Ramon Munoz-Chapuli

List of Publications by Year
in descending order

93 papers	4,985 citations	94381 37 h-index	98753 67 g-index
96 all docs	96 docs citations	96 times ranked	5583 citing authors

#	Article	IF	Citations
1	Visceral and subcutaneous fat have different origins and evidence supports a mesothelial source. Nature Cell Biology, 2014, 16, 367-375.	4.6	422
2	Wt1 is required for cardiovascular progenitor cell formation through transcriptional control of Snail and E-cadherin. Nature Genetics, 2010, 42, 89-93.	9.4	315
3	The Origin, Formation and Developmental Significance of the Epicardium: A Review. Cells Tissues Organs, 2001, 169, 89-103.	1.3	278
4	Angiogenesis and signal transduction in endothelial cells. Cellular and Molecular Life Sciences, 2004, 61, 2224-43.	2.4	274
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.	0.9	209
6	Origin of coronary endothelial cells from epicardial mesothelium in avian embryos. International Journal of Developmental Biology, 2002, 46, 1005-13.	0.3	200
7	Hyperplastic Conotruncal Endocardial Cushions and Transposition of Great Arteries in Perlecan-Null Mice. Circulation Research, 2002, 91, 158-164.	2.0	155
8	The Origin of the Subepicardial Mesenchyme in the Avian Embryo: An Immunohistochemical and Quailâ€“Chick Chimera Study. Developmental Biology, 1998, 200, 57-68.	0.9	151
9	Anti-angiogenic drugs: from bench to clinical trials. Medicinal Research Reviews, 2006, 26, 483-530.	5.0	146
10	Contribution of the primitive epicardium to the subepicardial mesenchyme in hamster and chick embryos. , 1997, 210, 96-105.		112
11	Wt1 and retinoic acid signaling are essential for stellate cell development and liver morphogenesis. Developmental Biology, 2007, 312, 157-170.	0.9	112
12	Wt1 controls retinoic acid signalling in embryonic epicardium through transcriptional activation of Raldh2. Development (Cambridge), 2011, 138, 1093-1097.	1.2	110
13	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.	3.3	99
14	Antiangiogenic activity of aeroplysininâ€•1, a brominated compound isolated from a marine sponge. FASEB Journal, 2002, 16, 1-27.	0.2	95
15	In vivo and in vitro analysis of the vasculogenic potential of avian proepicardial and epicardial cells. Developmental Dynamics, 2006, 235, 1014-1026.	0.8	89
16	Role of Vitamin A/Retinoic Acid in Regulation of Embryonic and Adult Hematopoiesis. Nutrients, 2017, 9, 159.	1.7	88
17	Epithelial-mesenchymal transitions: A mesodermal cell strategy for evolutive innovation in Metazoans. The Anatomical Record, 2002, 268, 343-351.	2.3	86
18	A right-handed signalling pathway drives heart looping in vertebrates. Nature, 2017, 549, 86-90.	13.7	85

#	ARTICLE	IF	CITATIONS
19	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.	1.1	83
20	Localization of the Wilms' tumour protein WT1 in avian embryos. Cell and Tissue Research, 2001, 303, 173-186.	1.5	75
21	Fusion of valve cushions as a key factor in the formation of congenital bicuspid aortic valves in Syrian hamsters. , 1996, 244, 490-498.		74
22	Contribution of mesothelium-derived cells to liver sinusoids in avian embryos. Developmental Dynamics, 2004, 229, 465-474.	0.8	63
23	Wt1-expressing progenitors contribute to multiple tissues in the developing lung. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2013, 305, L322-L332.	1.3	59
24	Study of puupehenone and related compounds as inhibitors of angiogenesis. International Journal of Cancer, 2004, 110, 31-38.	2.3	57
25	GATA4 loss in the septum transversum mesenchyme promotes liver fibrosis in mice. Hepatology, 2014, 59, 2358-2370.	3.6	53
26	The evolutionary origins of chordate hematopoiesis and vertebrate endothelia. Developmental Biology, 2013, 375, 182-192.	0.9	52
27	Developmental and tumoral vascularization is regulated by G proteinÃ¢â,¬â€œcoupled receptor kinase 2. Journal of Clinical Investigation, 2013, 123, 4714-4730.	3.9	52
28	Differentiation of hemangioblasts from embryonic mesothelial cells? A model on the origin of the vertebrate cardiovascular system. Differentiation, 1999, 64, 133-141.	1.0	50
29	Challenges of antiangiogenic cancer therapy: trials and errors, and renewed hope. Journal of Cellular and Molecular Medicine, 2007, 11, 374-382.	1.6	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.	0.9	47
31	The embryonic epicardium: an essential element of cardiac development. Journal of Cellular and Molecular Medicine, 2010, 14, 2066-2072.	1.6	47
32	Differentiation of hemangioblasts from embryonic mesothelial cells? A model on the origin of the vertebrate cardiovascular system. Differentiation, 1999, 64, 133.	1.0	46
33	Evolution of angiogenesis. International Journal of Developmental Biology, 2011, 55, 345-351.	0.3	45
34	Building the vertebrate heart - an evolutionary approach to cardiac development. International Journal of Developmental Biology, 2009, 53, 1427-1443.	0.3	44
35	Cellular precursors of the coronary arteries. Texas Heart Institute Journal, 2002, 29, 243-9.	0.1	44
36	Do Not Say Ever Never More: The Ins and Outs of Antiangiogenic Therapies. Current Pharmaceutical Design, 2010, 16, 3932-3957.	0.9	43

