Marie Jose Goumans

List of Publications by Year
in descending order

299 papers	18,922 citations	11608 70 h-index	14156 128 g-index
306 all docs	306 docs citations	306 times ranked	22465 citing authors

#	Article	IF	Citations
1	Balancing the activation state of the endothelium via two distinct TGF-beta type I receptors. EMBO Journal, 2002, 21, 1743-1753.	3.5	972
2	Activin Receptor-like Kinase (ALK)1 Is an Antagonistic Mediator of Lateral TGFÎ²/ALK5 Signaling. Molecular Cell, 2003, 12, 817-828.	4.5	631
3	Endoglin promotes endothelial cell proliferation and TGF-Î²/ALK1 signal transduction. EMBO Journal, 2004, 23, 4018-4028.	3.5	592
4	Abnormal angiogenesis but intact hematopoietic potential in TGF-beta type I receptor-deficient mice. EMBO Journal, 2001, 20, 1663-1673.	3.5	488
5	TGF-Î² signaling in vascular biology and dysfunction. Cell Research, 2009, 19, 116-127.	5.7	476
6	Signaling of transforming growth factor-Î² family members through Smad proteins. FEBS Journal, 2000, 267, 6954-6967.	0.2	466
7	Defined Engineered Human Myocardium With Advanced Maturation for Applications in Heart Failure Modeling and Repair. Circulation, 2017, 135, 1832-1847.	1.6	462
8	Regulation of cell proliferation by Smad proteins. Journal of Cellular Physiology, 2002, 191, 1-16.	2.0	418
9	Human mesenchymal stem cell-conditioned medium improves cardiac function following myocardial infarction. Stem Cell Research, 2011, 6, 206-214.	0.3	379
10	Signaling by members of the TGF-Î² family in vascular morphogenesis and disease. Trends in Cell Biology, 2010, 20, 556-567.	3.6	348
11	Controlling the Angiogenic SwitchA Balance between Two Distinct TGF-b Receptor Signaling Pathways. Trends in Cardiovascular Medicine, 2003, 13, 301-307.	2.3	302
12	MicroRNA-1 and -499 Regulate Differentiation and Proliferation in Human-Derived Cardiomyocyte Progenitor Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 859-868.	1.1	302
13	Toll-Like Receptor 4 Mediates Maladaptive Left Ventricular Remodeling and Impairs Cardiac Function After Myocardial Infarction. Circulation Research, 2008, 102, 257-264.	2.0	298
14	Endoglin in angiogenesis and vascular diseases. Angiogenesis, 2008, 11, 79-89.	3.7	291
15	Stimulation of Id1 Expression by Bone Morphogenetic Protein Is Sufficient and Necessary for Bone Morphogenetic Proteinâ€“Induced Activation of Endothelial Cells. Circulation, 2002, 106, 2263-2270.	1.6	280
16	Human cardiomyocyte progenitor cells differentiate into functional mature cardiomyocytes: an in vitro model for studying human cardiac physiology and pathophysiology. Nature Protocols, 2009, 4, 232-243.	5.5	276
17	Higher functionality of extracellular vesicles isolated using size-exclusion chromatography compared to ultracentrifugation. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 2061-2065.	1.7	268
18	Increase in ALK1/ALK5 Ratio as a Cause for Elevated MMP-13 Expression in Osteoarthritis in Humans and Mice. Journal of Immunology, 2009, 182, 7937-7945.	0.4	251

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19	Mutations in a TGF-Î² Ligand, TGFB3, CauseÂSyndromic Aortic Aneurysms andÂDissections. Journal of the American College of Cardiology, 2015, 65, 1324-1336.	1.2	238
20	TGF-Î² Signaling in Control of Cardiovascular Function. Cold Spring Harbor Perspectives in Biology, 2018, 10, a022210.	2.3	238
21	Synergy and antagonism between Notch and BMP receptor signaling pathways in endothelial cells. EMBO Journal, 2004, 23, 541-551.	3.5	222
22	TGF-Î²1 induces efficient differentiation of human cardiomyocyte progenitor cells into functional cardiomyocytes in vitro. Stem Cell Research, 2008, 1, 138-149.	0.3	214
