

Jean-Sebastien Silvestre

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

122 papers	8,897 citations	53 h-index	93 g-index
141 ext. papers	9,884 ext. citations	10 avg, IF	5.54 L-index

#	Paper	IF	Citations
122	Splenic Marginal Zone B Lymphocytes Regulate Cardiac Remodeling After Acute Myocardial Infarction in Mice.. <i>Journal of the American College of Cardiology</i> , 2022 , 79, 632-647	15.1	2
121	Extracellular vesicles fail to trigger the generation of new cardiomyocytes in chronically infarcted hearts. <i>Theranostics</i> , 2021 , 11, 10114-10124	12.1	1
120	Cytotoxic CD8 T cells promote granzyme B-dependent adverse post-ischemic cardiac remodeling. <i>Nature Communications</i> , 2021 , 12, 1483	17.4	19
119	Extracellular vesicles from human cardiovascular progenitors trigger a reparative immune response in infarcted hearts. <i>Cardiovascular Research</i> , 2021 , 117, 292-307	9.9	27
118	Endothelial Cell Indoleamine 2, 3-Dioxygenase 1 Alters Cardiac Function After Myocardial Infarction Through Kynurenine. <i>Circulation</i> , 2021 , 143, 566-580	16.7	10
117	Obesity in Midlife Hampers Resting and Sensory-Evoked Cerebral Blood Flow in Mice. <i>Obesity</i> , 2021 , 29, 150-158	8	5
116	TREM-1 orchestrates angiotensin II-induced monocyte trafficking and promotes experimental abdominal aortic aneurysm. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	10
115	Innate Lymphoid Cells Promote Recovery of Ventricular Function After Myocardial Infarction. <i>Journal of the American College of Cardiology</i> , 2021 , 78, 1127-1142	15.1	9
114	Is aberrant CD8+ T cell activation by hypertension associated with cardiac injury in severe cases of COVID-19?. <i>Cellular and Molecular Immunology</i> , 2020 , 17, 675-676	15.4	8
113	Evaluation of cardiac dysfunction in adult zebrafish using high frequency echocardiography. <i>Life Sciences</i> , 2020 , 253, 117732	6.8	4
112	Anti-integrin α therapy improves cardiac fibrosis after myocardial infarction by blunting cardiac PW1 stromal cells. <i>Scientific Reports</i> , 2020 , 10, 11404	4.9	9
111	Lung-derived HMGB1 is detrimental for vascular remodeling of metabolically imbalanced arterial macrophages. <i>Nature Communications</i> , 2020 , 11, 4311	17.4	12
110	Dynamics of Cardiac Neutrophil Diversity in Murine Myocardial Infarction. <i>Circulation Research</i> , 2020 , 127, e232-e249	15.7	43
109	Iron Regulator Heparin Impairs Macrophage-Dependent Cardiac Repair After Injury. <i>Circulation</i> , 2019 , 139, 1530-1547	16.7	23
108	Peripheral post-ischemic vascular repair is impaired in a murine model of Alzheimer's disease. <i>Angiogenesis</i> , 2018 , 21, 557-569	10.6	5
107	Acellular therapeutic approach for heart failure: in vitro production of extracellular vesicles from human cardiovascular progenitors. <i>European Heart Journal</i> , 2018 , 39, 1835-1847	9.5	84
106	Intra-Cardiac Release of Extracellular Vesicles Shapes Inflammation Following Myocardial Infarction. <i>Circulation Research</i> , 2018 , 123, 100-106	15.7	113

105	Cardiomyocytes and Macrophages Discourse on the Method to Govern Cardiac Repair. <i>Frontiers in Cardiovascular Medicine</i> , 2018 , 5, 134	5.4	21
104	Bone marrow-derived mesenchymal stem cell-loaded fibrin patches act as a reservoir of paracrine factors in chronic myocardial infarction. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 3417-3427	4.4	22
103	Very Small Embryonic-like Stem Cells Are Mobilized in Human Peripheral Blood during Hypoxemic COPD Exacerbations and Pulmonary Hypertension. <i>Stem Cell Reviews and Reports</i> , 2017 , 13, 561-566	6.4	15
