

Marie Jose Goumans

List of Publications by Year in descending order

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300
papers

18,922
citations

11651

70
h-index

14208

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.	7.8	972
2	Activin Receptor-like Kinase (ALK)1 Is an Antagonistic Mediator of Lateral TGF β ² /ALK5 Signaling. Molecular Cell, 2003, 12, 817-828.	9.7	631
3	Endoglin promotes endothelial cell proliferation and TGF- β ² /ALK1 signal transduction. EMBO Journal, 2004, 23, 4018-4028.	7.8	592
4	Abnormal angiogenesis but intact hematopoietic potential in TGF-beta type I receptor-deficient mice. EMBO Journal, 2001, 20, 1663-1673.	7.8	488
5	TGF- β ² signaling in vascular biology and dysfunction. Cell Research, 2009, 19, 116-127.	12.0	476
6	Signaling of transforming growth factor β 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.	4.1	418
9	Human mesenchymal stem cell-conditioned medium improves cardiac function following myocardial infarction. Stem Cell Research, 2011, 6, 206-214.	0.7	379
10	Signaling by members of the TGF- β ² family in vascular morphogenesis and disease. Trends in Cell Biology, 2010, 20, 556-567.	7.9	348
11	Controlling the Angiogenic Switch. Trends in Cardiovascular Medicine, 2003, 13, 301-307.	4.9	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.	2.4	302
13	Toll-Like Receptor 4 Mediates Maladaptive Left Ventricular Remodeling and Impairs Cardiac Function After Myocardial Infarction. Circulation Research, 2008, 102, 257-264.	4.5	298
14	Endoglin in angiogenesis and vascular diseases. Angiogenesis, 2008, 11, 79-89.	7.2	291
15	Stimulation of Id1 Expression by Bone Morphogenetic Protein Is Sufficient and Necessary for Bone Morphogenetic Protein β -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.	12.0	276
17	Higher functionality of extracellular vesicles isolated using size-exclusion chromatography compared to ultracentrifugation. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 2061-2065.	3.3	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.	0.8	251

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19	Mutations in a TGF- β 2 Ligand, TGFB3, Cause Syndromic Aortic Aneurysms and Dissections. <i>Journal of the American College of Cardiology</i> , 2015, 65, 1324-1336.	2.8	238
20	TGF- β 2 Signaling in Control of Cardiovascular Function. <i>Cold Spring Harbor Perspectives in Biology</i> , 2018, 10, a022210.	5.5	238
21	Synergy and antagonism between Notch and BMP receptor signaling pathways in endothelial cells. <i>EMBO Journal</i> , 2004, 23, 541-551.	7.8	222
22	TGF- β 1 induces efficient differentiation of human cardiomyocyte progenitor cells into functional cardiomyocytes in vitro. <i>Stem Cell Research</i> , 2008, 1, 138-149.	0.7	214
23	Targeting BMP signalling in cardiovascular disease and anaemia. <i>Nature Reviews Cardiology</i> , 2016, 13, 106-120.	13.7	193
24	Controlling cell fate by bone morphogenetic protein receptors. <i>Molecular and Cellular Endocrinology</i> , 2003, 211, 105-113.	3.2	182
25	Functional maturation of human pluripotent stem cell derived cardiomyocytes in vitro – Correlation between contraction force and electrophysiology. <i>Biomaterials</i> , 2015, 51, 138-150.	11.4	176
26	Lack of Primary Cilia Primes Shear-Induced Endothelial-to-Mesenchymal Transition. <i>Circulation Research</i> , 2011, 108, 1093-1101.	4.5	173
27	Transforming growth factor beta signal transduction. <i>Journal of Leukocyte Biology</i> , 2002, 71, 731-40.	3.3	171
28	Genetic and pharmacological targeting of activin receptor-like kinase 1 impairs tumor growth and angiogenesis. <i>Journal of Experimental Medicine</i> , 2010, 207, 85-100.	8.5	159
29	Human cardiomyocyte progenitor cell transplantation preserves long-term function of the infarcted mouse myocardium. <i>Cardiovascular Research</i> , 2009, 83, 527-535.	3.8	158
30	Exosomes from Cardiomyocyte Progenitor Cells and Mesenchymal Stem Cells Stimulate Angiogenesis Via EMMPRIN. <i>Advanced Healthcare Materials</i> , 2016, 5, 2555-2565.	7.6	158
31	Nuclear receptor NR4A1 promotes breast cancer invasion and metastasis by activating TGF- β 2 signalling. <i>Nature Communications</i> , 2014, 5, 3388.	12.8	156
32	The microRNA-15 family inhibits the TGF- β 2-pathway in the heart. <i>Cardiovascular Research</i> , 2014, 104, 61-71.	3.8	147
33	Transforming Growth Factor β 2-Induced Endothelial-to-Mesenchymal Transition: A Switch to Cardiac Fibrosis?. <i>Trends in Cardiovascular Medicine</i> , 2008, 18, 293-298.	4.9	143
34	TGF- β 2 signaling-deficient hematopoietic stem cells have normal self-renewal and regenerative ability in vivo despite increased proliferative capacity in vitro. <i>Blood</i> , 2003, 102, 3129-3135.	1.4	141
35	Defective paracrine signalling by TGF- β 2 in yolk sac vasculature of endoglin mutant mice: a paradigm for hereditary haemorrhagic telangiectasia. <i>Development (Cambridge)</i> , 2004, 131, 6237-6247.	2.5	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. <i>Journal of Bone and Mineral Research</i> , 2010, 25, 1208-1215.	2.8	141

