

Aernout Luttun

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90 papers	8,423 citations	44 h-index	91 g-index
99 ext. papers	9,161 ext. citations	10.1 avg, IF	5.11 L-index

#	Paper	IF	Citations
90	Synergism between vascular endothelial growth factor and placental growth factor contributes to angiogenesis and plasma extravasation in pathological conditions. <i>Nature Medicine</i> , 2001 , 7, 575-83	50.5	1346
89	Revascularization of ischemic tissues by PlGF treatment, and inhibition of tumor angiogenesis, arthritis and atherosclerosis by anti-Flt1. <i>Nature Medicine</i> , 2002 , 8, 831-40	50.5	916
88	Inhibition of plasminogen activators or matrix metalloproteinases prevents cardiac rupture but impairs therapeutic angiogenesis and causes cardiac failure. <i>Nature Medicine</i> , 1999 , 5, 1135-42	50.5	677
87	Heterozygous deficiency of PHD2 restores tumor oxygenation and inhibits metastasis via endothelial normalization. <i>Cell</i> , 2009 , 136, 839-851	56.2	642
86	Placental growth factor and its receptor, vascular endothelial growth factor receptor-1: novel targets for stimulation of ischemic tissue revascularization and inhibition of angiogenic and inflammatory disorders. <i>Journal of Thrombosis and Haemostasis</i> , 2003 , 1, 1356-70	15.4	279
85	Placental growth factor, a member of the VEGF family, contributes to the development of choroidal neovascularization. <i>Investigative Ophthalmology and Visual Science</i> , 2003 , 44, 3186-93		266
84	Loss of matrix metalloproteinase-9 or matrix metalloproteinase-12 protects apolipoprotein E-deficient mice against atherosclerotic media destruction but differentially affects plaque growth. <i>Circulation</i> , 2004 , 109, 1408-14	16.7	244
83	Isolation and characterization of kidney-derived stem cells. <i>Journal of the American Society of Nephrology: JASN</i> , 2006 , 17, 3028-40	12.7	227
82	Placental growth factor (PlGF) and its receptor Flt-1 (VEGFR-1): novel therapeutic targets for angiogenic disorders. <i>Annals of the New York Academy of Sciences</i> , 2002 , 979, 80-93	6.5	174
81	The role of fatty acid oxidation in lymphangiogenesis. <i>Nature</i> , 2017 , 542, 49-54	50.4	167
80	Failure of thrombus to resolve in urokinase-type plasminogen activator gene-knockout mice: rescue by normal bone marrow-derived cells. <i>Circulation</i> , 2003 , 107, 869-75	16.7	148
79	Vascular progenitors: from biology to treatment. <i>Trends in Cardiovascular Medicine</i> , 2002 , 12, 88-96	6.9	141
78	Differentiation potential of human postnatal mesenchymal stem cells, mesoangioblasts, and multipotent adult progenitor cells reflected in their transcriptome and partially influenced by the culture conditions. <i>Stem Cells</i> , 2011 , 29, 871-82	5.8	140
77	Revascularization of ischemic tissues by PDGF-CC via effects on endothelial cells and their progenitors. <i>Journal of Clinical Investigation</i> , 2005 , 115, 118-27	15.9	127
76	Placental growth factor mediates mesenchymal cell development, cartilage turnover, and bone remodeling during fracture repair. <i>Journal of Clinical Investigation</i> , 2006 , 116, 1230-42	15.9	127
75	Malignant cells fuel tumor growth by educating infiltrating leukocytes to produce the mitogen Gas6. <i>Blood</i> , 2010 , 115, 2264-73	2.2	126
74	Placental growth factor promotes atherosclerotic intimal thickening and macrophage accumulation. <i>Circulation</i> , 2005 , 111, 2828-36	16.7	123

