2017, 9, 1754-1764.	4.8	55
27	Retinoic Acid and VEGF Delay Smooth Muscle Relative to Endothelial Differentiation to Coordinate Inner and Outer Coronary Vessel Wall Morphogenesis. Circulation Research, 2010, 107, 204-216.	4.5	52
28	Differentiation of hemangioblasts from embryonic mesothelial cells? A model on the origin of the vertebrate cardiovascular system. Differentiation, 1999, 64, 133-141.	1.9	50
29	Polyamines Are Present in Mast Cell Secretory Granules and Are Important for Granule Homeostasis. PLoS ONE, 2010, 5, e15071.	2.5	49
30	Development of the coronary arteries in a murine model of transposition of great arteries. Journal of Molecular and Cellular Cardiology, 2003, 35, 795-802.	1.9	47
31	The embryonic epicardium: an essential element of cardiac development. Journal of Cellular and Molecular Medicine, 2010, 14, 2066-2072.	3.6	47
32	Differentiation of hemangioblasts from embryonic mesothelial cells? A model on the origin of the vertebrate cardiovascular system. Differentiation, 1999, 64, 133.	1.9	46
33	Building the vertebrate heart - an evolutionary approach to cardiac development. International Journal of Developmental Biology, 2009, 53, 1427-1443.	0.6	44
34	Cellular precursors of the coronary arteries. Texas Heart Institute Journal, 2002, 29, 243-9.	0.3	44
35	Immunolocalization of the transcription factor Slug in the developing avian heart. Anatomy and Embryology, 2000, 201, 103-109.	1.5	39
36	Cardiac electrical defects in progeroid mice and Hutchinsonâ€“Gilford progeria syndrome patients with nuclear lamina alterations. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E7250-E7259.	7.1	39

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37	Characterization of Epicardial-Derived Cardiac Interstitial Cells: Differentiation and Mobilization of Heart Fibroblast Progenitors. PLoS ONE, 2013, 8, e53694.	2.5	38
38	Epicardial development in lamprey supports an evolutionary origin of the vertebrate epicardium from an ancestral pronephric external glomerulus. Evolution & Development, 2008, 10, 210-216.	2.0	37
39	Immunoreactivity of the ets-1 transcription factor correlates with areas of epithelial-mesenchymal transition in the developing avian heart. Anatomy and Embryology, 1998, 198, 307-315.	1.5	33
40	In vitro self-assembly of proepicardial cell aggregates: An embryonic vasculogenic model for vascular tissue engineering. The Anatomical Record Part A: Discoveries in Molecular, Cellular, and Evolutionary Biology, 2006, 288A, 700-713.	2.0	25
41	A simple technique of image analysis for specific nuclear immunolocalization of proteins. Journal of Microscopy, 2007, 225, 96-99.	1.8	24
42	Myocardial Bmp2 gain causes ectopic EMT and promotes cardiomyocyte proliferation and immaturity. Cell Death and Disease, 2018, 9, 399.	6.3	24
43	Immunolocalization of the vascular endothelial growth factor receptor-2 in the subepicardial mesenchyme of hamster embryos: identification of the coronary vessel precursors. The Histochemical Journal, 1998, 30, 627-634.	0.6	22
44	A modified Chorioallantoic Membrane Assay Allows for Specific Detection of Endothelial Apoptosis Induced by Antiangiogenic Substances. Angiogenesis, 2003, 6, 251-254.	7.2	20
45	MODELLING VASCULAR MORPHOGENESIS: CURRENT VIEWS ON BLOOD VESSELS DEVELOPMENT. Mathematical Models and Methods in Applied Sciences, 2009, 19, 1483-1537.	3.3	19
46	The expanding role of the epicardium and epicardial-derived cells in cardiac development and disease. Current Opinion in Pediatrics, 2012, 24, 569-576.	2.0	19
47	A turn-on two-photon fluorescent probe for detecting lysosomal hydroxyl radicals in living cells. Sensors and Actuators B: Chemical, 2019, 284, 744-750.	7.8	18
48	Immunohistochemical evidence for a mesothelial contribution to the ventral wall of the avian aorta. The Histochemical Journal, 1999, 31, 771-779.	0.6	17
49	Indolenine-Based Derivatives as Customizable Two-Photon Fluorescent Probes for pH Bioimaging in Living Cells. ACS Sensors, 2020, 5, 1068-1074.	7.8	16
50	Cardiogenesis: An Embryological Perspective. Journal of Cardiovascular Translational Research, 2010, 3, 37-48.	2.4	15
51	Cell-based therapies for the treatment of myocardial infarction: lessons from cardiac regeneration and repair mechanisms in non-human vertebrates. Heart Failure Reviews, 2019, 24, 133-142.	3.9	12
52	Understanding the Adult Mammalian Heart at Single-Cell RNA-Seq Resolution. Frontiers in Cell and Developmental Biology, 2021, 9, 645276.	3.7	11
53	Bmi1-Progenitor Cell Ablation Impairs the Angiogenic Response to Myocardial Infarction. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, 2160-2173.	2.4	11
54	Avian embryonic coronary arterioâ€venous patterning involves the contribution of different endothelial and endocardial cell populations. Developmental Dynamics, 2018, 247, 686-698.	1.8	9