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37	Cardiac Stem Cell Treatment in Myocardial Infarction. <i>Circulation Research</i> , 2016, 118, 1223-1232.	4.5	138
38	TGF- β -Induced Endothelial to Mesenchymal Transition in Disease and Tissue Engineering. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 260.	3.7	133
39	MicroRNA-214 inhibits angiogenesis by targeting Quaking and reducing angiogenic growth factor release. <i>Cardiovascular Research</i> , 2012, 93, 655-665.	3.8	132
40	Progenitor cells isolated from the human heart: a potential cell source for regenerative therapy. <i>Netherlands Heart Journal</i> , 2008, 16, 163-169.	0.8	129
41	MicroRNA-221/222 Family Counteracts Myocardial Fibrosis in Pressure Overload-Induced Heart Failure. <i>Hypertension</i> , 2018, 71, 280-288.	2.7	128
42	Hippo Pathway Effectors Control Cardiac Progenitor Cell Fate by Acting as Dynamic Sensors of Substrate Mechanics and Nanostructure. <i>ACS Nano</i> , 2014, 8, 2033-2047.	14.6	127
43	Endoglin Has a Crucial Role in Blood Cell-Mediated Vascular Repair. <i>Circulation</i> , 2006, 114, 2288-2297.	1.6	124
44	BMP signaling components are expressed in human fracture callus. <i>Bone</i> , 2003, 33, 362-371.	2.9	123
45	Inflammation induces endothelial-to-mesenchymal transition and promotes vascular calcification through downregulation of BMP2. <i>Journal of Pathology</i> , 2019, 247, 333-346.	4.5	123
46	Age-dependent alteration of TGF- β signalling in osteoarthritis. <i>Cell and Tissue Research</i> , 2012, 347, 257-265.	2.9	119
47	Bone Morphogenetic Proteins in Vascular Homeostasis and Disease. <i>Cold Spring Harbor Perspectives in Biology</i> , 2018, 10, a031989.	5.5	118
48	MicroRNA-155 prevents necrotic cell death in human cardiomyocyte progenitor cells via targeting RIP1. <i>Journal of Cellular and Molecular Medicine</i> , 2011, 15, 1474-1482.	3.6	114
49	Expression of type I and type IB receptors for activin in midgestation mouse embryos suggests distinct functions in organogenesis. <i>Mechanisms of Development</i> , 1995, 52, 109-123.	1.7	111
50	Deficiency for endoglin in tumor vasculature weakens the endothelial barrier to metastatic dissemination. <i>Journal of Experimental Medicine</i> , 2013, 210, 563-579.	8.5	110
51	MicroRNA-23 Restricts Cardiac Valve Formation by Inhibiting <i>Has2</i> and Extracellular Hyaluronic Acid Production. <i>Circulation Research</i> , 2011, 109, 649-657.	4.5	108
52	BMP-9 interferes with liver regeneration and promotes liver fibrosis. <i>Gut</i> , 2017, 66, 939-954.	12.1	107
53	Compensatory signalling induced in the yolk sac vasculature by deletion of TGF β receptors in mice. <i>Journal of Cell Science</i> , 2007, 120, 4269-4277.	2.0	104
54	Overexpression of Smad7 results in severe pathological alterations in multiple epithelial tissues. <i>EMBO Journal</i> , 2002, 21, 2580-2590.	7.8	100