23	Targeting BMP signalling in cardiovascular disease and anaemia. Nature Reviews Cardiology, 2016, 13, 106-120.	6.1	193
24	Controlling cell fate by bone morphogenetic protein receptors. Molecular and Cellular Endocrinology, 2003, 211, 105-113.	1.6	182
25	Functional maturation of human pluripotent stem cell derived cardiomyocytes inÂvitro â€“ Correlation between contraction force andÂelectrophysiology. Biomaterials, 2015, 51, 138-150.	5.7	176
26	Lack of Primary Cilia Primes Shear-Induced Endothelial-to-Mesenchymal Transition. Circulation Research, 2011, 108, 1093-1101.	2.0	173
27	Transforming growth factor beta signal transduction. Journal of Leukocyte Biology, 2002, 71, 731-40.	1.5	171
28	Genetic and pharmacological targeting of activin receptor-like kinase 1 impairs tumor growth and angiogenesis. Journal of Experimental Medicine, 2010, 207, 85-100.	4.2	159
29	Human cardiomyocyte progenitor cell transplantation preserves long-term function of the infarcted mouse myocardium. Cardiovascular Research, 2009, 83, 527-535.	1.8	158
30	Exosomes from Cardiomyocyte Progenitor Cells and Mesenchymal Stem Cells Stimulate Angiogenesis Via EMMPRIN. Advanced Healthcare Materials, 2016, 5, 2555-2565.	3.9	158
31	Nuclear receptor NR4A1 promotes breast cancer invasion and metastasis by activating TGF-Î² signalling. Nature Communications, 2014, 5, 3388.	5.8	156
32	The microRNA-15 family inhibits the TGFÎ²-pathway in the heart. Cardiovascular Research, 2014, 104, 61-71.	1.8	147
33	Transforming Growth Factor Î²â€“Induced Endothelial-to-Mesenchymal Transition: A Switch to Cardiac Fibrosis?. Trends in Cardiovascular Medicine, 2008, 18, 293-298.	2.3	143
34	TGF-Î² signalingâ€“deficient hematopoietic stem cells have normal self-renewal and regenerative ability in vivo despite increased proliferative capacity in vitro. Blood, 2003, 102, 3129-3135.	0.6	141
35	Defective paracrine signalling by TGFÎ² in yolk sac vasculature of endoglin mutant mice: a paradigm for hereditary haemorrhagic telangiectasia. Development (Cambridge), 2004, 131, 6237-6247.	1.2	141
36	ALK2 R206H mutation linked to fibrodysplasia ossificans progressiva confers constitutive activity to the BMP type I receptor and sensitizes mesenchymal cells to BMP-induced osteoblast differentiation and bone formation. Journal of Bone and Mineral Research, 2010, 25, 1208-1215.	3.1	141

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37	Cardiac Stem Cell Treatment in Myocardial Infarction. Circulation Research, 2016, 118, 1223-1232.	2.0	138
38	TGF-Î²-Induced Endothelial to Mesenchymal Transition in Disease and Tissue Engineering. Frontiers in Cell and Developmental Biology, 2020, 8, 260.	1.8	133
39	MicroRNA-214 inhibits angiogenesis by targeting Quaking and reducing angiogenic growth factor release. Cardiovascular Research, 2012, 93, 655-665.	1.8	132
40	Progenitor cells isolated from the human heart: a potential cell source for regenerative therapy. Netherlands Heart Journal, 2008, 16, 163-169.	0.3	129
41	MicroRNA-221/222 Family Counteracts Myocardial Fibrosis in Pressure Overloadâ€“Induced Heart Failure. Hypertension, 2018, 71, 280-288.	1.3	128
42	Hippo Pathway Effectors Control Cardiac Progenitor Cell Fate by Acting as Dynamic Sensors of Substrate Mechanics and Nanostructure. ACS Nano, 2014, 8, 2033-2047.	7.3	127
43	Endoglin Has a Crucial Role in Blood Cellâ€“Mediated Vascular Repair. Circulation, 2006, 114, 2288-2297.	1.6	124
44	BMP signaling components are expressed in human fracture callus. Bone, 2003, 33, 362-371.	1.4	123
