Gaia Spinetti

List of Publications by Year in descending order

101 papers	4,921 citations	101535 36 h-index	98792 67 g-index
107 all docs	107 docs citations	107 times ranked	6931 citing authors

#	Article	IF	Citations
1	Deregulation of microRNA-503 Contributes to Diabetes Mellitusâ€“Induced Impairment of Endothelial Function and Reparative Angiogenesis After Limb Ischemia. Circulation, 2011, 123, 282-291.	1.6	374
2	Proinflammatory Profile Within the Grossly Normal Aged Human Aortic Wall. Hypertension, 2007, 50, 219-227.	2.7	232
3	Matrix Metalloproteinase 2 Activation of Transforming Growth Factor-Î²1 (TGF-Î²1) and TGF-Î²1â€“Type II Receptor Signaling Within the Aged Arterial Wall. Arteriosclerosis, Thrombosis, and Vascular Biology, 2006, 26, 1503-1509.	2.4	227
4	Diabetes Mellitus Induces Bone Marrow Microangiopathy. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 498-508.	2.4	207
5	MicroRNA-15a and MicroRNA-16 Impair Human Circulating Proangiogenic Cell Functions and Are Increased in the Proangiogenic Cells and Serum of Patients With Critical Limb Ischemia. Circulation Research, 2013, 112, 335-346.	4.5	180
6	Angiotensin II Activates Matrix Metalloproteinase Type II and Mimics Age-Associated Carotid Arterial Remodeling in Young Rats. American Journal of Pathology, 2005, 167, 1429-1442.	3.8	170
7	Analysis of the role of chemokines in angiogenesis. Journal of Immunological Methods, 2003, 273, 83-101.	1.4	168
8	Rat Aortic MCP-1 and Its Receptor CCR2 Increase With Age and Alter Vascular Smooth Muscle Cell Function. Arteriosclerosis, Thrombosis, and Vascular Biology, 2004, 24, 1397-1402.	2.4	165
9	Human Pericardial Fluid Contains Exosomes Enriched with Cardiovascular-Expressed MicroRNAs and Promotes Therapeutic Angiogenesis. Molecular Therapy, 2017, 25, 679-693.	8.2	153
10	Global Remodeling of the Vascular Stem Cell Niche in Bone Marrow of Diabetic Patients. Circulation Research, 2013, 112, 510-522.	4.5	135
11	Diabetes and vessel wall remodelling: from mechanistic insights to regenerative therapies. Cardiovascular Research, 2008, 78, 265-273.	3.8	127
12	Adenovirus-mediated VEGF165 gene transfer enhances wound healing by promoting angiogenesis in CD1 diabetic mice. Gene Therapy, 2002, 9, 1271-1277.	4.5	112
13	Role of Kinin B 2 Receptor Signaling in the Recruitment of Circulating Progenitor Cells With Neovascularization Potential. Circulation Research, 2008, 103, 1335-1343.	4.5	108
14	Identification of the CC chemokines TARC and macrophage inflammatory protein-1Î² as novel functional ligands for the CCR8 receptor. European Journal of Immunology, 1998, 28, 582-588.	2.9	104
15	Elevated Mineralocorticoid Receptor Activity in Aged Rat Vascular Smooth Muscle Cells Promotes a Proinflammatory Phenotype via Extracellular Signal-Regulated Kinase 1/2 Mitogen-Activated Protein Kinase and Epidermal Growth Factor Receptor-Dependent Pathways. Hypertension, 2010, 55, 1476-1483.	2.7	104
16	Milk Fat Globule Protein Epidermal Growth Factor-8. Circulation Research, 2009, 104, 1337-1346.	4.5	99
17	Neurotrophin p75 Receptor (p75 ^{NTR}) Promotes Endothelial Cell Apoptosis and Inhibits Angiogenesis. Circulation Research, 2008, 103, e15-26.	4.5	90
18	Role for Substance Pâ€“Based Nociceptive Signaling in Progenitor Cell Activation and Angiogenesis During Ischemia in Mice and in Human Subjects. Circulation, 2012, 125, 1774-1786.	1.6	90

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19	3D hydrogel environment rejuvenates aged pericytes for skeletal muscle tissue engineering. Frontiers in Physiology, 2014, 5, 203.	2.8	90