102	Human very Small Embryonic-like Cells Support Vascular Maturation and Therapeutic Revascularization Induced by Endothelial Progenitor Cells. <i>Stem Cell Reviews and Reports</i> , 2017 , 13, 552-560	6.4	25
101	Stem-Cell-Based Therapies for Vascular Regeneration in Peripheral Artery Diseases 2016 , 324-346		
100	Mast cells regulate myofilament calcium sensitization and heart function after myocardial infarction. <i>Journal of Experimental Medicine</i> , 2016 , 213, 1353-74	16.6	70
99	Biomarkers of vascular dysfunction and cognitive decline in patients with Alzheimer's disease: no evidence for association in elderly subjects. <i>Aging Clinical and Experimental Research</i> , 2016 , 28, 1133-1141	4.8	6
98	Myeloid-Epithelial-Reproductive Receptor Tyrosine Kinase and Milk Fat Globule Epidermal Growth Factor 8 Coordinately Improve Remodeling After Myocardial Infarction via Local Delivery of Vascular Endothelial Growth Factor. <i>Circulation</i> , 2016 , 133, 826-39	16.7	73
97	Cardiovascular progenitor-derived extracellular vesicles recapitulate the beneficial effects of their parent cells in the treatment of chronic heart failure. <i>Journal of Heart and Lung Transplantation</i> , 2016 , 35, 795-807	5.8	121
96	Immune Modulation of Cardiac Repair and Regeneration: The Art of Mending Broken Hearts. <i>Frontiers in Cardiovascular Medicine</i> , 2016 , 3, 40	5.4	35
95	Thrombin receptor PAR-1 activation on endothelial progenitor cells enhances chemotaxis-associated genes expression and leukocyte recruitment by a COX-2-dependent mechanism. <i>Angiogenesis</i> , 2015 , 18, 347-59	10.6	19
94	TREM-1 Mediates Inflammatory Injury and Cardiac Remodeling Following Myocardial Infarction. <i>Circulation Research</i> , 2015 , 116, 1772-82	15.7	77
93	Strategies to Enhance the Efficiency of Endothelial Progenitor Cell Therapy by Ephrin B2 Pretreatment and Coadministration with Smooth Muscle Progenitor Cells on Vascular Function During the Wound-Healing Process in Irradiated or Nonirradiated Condition. <i>Cell Transplantation</i> , 2015 , 24, 1343-61	4	11
92	Characterization of nerve and microvessel damage and recovery in type 1 diabetic mice after permanent femoral artery ligation. <i>Journal of Neuroscience Research</i> , 2015 , 93, 1451-61	4.4	4
91	Bone-marrow-derived very small embryonic-like stem cells in patients with critical leg ischaemia: evidence of vasculogenic potential. <i>Thrombosis and Haemostasis</i> , 2015 , 113, 1084-94	7	67
90	The Evolution of the Stem Cell Theory for Heart Failure. <i>EBioMedicine</i> , 2015 , 2, 1871-9	8.8	18
89	Phase I trial: the use of autologous cultured adipose-derived stroma/stem cells to treat patients with non-revascularizable critical limb ischemia. <i>Cytotherapy</i> , 2014 , 16, 245-57	4.8	205
88	MicroRNA-21 coordinates human multipotent cardiovascular progenitors therapeutic potential. <i>Stem Cells</i> , 2014 , 32, 2908-22	5.8	28

87	Diabetes mellitus and ischemic diseases: molecular mechanisms of vascular repair dysfunction. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014 , 34, 1126-35	9.4	102
86	HIF-prolyl hydroxylase 2 inhibition enhances the efficiency of mesenchymal stem cell-based therapies for the treatment of critical limb ischemia. <i>Stem Cells</i> , 2014 , 32, 231-43	5.8	36
85	Multiparametric optical and MR imaging demonstrate inhibition of tumor angiogenesis natural history by mural cell therapy. <i>Magnetic Resonance in Medicine</i> , 2014 , 72, 841-9	4.4	1