45	Inflammation induces endothelialâ€toâ€mesenchymal transition and promotes vascular calcification through downregulation of BMPR2. Journal of Pathology, 2019, 247, 333-346.	2.1	123
46	Age-dependent alteration of TGF-Î² signalling in osteoarthritis. Cell and Tissue Research, 2012, 347, 257-265.	1.5	119
47	Bone Morphogenetic Proteins in Vascular Homeostasis and Disease. Cold Spring Harbor Perspectives in Biology, 2018, 10, a031989.	2.3	118
48	MicroRNA-155 prevents necrotic cell death in human cardiomyocyte progenitor cells via targeting RIP1. Journal of Cellular and Molecular Medicine, 2011, 15, 1474-1482.	1.6	114
49	Expression of type I and type IB receptors for activin in midgestation mouse embryos suggests distinct functions in organogenesis. Mechanisms of Development, 1995, 52, 109-123.	1.7	111
50	Deficiency for endoglin in tumor vasculature weakens the endothelial barrier to metastatic dissemination. Journal of Experimental Medicine, 2013, 210, 563-579.	4.2	110
51	MicroRNA-23 Restricts Cardiac Valve Formation by Inhibiting Has2 and Extracellular Hyaluronic Acid Production. Circulation Research, 2011, 109, 649-657.	2.0	108
52	BMP-9 interferes with liver regeneration and promotes liver fibrosis. Gut, 2017, 66, 939-954.	6.1	107
53	Compensatory signalling induced in the yolk sac vasculature by deletion of TGFÎ² receptors in mice. Journal of Cell Science, 2007, 120, 4269-4277.	1.2	104
54	Overexpression of Smad7 results in severe pathological alterations in multiple epithelial tissues. EMBO Journal, 2002, 21, 2580-2590.	3.5	100

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55	Multicenter Preclinical Validation of BET Inhibition for the Treatment of Pulmonary Arterial Hypertension. American Journal of Respiratory and Critical Care Medicine, 2019, 200, 910-920.	2.5	100
56	The role of stem cells in cardiac regeneration. Journal of Cellular and Molecular Medicine, 2005, 9, 25-36.	1.6	98
57	Active Wnt signaling in response to cardiac injury. Basic Research in Cardiology, 2010, 105, 631-641.	2.5	97
58	The arterial and cardiac epicardium in development, disease and repair. Differentiation, 2012, 84, 41-53.	1.0	95
59	A New Direction for Cardiac Regeneration Therapy. Circulation: Heart Failure, 2009, 2, 643-653.	1.6	94
60	VEGF and inhibitors of TGFÎ² type-I receptor kinase synergistically promote blood-vessel formation by inducing Î±5-integrin expression. Journal of Cell Science, 2009, 122, 3294-3302.	1.2	90
61	Anti-human Activin Receptor-like Kinase 1 (ALK1) Antibody Attenuates Bone Morphogenetic Protein 9 (BMP9)-induced ALK1 Signaling and Interferes with Endothelial Cell Sprouting. Journal of Biological Chemistry, 2012, 287, 18551-18561.	1.6	90
62	Cardiac endothelial cells express Wilms' tumor-1. Journal of Molecular and Cellular Cardiology, 2015, 81, 127-135.	0.9	90
63	The epicardium as a source of multipotent adult cardiac progenitor cells: Their origin, role and fate. Pharmacological Research, 2018, 127, 129-140.	3.1	89
64	Quaking, an RNA-Binding Protein, Is a Critical Regulator of Vascular Smooth Muscle Cell Phenotype. Circulation Research, 2013, 113, 1065-1075.	2.0	86
65	Long-term self-renewing human epicardial cells generated from pluripotent stem cells under defined xeno-free conditions. Nature Biomedical Engineering, 2017, 1, .	11.6	86
66	EXPRESSION AND ACTIVATION OF THE BMP-SIGNALING COMPONENTS IN HUMAN FRACTURE NONUNIONS. Journal of Bone and Joint Surgery - Series A, 2002, 84, 1909-1918.	1.4	86
67	Balance between Angiopoietin-1 and Angiopoietin-2 Is in Favor of Angiopoietin-2 in Atherosclerotic Plaques with High Microvessel Density. Journal of Vascular Research, 2008, 45, 244-250.	0.6	84