20	Increased Aortic Calpain-1 Activity Mediates Age-Associated Angiotensin II Signaling of Vascular Smooth Muscle Cells. PLoS ONE, 2008, 3, e2231.	2.5	90
21	A unique plasma microRNA profile defines type 2 diabetes progression. PLoS ONE, 2017, 12, e0188980.	2.5	86
22	I-309 binds to and activates endothelial cell functions and acts as an angiogenic molecule in vivo. Blood, 2000, 96, 4039-4045.	1.4	82
23	Genetic Analysis Reveals a Longevity-Associated Protein Modulating Endothelial Function and Angiogenesis. Circulation Research, 2015, 117, 333-345.	4.5	78
24	Oxidative Stress in Mesenchymal Stem Cell Senescence: Regulation by Coding and Noncoding RNAs. Antioxidants and Redox Signaling, 2018, 29, 864-879.	5.4	71
25	Contribution of pericyte paracrine regulation of the endothelium to angiogenesis. , 2017, 171, 56-64.		70
26	MCP-1 Feedback Loop Between Adipocytes and Mesenchymal Stromal Cells Causes Fat Accumulation and Contributes to Hematopoietic Stem Cell Rarefaction in the Bone Marrow of Patients With Diabetes. Diabetes, 2018, 67, 1380-1394.	0.6	64
27	Circulating microRNA-21 is an early predictor of ROS-mediated damage in subjects with high risk of developing diabetes and in drug-naÂ¯ve T2D. Cardiovascular Diabetology, 2019, 18, 18.	6.8	63
28	Central role of the p53 pathway in the noncoding-RNA response to oxidative stress. Aging, 2017, 9, 2559-2586.	3.1	54
29	Laminar shear stress inhibits CXCR4 expression on endothelial cells: functional consequences for atherogenesis. FASEB Journal, 2005, 19, 1-25.	0.5	50
30	Tissue Kallikrein Is Essential for Invasive Capacity of Circulating Proangiogenic Cells. Circulation Research, 2011, 108, 284-293.	4.5	50
31	Molecular cloning of TER1, a chemokine receptor-like gene expressed by lymphoid tissues. Journal of Immunology, 1996, 157, 2759-63.	0.8	50
32	A Local Proinflammatory Signalling Loop Facilitates Adverse Age-Associated Arterial Remodeling. PLoS ONE, 2011, 6, e16653.	2.5	48
33	Activation of the Pro-Oxidant PKCÎ²II-p66Shc Signaling Pathway Contributes to Pericyte Dysfunction in Skeletal Muscles of Patients With Diabetes With Critical Limb Ischemia. Diabetes, 2016, 65, 3691-3704.	0.6	48
34	The chemokine receptor CCR8 mediates rescue from dexamethasone-induced apoptosis via an ERK-dependent pathway. Journal of Leukocyte Biology, 2003, 73, 201-207.	3.3	46
35	Targeting stem cell niches and trafficking for cardiovascular therapy. , 2011, 129, 62-81.		43
36	Soluble ST2 Is Regulated by p75 Neurotrophin Receptor and Predicts Mortality in Diabetic Patients With Critical Limb Ischemia. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, e149-60.	2.4	42

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37	The Chemokine CXCL13 (BCA-1) Inhibits FGF-2 Effects on Endothelial Cells. Biochemical and Biophysical Research Communications, 2001, 289, 19-24.	2.1	41
38	Epigenetic Profile of Human Adventitial Progenitor Cells Correlates With Therapeutic Outcomes in a Mouse Model of Limb Ischemia. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 675-688.	2.4	38
39	Overexpression of miR-210 and its significance in ischemic tissue damage. Scientific Reports, 2017, 7, 9563.	3.3	38
40	Impaired Regeneration Contributes to Poor Outcomes in Diabetic Peripheral Artery Disease. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, 34-44.	2.4	37