84	Evidence for Vasculogenic Potential and Endothelial Differentiation of Bone-Marrow-Derived Very Small Embryonic-like Stem Cells. <i>Blood</i> , 2014 , 124, 5120-5120	2.2	
83	Hypoxia, Arterial Blood Pressure, and Microcirculation 2014 , 123-136		
82	Endothelial Progenitor Cells and Cardiovascular Ischemic Diseases: Characterization, Functions, and Potential Clinical Applications 2014 , 235-264		
81	Angiogenesis in the infarcted myocardium. <i>Antioxidants and Redox Signaling</i> , 2013 , 18, 1100-13	8.4	164
80	Postischemic revascularization: from cellular and molecular mechanisms to clinical applications. <i>Physiological Reviews</i> , 2013 , 93, 1743-802	47.9	173
79	B lymphocytes trigger monocyte mobilization and impair heart function after acute myocardial infarction. <i>Nature Medicine</i> , 2013 , 19, 1273-80	50.5	313
78	Evaluation of rat heart microvasculature with high-spatial-resolution susceptibility-weighted MR imaging. <i>Radiology</i> , 2013 , 269, 277-82	20.5	3
77	On-site education of VEGF-recruited monocytes improves their performance as angiogenic and arteriogenic accessory cells. <i>Journal of Experimental Medicine</i> , 2013 , 210, 2611-25	16.6	80
76	Neuroblast survival depends on mature vascular network formation after mouse stroke: role of endothelial and smooth muscle progenitor cell co-administration. <i>European Journal of Neuroscience</i> , 2012 , 35, 1208-17	3.5	47
75	Pro-angiogenic cell-based therapy for the treatment of ischemic cardiovascular diseases. <i>Thrombosis Research</i> , 2012 , 130 Suppl 1, S90-4	8.2	18
74	Angiogenic potential of BM MSCs derived from patients with critical leg ischemia. <i>Bone Marrow Transplantation</i> , 2012 , 47, 997-1000	4.4	35
73	Homeostatic and tissue reparation defaults in mice carrying selective genetic invalidation of CXCL12/proteoglycan interactions. <i>Circulation</i> , 2012 , 126, 1882-95	16.7	45
72	Sympathetic nervous system regulates bone marrow-derived cell egress through endothelial nitric oxide synthase activation: role in postischemic tissue remodeling. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012 , 32, 643-53	9.4	29
71	The chemokine decoy receptor D6 prevents excessive inflammation and adverse ventricular remodeling after myocardial infarction. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012 , 32, 2206-13	9.4	64
70	C/EBP homologous protein-10 (CHOP-10) limits postnatal neovascularization through control of endothelial nitric oxide synthase gene expression. <i>Circulation</i> , 2012 , 125, 1014-26	16.7	33

69	Ephrin-B2-activated peripheral blood mononuclear cells from diabetic patients restore diabetes-induced impairment of postischemic neovascularization. <i>Diabetes</i> , 2012 , 61, 2621-32	0.9	21
68	Towards the therapeutic use of vascular smooth muscle progenitor cells. <i>Cardiovascular Research</i> , 2012 , 95, 205-14	9.9	28
67	Endothelial nitric oxide synthase overexpression restores the efficiency of bone marrow mononuclear cell-based therapy. <i>American Journal of Pathology</i> , 2011 , 178, 55-60	5.8	23
66	alpha2beta1 integrin controls association of Rac with the membrane and triggers quiescence of endothelial cells. <i>Journal of Cell Science</i> , 2010 , 123, 2491-501	5.3	25
65	Increased vitreous shedding of microparticles in proliferative diabetic retinopathy stimulates endothelial proliferation. <i>Diabetes</i> , 2010 , 59, 694-701	0.9	58
64	Distinct patterns of circulating endothelial cells in pulmonary hypertension. <i>European Respiratory Journal</i> , 2010 , 36, 1284-93	13.6	54
63	Regulation of monocyte subset systemic levels by distinct chemokine receptors controls post-ischaemic neovascularization. <i>Cardiovascular Research</i> , 2010 , 88, 186-95	9.9	54