68	Knockout and knockin of the beta 1 exon D define distinct roles for integrin splice variants in heart function and embryonicÂdevelopment. Genes and Development, 1998, 12, 1202-1216.	2.7	83
69	Contribution of Impaired Parasympathetic Activity to Right Ventricular Dysfunction and Pulmonary Vascular Remodeling in Pulmonary Arterial Hypertension. Circulation, 2018, 137, 910-924.	1.6	83
70	TGF-Î² and BMPR2 Signaling in PAH: Two Black Sheep in One Family. International Journal of Molecular Sciences, 2018, 19, 2585.	1.8	78
71	The morphological and molecular mechanisms of epithelial/endothelial-to-mesenchymal transition and its involvement in atherosclerosis. Vascular Pharmacology, 2018, 106, 1-8.	1.0	77
72	Bone Morphogenetic Protein Receptor Type 2 Mutation in Pulmonary Arterial Hypertension. Circulation, 2016, 133, 1747-1760.	1.6	75

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73	Human iPSC-Derived Retinas Recapitulate the Fetal CRB1 CRB2 Complex Formation and Demonstrate that Photoreceptors and MÃ¼ller Glia Are Targets of AAV5. Stem Cell Reports, 2019, 12, 906-919.	2.3	75
74	Molecular MRI of murine atherosclerotic plaque targeting NGAL: a protein associated with unstable human plaque characteristics. Cardiovascular Research, 2011, 89, 680-688.	1.8	74
75	Cellular senescence impairs the reversibility of pulmonary arterial hypertension. Science Translational Medicine, 2020, 12, .	5.8	74
76	TGFÎ² and BMP signaling in cardiac cushion formation: Lessons from mice and chicken. Differentiation, 2012, 84, 89-102.	1.0	70
77	TGF-Î² Signaling in Endothelial-to-Mesenchymal Transition: The Role of Shear Stress and Primary CiliaA Presentation from the Keystone Symposium on Epithelial Plasticity and Epithelial to Mesenchymal Transition, Vancouver, Canada, 21 to 26 January 2011.. Science Signaling, 2012, 5, pt2.	1.6	69
78	Bone Morphogenetic Protein 9 Is a Mechanistic Biomarker of Portopulmonary Hypertension. American Journal of Respiratory and Critical Care Medicine, 2019, 199, 891-902.	2.5	69
79	Ascending aorta dilation in association with bicuspid aortic valve: AÂmaturation defect of the aortic wall. Journal of Thoracic and Cardiovascular Surgery, 2014, 148, 1583-1590.	0.4	67
80	Measuring the primary cilium length: improved method for unbiased high-throughput analysis. Cilia, 2016, 5, 7.	1.8	66
81	Bone morphogenetic protein receptors: Structure, function and targeting by selective small molecule kinase inhibitors. Bone, 2020, 138, 115472.	1.4	65
82	Human Embryonic and Fetal Mesenchymal Stem Cells Differentiate toward Three Different Cardiac Lineages in Contrast to Their Adult Counterparts. PLoS ONE, 2011, 6, e24164.	1.1	64
83	Identification of atrial fibrillation associated genes and functional non-coding variants. Nature Communications, 2019, 10, 4755.	5.8	64
84	Bone Marrow Alterations and Lower Endothelial Progenitor Cell Numbers in Critical Limb Ischemia Patients. PLoS ONE, 2013, 8, e55592.	1.1	64
85	In vitro epithelial-to-mesenchymal transformation in human adult epicardial cells is regulated by TGFÎ²-signaling and WT1. Basic Research in Cardiology, 2011, 106, 829-847.	2.5	63
86	Endoglin: Beyond the Endothelium. Biomolecules, 2020, 10, 289.	1.8	62
87	TGF-β Receptor Signaling Pathways in Angiogenesis; Emerging Targets for Anti-Angiogenesis Therapy. Current Pharmaceutical Biotechnology, 2011, 12, 2108-2120.	0.9	62
88	Injectable Supramolecular Ureidopyrimidinone Hydrogels Provide Sustained Release of Extracellular Vesicle Therapeutics. Advanced Healthcare Materials, 2019, 8, e1900847.	3.9	61