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55	Multicenter Preclinical Validation of BET Inhibition for the Treatment of Pulmonary Arterial Hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019, 200, 910-920.	5.6	100
56	The role of stem cells in cardiac regeneration. <i>Journal of Cellular and Molecular Medicine</i> , 2005, 9, 25-36.	3.6	98
57	Active Wnt signaling in response to cardiac injury. <i>Basic Research in Cardiology</i> , 2010, 105, 631-641.	5.9	97
58	The arterial and cardiac epicardium in development, disease and repair. <i>Differentiation</i> , 2012, 84, 41-53.	1.9	95
59	A New Direction for Cardiac Regeneration Therapy. <i>Circulation: Heart Failure</i> , 2009, 2, 643-653.	3.9	94
60	VEGF and inhibitors of TGF β 2 type-I receptor kinase synergistically promote blood-vessel formation by inducing α 5-integrin expression. <i>Journal of Cell Science</i> , 2009, 122, 3294-3302.	2.0	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. <i>Journal of Biological Chemistry</i> , 2012, 287, 18551-18561.	3.4	90
62	Cardiac endothelial cells express Wilms' tumor-1. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 81, 127-135.	1.9	90
63	The epicardium as a source of multipotent adult cardiac progenitor cells: Their origin, role and fate. <i>Pharmacological Research</i> , 2018, 127, 129-140.	7.1	89
64	Quaking, an RNA-Binding Protein, Is a Critical Regulator of Vascular Smooth Muscle Cell Phenotype. <i>Circulation Research</i> , 2013, 113, 1065-1075.	4.5	86
65	Long-term self-renewing human epicardial cells generated from pluripotent stem cells under defined xeno-free conditions. <i>Nature Biomedical Engineering</i> , 2017, 1, .	22.5	86
66	EXPRESSION AND ACTIVATION OF THE BMP-SIGNALING COMPONENTS IN HUMAN FRACTURE NONUNIONS. <i>Journal of Bone and Joint Surgery - Series A</i> , 2002, 84, 1909-1918.	3.0	86
67	Balance between Angiotensin-1 and Angiotensin-2 Is in Favor of Angiotensin-2 in Atherosclerotic Plaques with High Microvessel Density. <i>Journal of Vascular Research</i> , 2008, 45, 244-250.	1.4	84
68	Knockout and knockin of the beta 1 exon D define distinct roles for integrin splice variants in heart function and embryonic development. <i>Genes and Development</i> , 1998, 12, 1202-1216.	5.9	83
69	Contribution of Impaired Parasympathetic Activity to Right Ventricular Dysfunction and Pulmonary Vascular Remodeling in Pulmonary Arterial Hypertension. <i>Circulation</i> , 2018, 137, 910-924.	1.6	83
70	TGF β 2 and BMPR2 Signaling in PAH: Two Black Sheep in One Family. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2585.	4.1	78
71	The morphological and molecular mechanisms of epithelial/endothelial-to-mesenchymal transition and its involvement in atherosclerosis. <i>Vascular Pharmacology</i> , 2018, 106, 1-8.	2.1	77
72	Bone Morphogenetic Protein Receptor Type 2 Mutation in Pulmonary Arterial Hypertension. <i>Circulation</i> , 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 Müller Glia Are Targets of AAV5. <i>Stem Cell Reports</i> , 2019, 12, 906-919.	4.8	75
74	Molecular MRI of murine atherosclerotic plaque targeting NGAL: a protein associated with unstable human plaque characteristics. <i>Cardiovascular Research</i> , 2011, 89, 680-688.	3.8	74
75	Cellular senescence impairs the reversibility of pulmonary arterial hypertension. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	74
76	TGF β 2 and BMP signaling in cardiac cushion formation: Lessons from mice and chicken. <i>Differentiation</i> , 2012, 84, 89-102.	1.9	70
77	TGF- β 2 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.. <i>Science Signaling</i> , 2012, 5, pt2.	3.6	69
78	Bone Morphogenetic Protein 9 Is a Mechanistic Biomarker of Portopulmonary Hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019, 199, 891-902.	5.6	69
79	Ascending aorta dilation in association with bicuspid aortic valve: A maturation defect of the aortic wall. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2014, 148, 1583-1590.	0.8	67
80	Measuring the primary cilium length: improved method for unbiased high-throughput analysis. <i>Cilia</i> , 2016, 5, 7.	1.8	66
81	Bone morphogenetic protein receptors: Structure, function and targeting by selective small molecule kinase inhibitors. <i>Bone</i> , 2020, 138, 115472.	2.9	65
82	Human Embryonic and Fetal Mesenchymal Stem Cells Differentiate toward Three Different Cardiac Lineages in Contrast to Their Adult Counterparts. <i>PLoS ONE</i> , 2011, 6, e24164.	2.5	64
83	Identification of atrial fibrillation associated genes and functional non-coding variants. <i>Nature Communications</i> , 2019, 10, 4755.	12.8	64
84	Bone Marrow Alterations and Lower Endothelial Progenitor Cell Numbers in Critical Limb Ischemia Patients. <i>PLoS ONE</i> , 2013, 8, e55592.	2.5	64
85	In vitro epithelial-to-mesenchymal transformation in human adult epicardial cells is regulated by TGF β 2-signaling and WT1. <i>Basic Research in Cardiology</i> , 2011, 106, 829-847.	5.9	63
86	Endoglin: Beyond the Endothelium. <i>Biomolecules</i> , 2020, 10, 289.	4.0	62
87	TGF- β ; Receptor Signaling Pathways in Angiogenesis; Emerging Targets for Anti-Angiogenesis Therapy. <i>Current Pharmaceutical Biotechnology</i> , 2011, 12, 2108-2120.	1.6	62
88	Injectable Supramolecular Ureidopyrimidinone Hydrogels Provide Sustained Release of Extracellular Vesicle Therapeutics. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900847.	7.6	61
89	Endothelial Dysfunction in Pulmonary Hypertension: Cause or Consequence?. <i>Biomedicines</i> , 2021, 9, 57.	3.2	59
90	ENDOGLIN Is Dispensable for Vasculogenesis, but Required for Vascular Endothelial Growth Factor-Induced Angiogenesis. <i>PLoS ONE</i> , 2014, 9, e86273.	2.5	59