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55	Development of the Myocardial Interstitium. Anatomical Record, 2019, 302, 58-68.	1.4	8
56	A New Versatile Platform for Assessment of Improved Cardiac Performance in Human-Engineered Heart Tissues. Journal of Personalized Medicine, 2022, 12, 214.	2.5	8
57	The Epicardium and Coronary Artery Formation. Journal of Developmental Biology, 2013, 1, 186-202.	1.7	7
58	A chick embryo cryoinjury model for the study of embryonic organ development and repair. Differentiation, 2016, 91, 72-77.	1.9	7
59	Platinum-Doped Dendritic Structure as a Phosphorescent Label for Bacteria in Two-Photon Excitation Microscopy. ACS Omega, 2019, 4, 13027-13033.	3.5	7
60	Immunohistochemical Study of the Origin of the Subepicardial Mesenchyme in the Dogfish (<i>Scyliorhinus canicula</i>). Acta Zoologica, 1998, 79, 335-342.	0.8	5
61	Synthesis of Amino Terminal Clicked Dendrimers. Approaches to the Application as a Biomarker. Journal of Organic Chemistry, 2019, 84, 10197-10208.	3.2	5
62	Myocardialâ€"Coronary Interactions. Circulation Research, 2008, 102, 513-515.	4.5	3
63	Origin of the Vertebrate Endothelial Cell Lineage. , 2010, , 465-486.		3
64	Poster session 2. Cardiovascular Research, 2012, 93, S52-S87.	3.8	3
65	Cellular identities in an unusual presentation of cyclopia in a chick embryo. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2019, 332, 179-186.	1.3	3
66	Fsp1 cardiac embryonic expression delineates atrioventricular endocardial cushion, coronary venous and lymphatic valve development. Journal of Anatomy, 2021, 238, 508-514.	1.5	3
67	Bone marrow contribution to the heart from development to adulthood. Seminars in Cell and Developmental Biology, 2021, 112, 16-26.	5.0	2
68	In Vivo and In Vitro Cartilage Differentiation from Embryonic Epicardial Progenitor Cells. International Journal of Molecular Sciences, 2022, 23, 3614.	4.1	2
69	Signaling Pathways in Valve Formation. , 2010, , 389-413.		1
70	Molecular Pathways and Animal Models of Coronary Artery Anomalies. , 2016, , 541-552.		1
71	Proepicardial Origin of Developing Coronary Vessels. Revista Espanola De Cardiologia (English Ed), 2019, 72, 163.	0.6	1
72	Epithelial-mesenchymal transitions in the developing heart of the dogfish (Scyliorhinus canicula). A scanning electron microscopic study. Acta Zoologica, 1999, 80, 231-239.	0.8	0

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73	P347Epicardial-derived interstitial fibroblasts and bone marrow-derived cell interaction determines post-infarction ventricular remodeling. Cardiovascular Research, 2014, 103, S63.3-S63.	3.8	0
74	P314Ontogenetic contribution of mesodermal pro/epicardial cell lineages to coronary endothelium. Cardiovascular Research, 2014, 103, S57.2-S57.	3.8	0
75	Epicardium and Coronary Arteries. , 2016, , 63-70.		0
76	Training biochemistry students in experimental developmental biology: Induction of cardia bifida formation in the chick embryo. Biochemistry and Molecular Biology Education, 2021, 49, 782-788.	1.2	0
77	Embryonic Epicardial Cell Lineages: Making and Unmaking a Heart. FASEB Journal, 2008, 22, 384.3.	0.5	0