89	Endothelial Dysfunction in Pulmonary Hypertension: Cause or Consequence?. Biomedicines, 2021, 9, 57.	1.4	59
90	ENDOGLIN Is Dispensable for Vasculogenesis, but Required for Vascular Endothelial Growth Factor-Induced Angiogenesis. PLoS ONE, 2014, 9, e86273.	1.1	59

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91	Reactivating endogenous mechanisms of cardiac regeneration via paracrine boosting using the human amniotic fluid stem cell secretome. International Journal of Cardiology, 2019, 287, 87-95.	0.8	57
92	IFNÎ³-dependent SOCS3 expression inhibits IL-6-induced STAT3 phosphorylation and differentially affects IL-6 mediated transcriptional responses in endothelial cells. American Journal of Physiology - Cell Physiology, 2010, 299, C354-C362.	2.1	56
93	TgfÎ²/Alk5 signaling is required for shear stress induced klf2 expression in embryonic endothelial cells. Developmental Dynamics, 2011, 240, 1670-1680.	0.8	55
94	From projects to policy: 'healthy cities' as a mechanism for policy change for health?. Health Promotion International, 1997, 12, 311-322.	0.9	53
95	Cardiac malformations in PdgfrÎ± mutant embryos are associated with increased expression of WT1 and Nkx2.5 in the second heart field. Developmental Dynamics, 2010, 239, 2307-2317.	0.8	53
96	Cardiac Progenitor Cellâ€“Derived Extracellular Vesicles Reduce Infarct Size and Associate with Increased Cardiovascular Cell Proliferation. Journal of Cardiovascular Translational Research, 2019, 12, 5-17.	1.1	53
97	Smad7 and protein phosphatase 1alpha are critical determinants in the duration of TGF-beta/ALK1 signaling in endothelial cells. BMC Cell Biology, 2006, 7, 16.	3.0	50
98	Increased Expression of the Transforming Growth Factor-Î² Signaling Pathway, Endoglin, and Early Growth Response-1 in Stable Plaques. Stroke, 2009, 40, 439-447.	1.0	50
99	TGFÎ²1-induced SMAD2/3 and SMAD1/5 phosphorylation are both ALK5-kinase-dependent in primary chondrocytes and mediated by TAK1 kinase activity. Arthritis Research and Therapy, 2017, 19, 112.	1.6	49
100	Age-Dependent Changes in Geometry, Tissue Composition and Mechanical Properties of Fetal to Adult Cryopreserved Human Heart Valves. PLoS ONE, 2016, 11, e0149020.	1.1	48
101	Age-dependent changes of stress and strain in the human heart valve and their relation with collagen remodeling. Acta Biomaterialia, 2016, 29, 161-169.	4.1	47
102	Activin Receptor-like Kinase 1 Ligand Trap Reduces Microvascular Density and Improves Chemotherapy Efficiency to Various Solid Tumors. Clinical Cancer Research, 2016, 22, 96-106.	3.2	47
103	Matrix production and remodeling capacity of cardiomyocyte progenitor cells during in vitro differentiation. Journal of Molecular and Cellular Cardiology, 2012, 53, 497-508.	0.9	45
104	Human fetal and adult epicardial-derived cells: a novel model to study their activation. Stem Cell Research and Therapy, 2016, 7, 174.	2.4	45
105	Endothelial cells are activated during hypoxia via endoglin/ALK-1/SMAD1/5 signaling in vivo and in vitro. Biochemical and Biophysical Research Communications, 2010, 392, 283-288.	1.0	44
106	SLUG Is Expressed in Endothelial Cells Lacking Primary Cilia to Promote Cellular Calcification. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 616-627.	1.1	44
107	Hyperpolarization Induces Differentiation in Human Cardiomyocyte Progenitor Cells. Stem Cell Reviews and Reports, 2010, 6, 178-185.	5.6	43
108	Early statin treatment prior to primary PCI for acute myocardial infarction: REPERATOR, a randomized placeboâ€controlled pilot trial. Catheterization and Cardiovascular Interventions, 2012, 80, 756-765.	0.7	43