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91	Reactivating endogenous mechanisms of cardiac regeneration via paracrine boosting using the human amniotic fluid stem cell secretome. <i>International Journal of Cardiology</i> , 2019, 287, 87-95.	1.7	57
92	IFN β -dependent SOCS3 expression inhibits IL-6-induced STAT3 phosphorylation and differentially affects IL-6 mediated transcriptional responses in endothelial cells. <i>American Journal of Physiology - Cell Physiology</i> , 2010, 299, C354-C362.	4.6	56
93	Tgfr β /Alk5 signaling is required for shear stress induced klf2 expression in embryonic endothelial cells. <i>Developmental Dynamics</i> , 2011, 240, 1670-1680.	1.8	55
94	From projects to policy: 'healthy cities' as a mechanism for policy change for health?. <i>Health Promotion International</i> , 1997, 12, 311-322.	1.8	53
95	Cardiac malformations in <i>Pdgfrα</i> mutant embryos are associated with increased expression of WT1 and Nkx2.5 in the second heart field. <i>Developmental Dynamics</i> , 2010, 239, 2307-2317.	1.8	53
96	Cardiac Progenitor Cell-Derived Extracellular Vesicles Reduce Infarct Size and Associate with Increased Cardiovascular Cell Proliferation. <i>Journal of Cardiovascular Translational Research</i> , 2019, 12, 5-17.	2.4	53
97	Smad7 and protein phosphatase 1alpha are critical determinants in the duration of TGF-beta/ALK1 signaling in endothelial cells. <i>BMC Cell Biology</i> , 2006, 7, 16.	3.0	50
98	Increased Expression of the Transforming Growth Factor- β Signaling Pathway, Endoglin, and Early Growth Response-1 in Stable Plaques. <i>Stroke</i> , 2009, 40, 439-447.	2.0	50
99	TGF β 1-induced SMAD2/3 and SMAD1/5 phosphorylation are both ALK5-kinase-dependent in primary chondrocytes and mediated by TAK1 kinase activity. <i>Arthritis Research and Therapy</i> , 2017, 19, 112.	3.5	49
100	Age-Dependent Changes in Geometry, Tissue Composition and Mechanical Properties of Fetal to Adult Cryopreserved Human Heart Valves. <i>PLoS ONE</i> , 2016, 11, e0149020.	2.5	48
101	Age-dependent changes of stress and strain in the human heart valve and their relation with collagen remodeling. <i>Acta Biomaterialia</i> , 2016, 29, 161-169.	8.3	47
102	Activin Receptor-like Kinase 1 Ligand Trap Reduces Microvascular Density and Improves Chemotherapy Efficiency to Various Solid Tumors. <i>Clinical Cancer Research</i> , 2016, 22, 96-106.	7.0	47
103	Matrix production and remodeling capacity of cardiomyocyte progenitor cells during in vitro differentiation. <i>Journal of Molecular and Cellular Cardiology</i> , 2012, 53, 497-508.	1.9	45
104	Human fetal and adult epicardial-derived cells: a novel model to study their activation. <i>Stem Cell Research and Therapy</i> , 2016, 7, 174.	5.5	45
105	Endothelial cells are activated during hypoxia via endoglin/ALK-1/SMAD1/5 signaling in vivo and in vitro. <i>Biochemical and Biophysical Research Communications</i> , 2010, 392, 283-288.	2.1	44
106	SLUG Is Expressed in Endothelial Cells Lacking Primary Cilia to Promote Cellular Calcification. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 616-627.	2.4	44
107	Hyperpolarization Induces Differentiation in Human Cardiomyocyte Progenitor Cells. <i>Stem Cell Reviews and Reports</i> , 2010, 6, 178-185.	5.6	43
108	Early statin treatment prior to primary PCI for acute myocardial infarction: REPERATOR, a randomized placebo-controlled pilot trial. <i>Catheterization and Cardiovascular Interventions</i> , 2012, 80, 756-765.	1.7	43