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37	Conditional deletion of WT1 in the septum transversum mesenchyme causes congenital diaphragmatic hernia in mice. ELife, 2016, 5, .	2.8	41
38	Coelomic epitheliumâ€derived cells in visceral morphogenesis. Developmental Dynamics, 2016, 245, 307-322.	0.8	40
39	Immunolocalization of the transcription factor Slug in the developing avian heart. Anatomy and Embryology, 2000, 201, 103-109.	1.5	39
40	Epicardial development in lamprey supports an evolutionary origin of the vertebrate epicardium from an ancestral pronephric external glomerulus. Evolution & Development, 2008, 10, 210-216.	1.1	37
41	Cells Derived from the Coelomic Epithelium Contribute to Multiple Gastrointestinal Tissues in Mouse Embryos. PLoS ONE, 2013, 8, e55890.	1.1	37
42	The Role of WT1 in Embryonic Development and Normal Organ Homeostasis. Methods in Molecular Biology, 2016, 1467, 23-39.	0.4	36
43	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
44	Two genes encoding distinct cytosolic glutamine synthetases are closely linked in the pine genome. FEBS Letters, 2000, 477, 237-243.	1.3	32
45	Met signaling in cardiomyocytes is required for normal cardiac function in adult mice. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2013, 1832, 2204-2215.	1.8	29
46	Development of the subepicardial mesenchyme and the early cardiac vessels in the dogfish (Scyliorhinus canicula). The Journal of Experimental Zoology, 1996, 275, 95-111.	1.4	27
47	Molecular evolution of nitric oxide synthases in metazoans. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2010, 5, 295-301.	0.4	27
48	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
49	The Effects of Calcitonin on Serum Calcium Levels in Immature Brown Trout, Salmo trutta. General and Comparative Endocrinology, 1995, 97, 42-48.	0.8	24
50	A simple technique of image analysis for specific nuclear immunolocalization of proteins. Journal of Microscopy, 2007, 225, 96-99.	0.8	24
51	C3G promotes a selective release of angiogenic factors from activated mouse platelets to regulate angiogenesis and tumor metastasis. Oncotarget, 2017, 8, 110994-111011.	0.8	24
52	Development of the coronary arteries and cardiac veins in the dogfish (Scyliorhinus canicula). The Anatomical Record, 1993, 235, 436-442.	2.3	22
53	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
54	Epicardial cell lineages and the origin of the coronary endothelium. FASEB Journal, 2020, 34, 5223-5239.	0.2	22

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55	Anatomical studies of the coronary system in elasmobranchs: I. Coronary arteries in lamnoid sharks. American Journal of Anatomy, 1990, 187, 303-310.	0.9	21
56	Anatomy and development of the sinoatrial valves in the dogfish(Scyliorhinus canicula). , 1997, 248, 224-232.		21
57	A modified Chorioallantoic Membrane Assay Allows for Specific Detection of Endothelial Apoptosis Induced by Antiangiogenic Substances. Angiogenesis, 2003, 6, 251-254.	3.7	20
58	Anatomy and histology of the cardiac conal valves of the adult dogfish (Scyliorhinus canicula). The Anatomical Record, 1995, 241, 496-504.	2.3	19
59	GATA4 induces liver fibrosis regression by deactivating hepatic stellate cells. JCI Insight, 2021, 6, .	2.3	19
60	The Insulin-like Growth Factor Signalling Pathway in Cardiac Development and Regeneration. International Journal of Molecular Sciences, 2022, 23, 234.	1.8	19
61	Morphological comparison ofSqualus blainvillei andS. megalops in the Eastern Atlantic, with notes on the genus. Japanese Journal of Ichthyology, 1989, 36, 6-21.	0.1	18
62	IB05204, a dichloropyridodithienotriazine, inhibits angiogenesis <i>in vitro</i> and <i>in vivo</i>. Molecular Cancer Therapeutics, 2007, 6, 2675-2685.	1.9	18
63	Myc overexpression enhances epicardial contribution to the developing heart and promotes extensive expansion of the cardiomyocyte population. Scientific Reports, 2016, 6, 35366.	1.6	18
64	Immunohistochemical evidence for a mesothelial contribution to the ventral wall of the avian aorta. The Histochemical Journal, 1999, 31, 771-779.	0.6	17
65	Peritoneal repairing cells: a type of bone marrow derived progenitor cells involved in mesothelial regeneration. Journal of Cellular and Molecular Medicine, 2011, 15, 1200-1209.	1.6	17
66	Embryonic circulating endothelial progenitor cells. Angiogenesis, 2020, 23, 531-541.	3.7	16
67	Cardiogenesis: An Embryological Perspective. Journal of Cardiovascular Translational Research, 2010, 3, 37-48.	1.1	15
68	Coronary arteriosclerosis in dogfish (Scyliorhinus canicula). An assessment of some potential risk factors.. Arteriosclerosis and Thrombosis: A Journal of Vascular Biology, 1993, 13, 876-885.	3.8	13
69	Role of the Wilms' tumor suppressor gene <i>Wt1</i> in pancreatic development. Developmental Dynamics, 2018, 247, 924-933.	0.8	13
70	Retinoids in Stellate Cells: Development, Repair, and Regeneration. Journal of Developmental Biology, 2019, 7, 10.	0.9	13
71	Anatomical studies of the coronary system in elasmobranchs: II. Coronary arteries in hexanchoid, squaloid, and carcharhinoid sharks. The Anatomical Record, 1992, 233, 429-439.	2.3	12
72	Comparative developmental biology of the cardiac inflow tract. Journal of Molecular and Cellular Cardiology, 2018, 116, 155-164.	0.9	11