62	Interaction between the microcirculatory network and the systemic arterial pressure. <i>Artery Research</i> , 2010 , 4, 108	2.2	
61	Small interfering RNAs induce target-independent inhibition of tumor growth and vasculature remodeling in a mouse model of hepatocellular carcinoma. <i>American Journal of Pathology</i> , 2010 , 177, 3192-201	5.8	49
60	Inhibition of prolyl hydroxylase domain proteins promotes therapeutic revascularization. <i>Circulation</i> , 2009 , 120, 50-9	16.7	68
59	Preconditioning by mitochondrial reactive oxygen species improves the proangiogenic potential of adipose-derived cells-based therapy. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009 , 29, 1093-9	9.4	55
58	Regulatory T cells modulate postischemic neovascularization. <i>Circulation</i> , 2009 , 120, 1415-25	16.7	62
57	Microparticles from ischemic muscle promotes postnatal vasculogenesis. <i>Circulation</i> , 2009 , 119, 2808-17	16.7	105
56	Adiponectinemia controls pro-angiogenic cell therapy. <i>Stem Cells</i> , 2009 , 27, 2712-21	5.8	20
55	Circulating progenitor cells and cardiovascular outcomes: latest evidence on angiotensin-converting enzyme inhibitors. <i>European Heart Journal Supplements</i> , 2009 , 11, E17-E21	1.5	4
54	CD40 ligand+ microparticles from human atherosclerotic plaques stimulate endothelial proliferation and angiogenesis a potential mechanism for intraplaque neovascularization. <i>Journal of the American College of Cardiology</i> , 2008 , 52, 1302-11	15.1	145
53	Vascular progenitor cells and diabetes: role in postischemic neovascularisation. <i>Diabetes and Metabolism</i> , 2008 , 34 Suppl 1, S33-6	5.4	28
52	Combination of the angiotensin-converting enzyme inhibitor perindopril and the diuretic indapamide activate postnatal vasculogenesis in spontaneously hypertensive rats. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2008 , 325, 766-73	4.7	31

51	Altered TP receptor function in isolated, perfused kidneys of nondiabetic and diabetic ApoE-deficient mice. <i>American Journal of Physiology - Renal Physiology</i> , 2008 , 294, F120-9	4.3	22
50	Hypertension impairs postnatal vasculogenesis: role of antihypertensive agents. <i>Hypertension</i> , 2008 , 51, 1537-44	8.5	51
49	Ex vivo priming of endothelial progenitor cells with SDF-1 before transplantation could increase their proangiogenic potential. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2008 , 28, 644-50	9.4	163
48	Chronic hypoxia-induced angiogenesis normalizes blood pressure in spontaneously hypertensive rats. <i>Circulation Research</i> , 2008 , 103, 761-9	15.7	30
47	Coadministration of endothelial and smooth muscle progenitor cells enhances the efficiency of proangiogenic cell-based therapy. <i>Circulation Research</i> , 2008 , 103, 751-60	15.7	77
46	Bone morphogenetic proteins 2 and 4 are selectively expressed by late outgrowth endothelial progenitor cells and promote neoangiogenesis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2008 , 28, 2137-43	9.4	90
45	Post-ischaemic neovascularization and inflammation. <i>Cardiovascular Research</i> , 2008 , 78, 242-9	9.9	103
44	Modulation of macrophage activation state protects tissue from necrosis during critical limb ischemia in thrombospondin-1-deficient mice. <i>PLoS ONE</i> , 2008 , 3, e3950	3.7	57
43	Ultrasonic assessment of hepatic blood flow as a marker of mouse hepatocarcinoma. <i>Ultrasound in Medicine and Biology</i> , 2007 , 33, 561-70	3.5	24