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109	Blockade of vascular endothelial growth factor receptor 2 inhibits intraplaque haemorrhage by normalization of plaque neovessels. <i>Journal of Internal Medicine</i> , 2019, 285, 59-74.	6.0	42
110	Isolation and expansion of resident cardiac progenitor cells. <i>Expert Review of Cardiovascular Therapy</i> , 2007, 5, 33-43.	1.5	40
111	Histopathology of aortic complications in bicuspid aortic valve versus Marfan syndrome: relevance for therapy?. <i>Heart and Vessels</i> , 2016, 31, 795-806.	1.2	40
112	Cardiomyogenic differentiation-independent improvement of cardiac function by human cardiomyocyte progenitor cell injection in ischaemic mouse hearts. <i>Journal of Cellular and Molecular Medicine</i> , 2012, 16, 1508-1521.	3.6	39
113	Shear induced collateral artery growth modulated by endoglin but not by ALK1 . <i>Journal of Cellular and Molecular Medicine</i> , 2012, 16, 2440-2450.	3.6	38
114	Expression of $\text{TGF}\beta$ -family signalling components in ageing cartilage: age-related loss of $\text{TGF}\beta$ and BMP receptors. <i>Osteoarthritis and Cartilage</i> , 2016, 24, 1235-1245.	1.3	38
115	Mimicking Cardiac Fibrosis in a Dish: Fibroblast Density Rather than Collagen Density Weakens Cardiomyocyte Function. <i>Journal of Cardiovascular Translational Research</i> , 2017, 10, 116-127.	2.4	38
116	Nintedanib improves cardiac fibrosis but leaves pulmonary vascular remodelling unaltered in experimental pulmonary hypertension. <i>Cardiovascular Research</i> , 2019, 115, 432-439.	3.8	38
117	Distribution of phosphorylated Smad2 identifies target tissues of $\text{TGF}\beta$ ligands in mouse development. <i>Gene Expression Patterns</i> , 2003, 3, 355-360.	0.8	37
118	Nos3 mutation leads to abnormal neural crest cell and second heart field lineage patterning in bicuspid aortic valve formation. <i>DMM Disease Models and Mechanisms</i> , 2018, 11, .	2.4	37
119	$\text{TGF}\beta$ type II receptor-deficient thymocytes develop normally but demonstrate increased CD8+ proliferation in vivo. <i>Blood</i> , 2005, 106, 4234-4240.	1.4	36
120	Impaired recruitment of HHT-1 mononuclear cells to the ischaemic heart is due to an altered CXCR4/CD26 balance. <i>Cardiovascular Research</i> , 2010, 85, 494-502.	3.8	35
121	Bicuspid aortic valve: phosphorylation of c-Kit and downstream targets are prognostic for future aortopathy. <i>European Journal of Cardio-thoracic Surgery</i> , 2014, 46, 831-839.	1.4	35
122	Cardiomyocytes Cellular Phenotypes After Myocardial Infarction. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 750510.	2.4	35
123	Low oxygen tension positively influences cardiomyocyte progenitor cell function. <i>Journal of Cellular and Molecular Medicine</i> , 2011, 15, 2723-2734.	3.6	34
124	Gene expression profiling demonstrates that $\text{TGF}\beta$ 1 signals exclusively through receptor complexes involving Alk5 and identifies targets of $\text{TGF}\beta$ signaling. <i>Physiological Genomics</i> , 2005, 21, 396-403.	2.3	33
125	Hyaluronic acid metabolism is increased in unstable plaques. <i>European Journal of Clinical Investigation</i> , 2010, 40, 818-827.	3.4	33
126	microRNA-1 enhances the angiogenic differentiation of human cardiomyocyte progenitor cells. <i>Journal of Molecular Medicine</i> , 2013, 91, 1001-1012.	3.9	33