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109	Blockade of vascular endothelial growth factor receptor 2 inhibits intraplaque haemorrhage by normalization of plaque neovessels. Journal of Internal Medicine, 2019, 285, 59-74.	2.7	42
110	Isolation and expansion of resident cardiac progenitor cells. Expert Review of Cardiovascular Therapy, 2007, 5, 33-43.	0.6	40
111	Histopathology of aortic complications in bicuspid aortic valve versus Marfan syndrome: relevance for therapy?. Heart and Vessels, 2016, 31, 795-806.	0.5	40
112	Cardiomyogenic differentiationâ€independent improvement of cardiac function by human cardiomyocyte progenitor cell injection in ischaemic mouse hearts. Journal of Cellular and Molecular Medicine, 2012, 16, 1508-1521.	1.6	39
113	Shear induced collateral artery growth modulated by endoglin but not by <scp>ALK1</scp>. Journal of Cellular and Molecular Medicine, 2012, 16, 2440-2450.	1.6	38
114	Expression of TGFÎ²-family signalling components in ageing cartilage: age-related loss of TGFÎ² and BMP receptors. Osteoarthritis and Cartilage, 2016, 24, 1235-1245.	0.6	38
115	Mimicking Cardiac Fibrosis in a Dish: Fibroblast Density Rather than Collagen Density Weakens Cardiomyocyte Function. Journal of Cardiovascular Translational Research, 2017, 10, 116-127.	1.1	38
116	Nintedanib improves cardiac fibrosis but leaves pulmonary vascular remodelling unaltered in experimental pulmonary hypertension. Cardiovascular Research, 2019, 115, 432-439.	1.8	38
117	Distribution of phosphorylated Smad2 identifies target tissues of TGFÎ² ligands in mouse development. Gene Expression Patterns, 2003, 3, 355-360.	0.3	37
118	Nos3 mutation leads to abnormal neural crest cell and second heart field lineage patterning in bicuspid aortic valve formation. DMM Disease Models and Mechanisms, 2018, 11, .	1.2	37
119	TGF-Î² type II receptorâ€“deficient thymocytes develop normally but demonstrate increased CD8+ proliferation in vivo. Blood, 2005, 106, 4234-4240.	0.6	36
120	Impaired recruitment of HHT-1 mononuclear cells to the ischaemic heart is due to an altered CXCR4/CD26 balance. Cardiovascular Research, 2010, 85, 494-502.	1.8	35
121	Bicuspid aortic valve: phosphorylation of c-Kit and downstream targets are prognostic for future aortopathy. European Journal of Cardio-thoracic Surgery, 2014, 46, 831-839.	0.6	35
122	Cardiomyocytes Cellular Phenotypes After Myocardial Infarction. Frontiers in Cardiovascular Medicine, 2021, 8, 750510.	1.1	35
123	Low oxygen tension positively influences cardiomyocyte progenitor cell function. Journal of Cellular and Molecular Medicine, 2011, 15, 2723-2734.	1.6	34
124	Gene expression profiling demonstrates that TGF-Î²1 signals exclusively through receptor complexes involving Alk5 and identifies targets of TGF-Î² signaling. Physiological Genomics, 2005, 21, 396-403.	1.0	33
125	Hyaluronic acid metabolism is increased in unstable plaques. European Journal of Clinical Investigation, 2010, 40, 818-827.	1.7	33
126	microRNA-1 enhances the angiogenic differentiation of human cardiomyocyte progenitor cells. Journal of Molecular Medicine, 2013, 91, 1001-1012.	1.7	33

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127	Part and Parcel of the Cardiac Autonomic Nerve System: Unravelling Its Cellular Building Blocks during Development. Journal of Cardiovascular Development and Disease, 2016, 3, 28.	0.8	33
128	Inhibition of TGFÎ² type I receptor activity facilitates liver regeneration upon acute CCl4 intoxication in mice. Archives of Toxicology, 2016, 90, 347-357.	1.9	33
