

Elisa Avolio

List of Publications by Year in descending order

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34
papers

1,514
citations

623734

14
h-index

395702

33
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37
all docs

37
docs citations

37
times ranked

2188
citing authors

#	ARTICLE	IF	CITATIONS
1	Cardiac pericyte reprogramming by MEK inhibition promotes arteriogenesis and angiogenesis of the ischemic heart. <i>Journal of Clinical Investigation</i> , 2022, 132, .	8.2	18
2	Heart failure impairs the mechanotransduction properties of human cardiac pericytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2021, 151, 15-30.	1.9	17
3	Secreted Protein Acidic and Cysteine Rich Extracellular Matrix Protein is Enriched in the Bioactive Fraction of the Human Vascular Pericyte Secretome. <i>Antioxidants and Redox Signaling</i> , 2021, 34, 1151-1164.	5.4	11
4	Human adventitial pericytes provide a unique source of anti-calcific cells for cardiac valve engineering: Role of microRNA-132-3p. <i>Free Radical Biology and Medicine</i> , 2021, 165, 137-151.	2.9	7
5	Treatment of COVID-19 by stage: any space left for mesenchymal stem cell therapy?. <i>Regenerative Medicine</i> , 2021, 16, 477-494.	1.7	2
6	Reconstruction of the Swine Pulmonary Artery Using a Graft Engineered With Syngeneic Cardiac Pericytes. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 715717.	4.1	5
7	The SARS-CoV-2 Spike protein disrupts human cardiac pericytes function through CD147 receptor-mediated signalling: a potential non-infective mechanism of COVID-19 microvascular disease. <i>Clinical Science</i> , 2021, 135, 2667-2689.	4.3	97
8	Fabrication of New Hybrid Scaffolds for in vivo Perivascular Application to Treat Limb Ischemia. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 598890.	2.4	9
9	Transfer of a human gene variant associated with exceptional longevity improves cardiac function in obese type 2 diabetic mice through induction of the SDF α 1/ CXCR4 signalling pathway. <i>European Journal of Heart Failure</i> , 2020, 22, 1568-1581.	7.1	25
10	Multi-Omics Analysis of Diabetic Heart Disease in the db/db Model Reveals Potential Targets for Treatment by a Longevity-Associated Gene. <i>Cells</i> , 2020, 9, 1283.	4.1	11
11	In Vitro and In Vivo Preclinical Testing of Pericyte-Engineered Grafts for the Correction of Congenital Heart Defects. <i>Journal of the American Heart Association</i> , 2020, 9, e014214.	3.7	14
12	Umbilical Cord Pericytes Provide a Viable Alternative to Mesenchymal Stem Cells for Neonatal Vascular Engineering. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 609980.	2.4	3
13	The Effect of Matrix Stiffness of Biomimetic Gelatin Nanofibrous Scaffolds on Human Cardiac Pericyte Behavior. <i>ACS Applied Bio Materials</i> , 2019, 2, 4385-4396.	4.6	5
14	Role of TPBG (Trophoblast Glycoprotein) Antigen in Human Pericyte Migratory and Angiogenic Activity. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019, 39, 1113-1124.	2.4	15
15	Nerve growth factor gene therapy improves bone marrow sensory innervation and nociceptor-mediated stem cell release in a mouse model of type 1 diabetes with limb ischaemia. <i>Diabetologia</i> , 2019, 62, 1297-1311.	6.3	13
16	Personalized Cardiovascular Regenerative Medicine: Targeting the Extreme Stages of Life. <i>Frontiers in Cardiovascular Medicine</i> , 2019, 6, 177.	2.4	4
17	Transplantation of Allogeneic Pericytes Improves Myocardial Vascularization and Reduces Interstitial Fibrosis in a Swine Model of Reperfused Acute Myocardial Infarction. <i>Journal of the American Heart Association</i> , 2018, 7, .	3.7	38
18	The adipokine leptin modulates adventitial pericyte functions by autocrine and paracrine signalling. <i>Scientific Reports</i> , 2017, 7, 5443.	3.3	15

#	ARTICLE	IF	CITATIONS
19	Perivascular cells and tissue engineering: Current applications and untapped potential. , 2017, 171, 83-92.		62
20	Discovering cardiac pericyte biology: From physiopathological mechanisms to potential therapeutic applications in ischemic heart disease. <i>Vascular Pharmacology</i> , 2016, 86, 53-63.	2.1	49
21	Migration towards SDF-1 selects angiogenin-expressing bone marrow monocytes endowed with cardiac reparative activity in patients with previous myocardial infarction. <i>Stem Cell Research and Therapy</i> , 2015, 6, 53.	5.5	12
22	Stem cell therapy and tissue engineering for correction of congenital heart disease. <i>Frontiers in Cell and Developmental Biology</i> , 2015, 3, 39.	3.7	35
23	Training Monocytes by Physical Exercise. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 1733-1735.	2.4	2
24	Expansion and Characterization of Neonatal Cardiac Pericytes Provides a Novel Cellular Option for Tissue Engineering in Congenital Heart Disease. <i>Journal of the American Heart Association</i> , 2015, 4, e002043.	3.7	64
25	Epigenetic Profile of Human Adventitial Progenitor Cells Correlates With Therapeutic Outcomes in a Mouse Model of Limb Ischemia. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 675-688.	2.4	38
26	Combined Intramyocardial Delivery of Human Pericytes and Cardiac Stem Cells Additively Improves the Healing of Mouse Infarcted Hearts Through Stimulation of Vascular and Muscular Repair. <i>Circulation Research</i> , 2015, 116, e81-94.	4.5	116
27	Cardiac Nerve Growth Factor Overexpression Induces Bone Marrow-derived Progenitor Cells Mobilization and Homing to the Infarcted Heart. <i>Molecular Therapy</i> , 2015, 23, 1854-1866.	8.2	14
28	Combined Intramyocardial Delivery of Human Pericytes and Cardiac Stem Cells Additively Improves the Healing of Mouse Infarcted Hearts Through Stimulation of Vascular and Muscular Repair. <i>Circulation Research</i> , 2015, 116, .	4.5	1
29	Ex Vivo Molecular Rejuvenation Improves the Therapeutic Activity of Senescent Human Cardiac Stem Cells in a Mouse Model of Myocardial Infarction. <i>Stem Cells</i> , 2014, 32, 2373-2385.	3.2	57
30	Boosting the pentose phosphate pathway restores cardiac progenitor cell availability in diabetes. <i>Cardiovascular Research</i> , 2013, 97, 55-65.	3.8	57
31	Global Remodeling of the Vascular Stem Cell Niche in Bone Marrow of Diabetic Patients. <i>Circulation Research</i> , 2013, 112, 510-522.	4.5	135
32	Role for Substance P-based Nociceptive Signaling in Progenitor Cell Activation and Angiogenesis During Ischemia in Mice and in Human Subjects. <i>Circulation</i> , 2012, 125, 1774-1786.	1.6	90
33	Intravenous Gene Therapy With PIM-1 Via a Cardiotropic Viral Vector Halts the Progression of Diabetic Cardiomyopathy Through Promotion of Prosurvival Signaling. <i>Circulation Research</i> , 2011, 108, 1238-1251.	4.5	137
34	Transplantation of Human Pericyte Progenitor Cells Improves the Repair of Infarcted Heart Through Activation of an Angiogenic Program Involving Micro-RNA-132. <i>Circulation Research</i> , 2011, 109, 894-906.	4.5	332