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127	Part and Parcel of the Cardiac Autonomic Nerve System: Unravelling Its Cellular Building Blocks during Development. <i>Journal of Cardiovascular Development and Disease</i> , 2016, 3, 28.	1.6	33
128	Inhibition of TGF β 2 type I receptor activity facilitates liver regeneration upon acute CCl4 intoxication in mice. <i>Archives of Toxicology</i> , 2016, 90, 347-357.	4.2	33
129	Pulmonary Arterial Hypertension and Hereditary Haemorrhagic Telangiectasia. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3203.	4.1	32
130	Epithelial-to-mesenchymal transformation alters electrical conductivity of human epicardial cells. <i>Journal of Cellular and Molecular Medicine</i> , 2011, 15, 2675-2683.	3.6	31
131	Bone Morphogenetic Protein 9 Protects against Neonatal Hyperoxia-Induced Impairment of Alveolarization and Pulmonary Inflammation. <i>Frontiers in Physiology</i> , 2017, 8, 486.	2.8	31
132	Endothelium-derived stromal cells contribute to hematopoietic bone marrow niche formation. <i>Cell Stem Cell</i> , 2021, 28, 653-670.e11.	11.1	31
133	Expression of TGF- β stimulated clone-22 (TSC-22) in mouse development and TGF- β signalling. <i>Developmental Dynamics</i> , 2000, 218, 563-572.	1.8	30
134	Thoracic Aortic Aneurysm Development in Patients with Bicuspid Aortic Valve: What Is the Role of Endothelial Cells?. <i>Frontiers in Physiology</i> , 2017, 8, 938.	2.8	30
135	Autophagy contributes to BMP type 2 receptor degradation and development of pulmonary arterial hypertension. <i>Journal of Pathology</i> , 2019, 249, 356-367.	4.5	30
136	Mouse embryonic stem cells with aberrant transforming growth factor β 2 signalling exhibit impaired differentiation in vitro and in vivo. <i>Differentiation</i> , 1998, 63, 101-113.	1.9	29
137	Involvement of furin-like proprotein convertases in the arterial response to injury. <i>Cardiovascular Research</i> , 2005, 68, 136-143.	3.8	29
138	Foetal and adult cardiomyocyte progenitor cells have different developmental potential. <i>Journal of Cellular and Molecular Medicine</i> , 2010, 14, 861-870.	3.6	29
139	Preeclampsia and coronary plaque erosion: Manifestations of endothelial dysfunction resulting in cardiovascular events in women. <i>European Journal of Pharmacology</i> , 2017, 816, 129-137.	3.5	29
140	Gap Junctional Coupling with Cardiomyocytes is Necessary but Not Sufficient for Cardiomyogenic Differentiation of Cocultured Human Mesenchymal Stem Cells. <i>Stem Cells</i> , 2012, 30, 1236-1245.	3.2	28
141	Mononuclear cells and vascular repair in HHT. <i>Frontiers in Genetics</i> , 2015, 6, 114.	2.3	28
142	Forkhead box protein P1 as a downstream target of transforming growth factor- β 2 induces collagen synthesis and correlates with a more stable plaque phenotype. <i>Atherosclerosis</i> , 2011, 218, 33-43.	0.8	27
143	Endothelial dysfunction in pulmonary arterial hypertension: loss of cilia length regulation upon cytokine stimulation. <i>Pulmonary Circulation</i> , 2018, 8, 1-9.	1.7	27
144	The high affinity ALK1-ligand BMP9 induces a hypertrophy-like state in chondrocytes that is antagonized by TGF β 1. <i>Osteoarthritis and Cartilage</i> , 2015, 23, 985-995.	1.3	26