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73	The Wilmsâ€™ tumor suppressor gene regulates pancreas homeostasis and repair. PLoS Genetics, 2019, 15, e1007971.	1.5	10
74	Mesothelial-mesenchymal transitions in embryogenesis. Seminars in Cell and Developmental Biology, 2019, 92, 37-44.	2.3	10
75	A population of hematopoietic stem cells derives from GATA4-expressing progenitors located in the placenta and lateral mesoderm of mice. Haematologica, 2017, 102, 647-655.	1.7	8
76	Deletion of the Wilmsâ€™ Tumor Suppressor Gene in the Cardiac Troponin-T Lineage Reveals Novel Functions of WT1 in Heart Development. Frontiers in Cell and Developmental Biology, 2021, 9, 683861.	1.8	8
77	Tools and Techniques for Wt1-Based Lineage Tracing. Methods in Molecular Biology, 2016, 1467, 41-59.	0.4	7
78	Coronary myointimal lesions in the dogfish shark Scyliorhinus canicula. Journal of Comparative Pathology, 1991, 105, 387-395.	0.1	6
79	Evolutionary Origin of the Proepicardium. Journal of Developmental Biology, 2013, 1, 3-19.	0.9	6
80	The proepicardium keeps a potential for glomerular marker expression which supports its evolutionary origin from the pronephros. Evolution & Development, 2015, 17, 224-230.	1.1	6
81	A Reaction-Diffusion Model can Account for the Anatomical Pattern of the Cardiac Conal Valves in Fish. Journal of Theoretical Biology, 1997, 185, 233-240.	0.8	5
82	Immunohistochemical Study of the Origin of the Subepicardial Mesenchyme in the Dogfish (<i>Scyliorhinus canicula</i>). Acta Zoologica, 1998, 79, 335-342.	0.6	5
83	Intra and interspecific association of large pelagic fishes inferred from catch data of surface longline. Environmental Biology of Fishes, 1992, 35, 95-103.	0.4	4
84	Origin of the Vertebrate Endothelial Cell Lineage. , 2010, , 465-486.		3
85	Poster session 2. Cardiovascular Research, 2012, 93, S52-S87.	1.8	3
86	Signaling by Retinoic Acid in Embryonic and Adult Hematopoiesis. Journal of Developmental Biology, 2014, 2, 18-33.	0.9	3
87	DTD, an antiâ€inflammatory ditriazine, inhibits angiogenesis <i>in vitro</i> and <i>in vivo</i>. Journal of Cellular and Molecular Medicine, 2008, 12, 1211-1219.	1.6	2
88	Epilogue: Comparative cardiovascular biology of lower vertebrates. The Journal of Experimental Zoology, 1996, 275, 249-251.	1.4	1
89	Contribution of a GATA4-Expressing Hematopoietic Progenitor Lineage to the Adult Mouse Endothelium. Cells, 2020, 9, 1257.	1.8	1
90	Epithelial-mesenchymal transitions in the developing heart of the dogfish (Scyliorhinus canicula). A scanning electron microscopic study. Acta Zoologica, 1999, 80, 231-239.	0.6	0

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91	03-P107 EMT regulated by Wt1 through transcriptional control of Snail-1 and E-cadherin is required for generation of progenitor cells in epicardium and ES cells. Mechanisms of Development, 2009, 126, S98-S99.	1.7	0
92	P314Ontogenetic contribution of mesodermal pro/epicardial cell lineages to coronary endothelium. Cardiovascular Research, 2014, 103, S57.2-S57.	1.8	0
93	Epicardial cell transformation. FASEB Journal, 2010, 24, 62.1.	0.2	0