129	Pulmonary Arterial Hypertension and Hereditary Haemorrhagic Telangiectasia. International Journal of Molecular Sciences, 2018, 19, 3203.	1.8	32
130	Epithelial-to-mesenchymal transformation alters electrical conductivity of human epicardial cells. Journal of Cellular and Molecular Medicine, 2011, 15, 2675-2683.	1.6	31
131	Bone Morphogenetic Protein 9 Protects against Neonatal Hyperoxia-Induced Impairment of Alveolarization and Pulmonary Inflammation. Frontiers in Physiology, 2017, 8, 486.	1.3	31
132	Endothelium-derived stromal cells contribute to hematopoietic bone marrow niche formation. Cell Stem Cell, 2021, 28, 653-670.e11.	5.2	31
133	Expression of TGF-? stimulated clone-22 (TSC-22) in mouse development and TGF-? signalling. Developmental Dynamics, 2000, 218, 563-572.	0.8	30
134	Thoracic Aortic Aneurysm Development in Patients with Bicuspid Aortic Valve: What Is the Role of Endothelial Cells?. Frontiers in Physiology, 2017, 8, 938.	1.3	30
135	Autophagy contributes to BMP type 2 receptor degradation andÂdevelopment of pulmonary arterial hypertension. Journal of Pathology, 2019, 249, 356-367.	2.1	30
136	Mouse embryonic stem cells with aberrant transforming growth factor Î² signalling exhibit impaired differentiation in vitro and in vivo. Differentiation, 1998, 63, 101-113.	1.0	29
137	Involvement of furin-like proprotein convertases in the arterial response to injury. Cardiovascular Research, 2005, 68, 136-143.	1.8	29
138	Foetal and adult cardiomyocyte progenitor cells have different developmental potential. Journal of Cellular and Molecular Medicine, 2010, 14, 861-870.	1.6	29
139	Preeclampsia and coronary plaque erosion: Manifestations of endothelial dysfunction resulting in cardiovascular events in women. European Journal of Pharmacology, 2017, 816, 129-137.	1.7	29
140	Gap Junctional Coupling with Cardiomyocytes is Necessary but Not Sufficient for Cardiomyogenic Differentiation of Cocultured Human Mesenchymal Stem Cells. Stem Cells, 2012, 30, 1236-1245.	1.4	28
141	Mononuclear cells and vascular repair in HHT. Frontiers in Genetics, 2015, 6, 114.	1.1	28
142	Forkhead box protein P1 as a downstream target of transforming growth factor-Î² induces collagen synthesis and correlates with a more stable plaque phenotype. Atherosclerosis, 2011, 218, 33-43.	0.4	27
143	Endothelial dysfunction in pulmonary arterial hypertension: loss of cilia length regulation upon cytokine stimulation. Pulmonary Circulation, 2018, 8, 1-9.	0.8	27
144	The high affinity ALK1-ligand BMP9 induces a hypertrophy-like state in chondrocytes that is antagonized by TGFÎ²1. Osteoarthritis and Cartilage, 2015, 23, 985-995.	0.6	26

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145	Development of Macrocycle Kinase Inhibitors for ALK2 Using Fibrodysplasia Ossificans Progressivaâ€Derived Endothelial Cells. JBMR Plus, 2019, 3, e10230.	1.3	26
146	Prevention of progression of pulmonary hypertension by the Nur77 agonist 6-mercaptopurine: role of BMP signalling. European Respiratory Journal, 2019, 54, 1802400.	3.1	25
147	Prrx1b restricts fibrosis and promotes Nrg1-dependent cardiomyocyte proliferation during zebrafish heart regeneration. Development (Cambridge), 2021, 148, .	1.2	25
148	Normal and abnormal development of the aortic wall and valve: correlation with clinical entities. Netherlands Heart Journal, 2014, 22, 363-369.	0.3	24
149	Novel Ex Vivo Culture Method for the Study of Dupuytren's Disease: Effects of TGFÎ² Type 1 Receptor Modulation by Antisense Oligonucleotides. Molecular Therapy - Nucleic Acids, 2014, 3, e142.	2.3	24