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145	Development of Macrocyclic Kinase Inhibitors for ALK2 Using Fibrodysplasia Ossificans Progressiva-Derived Endothelial Cells. <i>JBMR Plus</i> , 2019, 3, e10230.	2.7	26
146	Prevention of progression of pulmonary hypertension by the Nur77 agonist 6-mercaptopurine: role of BMP signalling. <i>European Respiratory Journal</i> , 2019, 54, 1802400.	6.7	25
147	Prrx1b restricts fibrosis and promotes Nrg1-dependent cardiomyocyte proliferation during zebrafish heart regeneration. <i>Development (Cambridge)</i> , 2021, 148, .	2.5	25
148	Normal and abnormal development of the aortic wall and valve: correlation with clinical entities. <i>Netherlands Heart Journal</i> , 2014, 22, 363-369.	0.8	24
149	Novel Ex Vivo Culture Method for the Study of Dupuytren's Disease: Effects of TGF β 2 Type 1 Receptor Modulation by Antisense Oligonucleotides. <i>Molecular Therapy - Nucleic Acids</i> , 2014, 3, e142.	5.1	24
150	Behavior of CMPCs in unidirectional constrained and stress-free 3D hydrogels. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 87, 79-91.	1.9	24
151	Identification of two distinct functions for TGF β 2 in early mouse development. <i>Differentiation</i> , 1998, 64, 19-31.	1.9	23
152	A Gain of Function Mutation in the Activation Loop of Platelet-derived Growth Factor β 2-Receptor Deregulates Its Kinase Activity. <i>Journal of Biological Chemistry</i> , 2004, 279, 42516-42527.	3.4	23
153	A multistep procedure to prepare pre-vascularized cardiac tissue constructs using adult stem cells, dynamic cell cultures, and porous scaffolds. <i>Frontiers in Physiology</i> , 2014, 5, 210.	2.8	23
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