41	Oxidative stress-dependent activation of collagen synthesis is induced in human pulmonary smooth muscle cells by sera from patients with scleroderma-associated pulmonary hypertension. Orphanet Journal of Rare Diseases, 2014, 9, 123.	2.7	35
42	Sensory neuropathy hampers nociception-mediated bone marrow stem cell release in mice and patients with diabetes. Diabetologia, 2015, 58, 2653-2662.	6.3	33
43	miR-210 Enhances the Therapeutic Potential of Bone-Marrow-Derived Circulating Proangiogenic Cells in the Setting of Limb Ischemia. Molecular Therapy, 2018, 26, 1694-1705.	8.2	33
44	Bone marrow pericyte dysfunction in individuals with type 2 diabetes. Diabetologia, 2019, 62, 1275-1290.	6.3	32
45	Migratory activity of circulating progenitor cells and serum SDF-1Î± predict adverse events in patients with myocardial infarction. Cardiovascular Research, 2013, 100, 192-200.	3.8	31
46	I-309 binds to and activates endothelial cell functions and acts as an angiogenic molecule in vivo. Blood, 2000, 96, 4039-45.	1.4	31
47	MicroRNA-532-5p Regulates Pericyte Function by Targeting the Transcription Regulator BACH1 and Angiopoietin-1. Molecular Therapy, 2018, 26, 2823-2837.	8.2	30
48	Increased Antioxidant Defense Mechanism in Human Adventitia-Derived Progenitor Cells Is Associated with Therapeutic Benefit in Ischemia. Antioxidants and Redox Signaling, 2014, 21, 1591-1604.	5.4	29
49	The Equine Herpesvirus 2 E1 Open Reading Frame Encodes a Functional Chemokine Receptor. Journal of Virology, 1999, 73, 9843-9848.	3.4	29
50	The expression of the BPIFB4 and CXCR4 associates with sustained health in long-living individuals from Cilento-Italy. Aging, 2017, 9, 370-380.	3.1	28
51	Design, fabrication and perivascular implantation of bioactive scaffolds engineered with human adventitial progenitor cells for stimulation of arteriogenesis in peripheral ischemia. Biofabrication, 2016, 8, 015020.	7.1	27
52	Transfer of a human gene variant associated with exceptional longevity improves cardiac function in obese type 2 diabetic mice through induction of the SDF â€1/ CXCR4 signalling pathway. European Journal of Heart Failure, 2020, 22, 1568-1581.	7.1	25
53	Reactive Oxygen Species Adversely Impacts Bone Marrow Microenvironment in Diabetes. Antioxidants and Redox Signaling, 2014, 21, 1620-1633.	5.4	24
54	High-level expression of a recombinant active microbial transglutaminase in Escherichia coli. BMC Biotechnology, 2015, 15, 84.	3.3	23

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55	Coronary artery mechanics induces human saphenous vein remodelling via recruitment of adventitial myofibroblast-like cells mediated by Thrombospondin-1. Theranostics, 2020, 10, 2597-2611.	10.0	23
56	MicroRNA-21/PDCD4 Proapoptotic Signaling From Circulating CD34+ Cells to Vascular Endothelial Cells: A Potential Contributor to Adverse Cardiovascular Outcomes in Patients With Critical Limb Ischemia. Diabetes Care, 2020, 43, 1520-1529.	8.6	22
57	Preclinical and clinical phase I studies of a new recombinant Filgrastim (BK0023) in comparison with NeupogenÂ®. BMC Pharmacology & Toxicology, 2014, 15, 7.	2.4	21
58	Nitric oxideâ€donating statin improves multiple functions of circulating angiogenic cells. British Journal of Pharmacology, 2011, 164, 570-583.	5.4	20
59	Targeting fibrosis in the failing heart with nanoparticles. Advanced Drug Delivery Reviews, 2021, 174, 461-481.	13.7	20
60	Whatâ€™s New in Regenerative Medicine: Split up of the Mesenchymal Stem Cell Family Promises New Hope for Cardiovascular Repair. Journal of Cardiovascular Translational Research, 2012, 5, 689-699.	2.4	18