150	Behavior of CMPCs in unidirectional constrained and stress-free 3D hydrogels. Journal of Molecular and Cellular Cardiology, 2015, 87, 79-91.	0.9	24
151	Identification of two distinct functions for TGF-Î² in early mouse development. Differentiation, 1998, 64, 19-31.	1.0	23
152	A Gain of Function Mutation in the Activation Loop of Plateletderived Growth Factor Î²-Receptor Deregulates Its Kinase Activity. Journal of Biological Chemistry, 2004, 279, 42516-42527.	1.6	23
153	A multistep procedure to prepare pre-vascularized cardiac tissue constructs using adult stem sells, dynamic cell cultures, and porous scaffolds. Frontiers in Physiology, 2014, 5, 210.	1.3	23
154	The role of hemodynamics in bicuspid aortopathy: a histopathologic study. Cardiovascular Pathology, 2019, 41, 29-37.	0.7	23
155	The BMP Receptor 2 in Pulmonary Arterial Hypertension: When and Where the Animal Model Matches the Patient. Cells, 2020, 9, 1422.	1.8	23
156	Regional differences in WT-1 and Tcf21 expression during ventricular development: implications for myocardial compaction. PLoS ONE, 2015, 10, e0136025.	1.1	22
157	The roadmap of WT1 protein expression in the human fetal heart. Journal of Molecular and Cellular Cardiology, 2016, 90, 139-145.	0.9	22
158	Exacerbated inflammatory signaling underlies aberrant response to BMP9 in pulmonary arterial hypertension lung endothelial cells. Angiogenesis, 2020, 23, 699-714.	3.7	22
159	Expression of the Î±6A integrin splice variant in developing mouse embryonic stem cell aggregates and correlation with cardiac muscle differentiation. Differentiation, 1999, 64, 173-184.	1.0	21
160	Ectopic expression of the transforming growth factor ? type II receptor disrupts mesoderm organisation during mouse gastrulation. Developmental Dynamics, 1999, 214, 141-151.	0.8	21
161	Human cardiomyocyte progenitor cell-derived cardiomyocytes display a maturated electrical phenotype. Journal of Molecular and Cellular Cardiology, 2010, 48, 254-260.	0.9	21
162	Cardiomyocyte progenitor cell mechanoresponse unrevealed: strain avoidance and mechanosome development. Integrative Biology (United Kingdom), 2016, 8, 991-1001.	0.6	21

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163	Expression of the inhibitory Smad7 in early mouse development and upregulation during embryonic vasculogenesis. Developmental Dynamics, 2000, 218, 663-670.	0.8	20
164	Improvement of cardiac efficacy and safety models in drug discovery by the use of stem cell-derived cardiomyocytes. Expert Opinion on Drug Discovery, 2009, 4, 357-372.	2.5	20
165	Cardiac Progenitor-Cell Derived Exosomes as Cell-Free Therapeutic for Cardiac Repair. Advances in Experimental Medicine and Biology, 2017, 998, 207-219.	0.8	20
166	Poor vessel formation in embryos from knock-in mice expressing ALK5 with L45 loop mutation defective in Smad activation. Laboratory Investigation, 2009, 89, 800-810.	1.7	19
167	Cell Therapy for Myocardial Regeneration. Current Molecular Medicine, 2009, 9, 287-298.	0.6	18
168	A straightforward guide to the basic science behind cardiovascular cell-based therapies. Heart, 2014, 100, 1153-1157.	1.2	18
169	Modulation of TGF-Î²/BMP-6 expression and increased levels of circulating smooth muscle progenitor cells in a type I diabetes mouse model. Cardiovascular Diabetology, 2010, 9, 55.	2.7	17
170	Xenotransplantation of Human Cardiomyocyte Progenitor Cells Does Not Improve Cardiac Function in a Porcine Model of Chronic Ischemic Heart Failure. Results from a Randomized, Blinded, Placebo Controlled Trial. PLoS ONE, 2015, 10, e0143953.	1.1	17
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