42	Vascular fate of adipose tissue-derived adult stromal cells in the ischemic murine brain: A combined imaging-histological study. <i>NeuroImage</i> , 2007 , 34, 1-11	7.9	35
41	Evidence of a role for lactadherin in Alzheimer's disease. <i>American Journal of Pathology</i> , 2007 , 170, 921-9	5.8	74
40	PSGL-1-mediated activation of EphB4 increases the proangiogenic potential of endothelial progenitor cells. <i>Journal of Clinical Investigation</i> , 2007 , 117, 1527-37	15.9	92
39	Thromboxane A2/prostaglandin H2 receptor activation mediates angiotensin II-induced postischemic neovascularization. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2006 , 26, 488-93	9.4	19
38	Increase in vascular permeability and vasodilation are critical for proangiogenic effects of stem cell therapy. <i>Circulation</i> , 2006 , 114, 328-38	16.7	74
37	Arteries or veins?: VEGF helps EPCs choose their cAMP. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2006 , 26, 1934-5	9.4	1
36	Tetrapeptide AcSDKP induces postischemic neovascularization through monocyte chemoattractant protein-1 signaling. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2006 , 26, 773-9	9.4	25
35	NADPH oxidase-derived overproduction of reactive oxygen species impairs postischemic neovascularization in mice with type 1 diabetes. <i>American Journal of Pathology</i> , 2006 , 169, 719-28	5.8	141
34	Hormones and the neovascularization process: role of angiotensin II. <i>Exs</i> , 2005 , 77-93		1

33	Lactadherin promotes VEGF-dependent neovascularization. <i>Nature Medicine</i> , 2005 , 11, 499-506	50.5	248
32	Dual effect of angiotensin-converting enzyme inhibition on angiogenesis in type 1 diabetic mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2005 , 25, 65-70	9.4	95
31	Impairment in postischemic neovascularization in mice lacking the CXC chemokine receptor 3. <i>Circulation Research</i> , 2005 , 96, 576-82	15.7	38
30	Aldosterone enhances ischemia-induced neovascularization through angiotensin II-dependent pathway. <i>Circulation</i> , 2004 , 109, 1933-7	16.7	72
29	Akt/protein kinase B and endothelial nitric oxide synthase mediate muscular neovascularization induced by tissue kallikrein gene transfer. <i>Circulation</i> , 2004 , 110, 1638-44	16.7	46
28	Plasticity of human adipose lineage cells toward endothelial cells: physiological and therapeutic perspectives. <i>Circulation</i> , 2004 , 109, 656-63	16.7	1144
27	Impairment in ischemia-induced neovascularization in diabetes: bone marrow mononuclear cell dysfunction and therapeutic potential of placenta growth factor treatment. <i>American Journal of Pathology</i> , 2004 , 164, 457-66	5.8	158
26	Transplantation of bone marrow-derived mononuclear cells in ischemic apolipoprotein E-knockout mice accelerates atherosclerosis without altering plaque composition. <i>Circulation</i> , 2003 , 108, 2839-42	16.7	121
25	Blockade of advanced glycation end-product formation restores ischemia-induced angiogenesis in diabetic mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 8555-60	11.5	123
24	Expression and modulation of steroidogenic acute regulatory protein messenger ribonucleic acid in rat cardiocytes and after myocardial infarction. <i>Endocrinology</i> , 2003 , 144, 1861-8	4.8	27
23	Vascular endothelial growth factor-B promotes in vivo angiogenesis. <i>Circulation Research</i> , 2003 , 93, 114-23	23.7	155
22	Rho-associated protein kinase contributes to early atherosclerotic lesion formation in mice. <i>Circulation Research</i> , 2003 , 93, 884-8	15.7	139