61	Microfluidic Synthesis of Hybrid TiO₂-Anisotropic Gold Nanoparticles with Visible and Near-Infrared Activity. ACS Applied Materials & Interfaces, 2020, 12, 38522-38529.	8.0	18
62	When a Friend Becomes Your Enemy: Natural Killer Cells in Atherosclerosis and Atherosclerosis-Associated Risk Factors. Frontiers in Immunology, 2021, 12, 798155.	4.8	17
63	Role of TPBG (Trophoblast Glycoprotein) Antigen in Human Pericyte Migratory and Angiogenic Activity. Arteriosclerosis, Thrombosis, and Vascular Biology, 2019, 39, 1113-1124.	2.4	15
64	Dimethyl-2-oxoglutarate improves redox balance and mitochondrial function in muscle pericytes of individuals with diabetes mellitus. Diabetologia, 2020, 63, 2205-2217.	6.3	15
65	The BET Protein Inhibitor Apabetalone Rescues Diabetes-Induced Impairment of Angiogenic Response by Epigenetic Regulation of Thrombospondin-1. Antioxidants and Redox Signaling, 2022, 36, 667-684.	5.4	15
66	Migratory Activity of Circulating Mononuclear Cells Is Associated With Cardiovascular Mortality in Type 2 Diabetic Patients With Critical Limb Ischemia. Diabetes Care, 2014, 37, 1410-1417.	8.6	14
67	Circulating MicroRNA-15a Associates With Retinal Damage in Patients With Early Stage Type 2 Diabetes. Frontiers in Endocrinology, 2020, 11, 254.	3.5	14
68	Bone marrow as a target and accomplice of vascular complications in diabetes. Diabetes/Metabolism Research and Reviews, 2020, 36, e3240.	4.0	13
69	Bone marrow fat: friend or foe in people with diabetes mellitus?. Clinical Science, 2020, 134, 1031-1048.	4.3	13
70	Migration towards SDF-1 selects angiogenin-expressing bone marrow monocytes endowed with cardiac reparative activity in patients with previous myocardial infarction. Stem Cell Research and Therapy, 2015, 6, 53.	5.5	12
71	Recent Advances in KEAP1/NRF2-Targeting Strategies by Phytochemical Antioxidants, Nanoparticles, and Biocompatible Scaffolds for the Treatment of Diabetic Cardiovascular Complications. Antioxidants and Redox Signaling, 2022, 36, 707-728.	5.4	12
72	Multi-Omics Analysis of Diabetic Heart Disease in the db/db Model Reveals Potential Targets for Treatment by a Longevity-Associated Gene. Cells, 2020, 9, 1283.	4.1	11

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73	Cell Therapy for Critical Limb Ischemia: Advantages, Limitations, and New Perspectives for Treatment of Patients with Critical Diabetic Vasculopathy. Current Diabetes Reports, 2021, 21, 11.	4.2	11
74	MicroRNAs orchestrating senescence of endothelial and vascular smooth muscle cells. Vascular Biology (Bristol, England), 2019, 1, H75-H81.	3.2	11
75	Role of human tissue kallikrein in gastrointestinal stromal tumour invasion. British Journal of Cancer, 2010, 103, 1422-1431.	6.4	10
76	Activation of Bone Marrow Adaptive Immunity in Type 2 Diabetes: Rescue by Co-stimulation Modulator Abatacept. Frontiers in Immunology, 2021, 12, 609406.	4.8	9
77	Hematopoietic progenitor cell liabilities and alarmins S100A8/A9â€related inflammaging associate with frailty and predict poor cardiovascular outcomes in older adults. Aging Cell, 2022, 21, e13545.	6.7	9
78	Hypoxia-induced miR-210 modulates the inflammatory response and fibrosis upon acute ischemia. Cell Death and Disease, 2021, 12, 435.	6.3	8
79	Modulation of soluble receptor for advanced glycation endÂproductsÂisoforms and advanced glycation endÂproducts in long-livingÂindividuals. Biomarkers in Medicine, 2021, 15, 785-796.	1.4	7
80	The genetics of exceptional longevity identifies new druggable targets for vascular protection and repair. Pharmacological Research, 2016, 114, 169-174.	7.1	4
81	Personalized Cardiovascular Regenerative Medicine: Targeting the Extreme Stages of Life. Frontiers in Cardiovascular Medicine, 2019, 6, 177.	2.4	4
82	In Vitro and In Vivo Models to Study Chemokine Regulation of Angiogenesis. , 2004, 239, 223-232.		3
83	Enhancing Stem Cell Mobility: New Hope for Treatment of Cardiovascular Complications in Patients With Diabetes?: Figure 1. Diabetes, 2015, 64, 2704-2707.	0.6	3
84	Training Monocytes by Physical Exercise. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 1733-1735.	2.4	2
85	Treatment of COVID-19 by stage: any space left for mesenchymal stem cell therapy?. Regenerative Medicine, 2021, 16, 477-494.	1.7	2
86	I-309 binds to and activates endothelial cell functions and acts as an angiogenic molecule in vivo. Blood, 2000, 96, 4039-4045.	1.4	2
87	Close Encounters of the Third Kind. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 243-244.	2.4	1
88	Recombinant Filgrastim (BK0023) Pharmacodynamics and Pharmacokinetics After Single and Multiple Escalating Doses in an Equivalence Study in Healthy Men. Clinical Drug Investigation, 2015, 35, 533-545.	2.2	1
89	The Peter Principle in Cardiovascular Cell Therapy. Circulation Research, 2016, 119, 1283-1285.	4.5	1
90	Editorial: Mechanisms and Implications of the Aging of Cardiovascular Regenerative Cells. Frontiers in Cardiovascular Medicine, 2018, 5, 93.	2.4	1

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91	621-P: Cardiovascular Mortality and Orthostatic Hypotension in Type 2 Diabetic Patients (T2D) with Lower Limb Lesionsâ€"Italian Diabetic Patients' Association-Section of Treviso Project. Diabetes, 2019, 68, .	0.6	1
92	MicroRNAs in Diabetes and Its Vascular Complications. Cardiac and Vascular Biology, 2017, , 39-59.	0.2	0
93	P3771YAP-dependent signalling predisposes pathologic evolution of human saphenous vein progenitors by altered mechano-perception in vein bypass failure. European Heart Journal, 2018, 39, .	2.2	0
94	Chemokine MCP-1 feedback loop between adipocytes and mesenchymal stromal cells causes unremitting fat accumulation and contributes to osteocyte and hematopoietic stem cell rarefaction in the bone marrow of diabetic patients. Cytotherapy, 2018, 20, S37.	0.7	0
95	P5400CD34+ cells predict long-term cardiovascular mortality in people with critical limb ischemia: a possible pathogenic role of the microRNA-21/PDCD4 axis. European Heart Journal, 2019, 40, .	2.2	0
96	The sodium-hydrogen antiporter: a new target to boost post-ischemic angiogenesis in diabetes?. International Journal of Cardiology, 2019, 277, 220-221.	1.7	0
97	Commentary: Mending a broken heart: The ongoing quest for mesenchymal stem cell therapy for ischemic cardiomyopathy. JTCVS Open, 2021, , .	0.5	0
98	Adventitial and Skeletal Muscle Pericytes in Health and Ischemic Tissue Regeneration. Pancreatic Islet Biology, 2021, , 245-273.	0.3	0
99	Abstract 18521: Sensory Neuropathy Jeopardizes Nociceptive-mediated Liberation and Homing of Stem Cells in Mice and Patients With Diabetes. Circulation, 2014, 130, .	1.6	0
100	Rescue of cardiac function in obese type-2 diabetic mice by transfer of a human longevity gene. European Heart Journal, 2020, 41, .	2.2	0
101	Hypoxia-induced miR-210 modulates inflammatory response and fibrosis upon acute peripheral ischemia. European Heart Journal, 2020, 41, .	2.2	0