21	Antiangiogenic effect of angiotensin II type 2 receptor in ischemia-induced angiogenesis in mice hindlimb. <i>Circulation Research</i> , 2002 , 90, 1072-9	15.7	93
20	Angiotensin II angiogenic effect in vivo involves vascular endothelial growth factor- and inflammation-related pathways. <i>Laboratory Investigation</i> , 2002 , 82, 747-56	5.9	194
19	Endothelial nitric oxide synthase lies downstream from angiotensin II-induced angiogenesis in ischemic hindlimb. <i>Hypertension</i> , 2002 , 39, 830-5	8.5	80
18	Very-low-dose combination of the angiotensin-converting enzyme inhibitor perindopril and the diuretic indapamide induces an early and sustained increase in neovascularization in rat ischemic legs. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2002 , 303, 1038-43	4.7	33
17	Decreased arteriolar density in endothelial nitric oxide synthase knockout mice is due to hypertension, not to the constitutive defect in endothelial nitric oxide synthase enzyme. <i>Journal of Hypertension</i> , 2002 , 20, 273-80	1.9	35
16	Interleukin-18/interleukin-18 binding protein signaling modulates ischemia-induced neovascularization in mice hindlimb. <i>Circulation Research</i> , 2002 , 91, 441-8	15.7	56

15	Regulation of matrix metalloproteinase activity in ischemic tissue by interleukin-10: role in ischemia-induced angiogenesis. <i>Circulation Research</i> , 2001 , 89, 259-64	15.7	91
14	Proangiogenic effect of angiotensin-converting enzyme inhibition is mediated by the bradykinin B(2) receptor pathway. <i>Circulation Research</i> , 2001 , 89, 678-83	15.7	150
13	Increased ischemia-induced angiogenesis in the staggerer mouse, a mutant of the nuclear receptor Roralpha. <i>Circulation Research</i> , 2001 , 89, 1209-15	15.7	37
12	Chronic blockade of endothelin receptors improves ischemia-induced angiogenesis in rat hindlimbs through activation of vascular endothelial growth factor- α pathway. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2001 , 21, 1598-603	9.4	41
11	Cardiac aldosterone production and ventricular remodeling. <i>Kidney International</i> , 2000 , 57, 1346-51	9.9	80
10	Antiangiogenic effect of interleukin-10 in ischemia-induced angiogenesis in mice hindlimb. <i>Circulation Research</i> , 2000 , 87, 448-52	15.7	173
9	Different regulation of cardiac and renal corticosteroid receptors in aldosterone-salt treated rats: effect of hypertension and glucocorticoids. <i>Journal of Molecular and Cellular Cardiology</i> , 2000 , 32, 1249-58	5.8	20
8	Aldosterone and the heart: towards a physiological function?. <i>Cardiovascular Research</i> , 1999 , 43, 7-12	9.9	46
7	Activation of cardiac aldosterone production in rat myocardial infarction: effect of angiotensin II receptor blockade and role in cardiac fibrosis. <i>Circulation</i> , 1999 , 99, 2694-701	16.7	326
6	Angiotensin AT1 receptor subtype as a cardiac target of aldosterone: role in aldosterone-salt-induced fibrosis. <i>Hypertension</i> , 1999 , 33, 981-6	8.5	208
5	The cardiac endocrine aldosterone system. <i>Current Opinion in Endocrinology, Diabetes and Obesity</i> , 1999 , 6, 204		4
4	Cardiac senescence is associated with enhanced expression of angiotensin II receptor subtypes. <i>Endocrinology</i> , 1998 , 139, 2579-87	4.8	77
3	Myocardial production of aldosterone and corticosterone in the rat. Physiological regulation. <i>Journal of Biological Chemistry</i> , 1998 , 273, 4883-91	5.4	340
2	Biological determinants of aldosterone-induced cardiac fibrosis in rats. <i>Hypertension</i> , 1995 , 26, 971-8	8.5	122
1	Time-resolved single-cell transcriptomics uncovers dynamics of cardiac neutrophil diversity in murine myocardial infarction		4