73	VEGF and PlGF: two pleiotropic growth factors with distinct roles in development and homeostasis. <i>Cell and Tissue Research</i> , 2003 , 314, 5-14	4.2	118
72	Comparative transcriptome analysis of embryonic and adult stem cells with extended and limited differentiation capacity. <i>Genome Biology</i> , 2007 , 8, R163	18.3	112
71	Lack of plasminogen activator inhibitor-1 promotes growth and abnormal matrix remodeling of advanced atherosclerotic plaques in apolipoprotein E-deficient mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2002 , 22, 499-505	9.4	109
70	Sequential exposure to cytokines reflecting embryogenesis: the key for in vitro differentiation of adult bone marrow stem cells into functional hepatocyte-like cells. <i>Toxicological Sciences</i> , 2006 , 94, 330-41; discussion 235-9	4.4	100
69	The Emerging Role of the Bone Marrow-Derived Stem Cells in (Therapeutic) Angiogenesis. <i>Thrombosis and Haemostasis</i> , 2001 , 86, 289-297	7	88
68	Soluble VEGF receptor Flt1: the elusive preeclampsia factor discovered?. <i>Journal of Clinical Investigation</i> , 2003 , 111, 600-2	15.9	88
67	Multipotent adult progenitor cells sustain function of ischemic limbs in mice. <i>Journal of Clinical Investigation</i> , 2008 , 118, 505-14	15.9	87
66	In vitro and in vivo arterial differentiation of human multipotent adult progenitor cells. <i>Blood</i> , 2007 , 109, 2634-42	2.2	86
65	Engineering vascularized bone: osteogenic and proangiogenic potential of murine periosteal cells. <i>Stem Cells</i> , 2012 , 30, 2460-71	5.8	75
64	De novo vasculogenesis in the heart. <i>Cardiovascular Research</i> , 2003 , 58, 378-89	9.9	72
63	Loss of placental growth factor protects mice against vascular permeability in pathological conditions. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 295, 428-34	3.4	71
62	Unraveling a novel transcription factor code determining the human arterial-specific endothelial cell signature. <i>Blood</i> , 2013 , 122, 3982-92	2.2	66
61	An SDF-1 trap for myeloid cells stimulates angiogenesis. <i>Cell</i> , 2006 , 124, 18-21	56.2	65
60	Meox2/Tcf15 heterodimers program the heart capillary endothelium for cardiac fatty acid uptake. <i>Circulation</i> , 2015 , 131, 815-26	16.7	64
59	Integration of blood outgrowth endothelial cells in dermal fibroblast sheets promotes full thickness wound healing. <i>Stem Cells</i> , 2010 , 28, 1165-77	5.8	62
58	Cell-based vascularization strategies for skin tissue engineering. <i>Tissue Engineering - Part B: Reviews</i> , 2011 , 17, 13-24	7.9	61
57	Emerging hurdles in stem cell therapy for peripheral vascular disease. <i>Journal of Molecular Medicine</i> , 2009 , 87, 3-16	5.5	59
56	The role of proteinases in angiogenesis, heart development, restenosis, atherosclerosis, myocardial ischemia, and stroke: insights from genetic studies. <i>Current Atherosclerosis Reports</i> , 2000 , 2, 407-16	6	59

55	Multipotent adult progenitor cell transplantation increases vascularity and improves left ventricular function after myocardial infarction. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2007 , 1, 51-9	4.4	57
54	uPA deficiency exacerbates muscular dystrophy in MDX mice. <i>Journal of Cell Biology</i> , 2007 , 178, 1039-51	7.3	57
53	Quantification of miRNA-mRNA interactions. <i>PLoS ONE</i> , 2012 , 7, e30766	3.7	55
52	Activation of human endothelial cells from specific vascular beds induces the release of a FVIII storage pool. <i>Blood</i> , 2010 , 115, 4902-9	2.2	54
51	COUP-TFII orchestrates venous and lymphatic endothelial identity by homo- or hetero-dimerisation with PROX1. <i>Journal of Cell Science</i> , 2013 , 126, 1164-75	5.3	53
50	Genome-wide analysis of DNA methylation and gene expression patterns in purified, uncultured human liver cells and activated hepatic stellate cells. <i>Oncotarget</i> , 2015 , 6, 26729-45	3.3	48
49	Bone marrow transplantation abolishes inhibition of arteriogenesis in placenta growth factor (PLGF) -/- mice. <i>Journal of Molecular and Cellular Cardiology</i> , 2003 , 35, 177-84	5.8	48
48	De novo design of a biologically active amyloid. <i>Science</i> , 2016 , 354,	33.3	44
47	Role of the plasminogen system in basal adhesion formation and carbon dioxide pneumoperitoneum-enhanced adhesion formation after laparoscopic surgery in transgenic mice. <i>Fertility and Sterility</i> , 2003 , 80, 184-92	4.8	44
46	A new strategy to measure intercellular adhesion forces in mature cell-cell contacts. <i>Scientific Reports</i> , 2017 , 7, 46152	4.9	42
45	Transcription factor COUP-TFII is indispensable for venous and lymphatic development in zebrafish and <i>Xenopus laevis</i> . <i>Biochemical and Biophysical Research Communications</i> , 2011 , 410, 121-6	3.4	39
44	Plasminogen activation: a mediator of vascular smooth muscle cell apoptosis in atherosclerotic plaques. <i>Journal of Thrombosis and Haemostasis</i> , 2006 , 4, 664-70	15.4	39
43	Human dental pulp pluripotent-like stem cells promote wound healing and muscle regeneration. <i>Stem Cell Research and Therapy</i> , 2017 , 8, 175	8.3	34
42	Genetic dissection of tumor angiogenesis: are PLGF and VEGFR-1 novel anti-cancer targets?. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2004 , 1654, 79-94	11.2	32
41	Left Ventricular Structure and Function in Relation to Environmental Exposure to Lead and Cadmium. <i>Journal of the American Heart Association</i> , 2017 , 6,	6	28
40	Erythro-myeloid progenitors can differentiate from endothelial cells and modulate embryonic vascular remodeling. <i>Scientific Reports</i> , 2017 , 7, 43817	4.9	28
39	Human blood outgrowth endothelial cells improve islet survival and function when co-transplanted in a mouse model of diabetes. <i>Diabetologia</i> , 2013 , 56, 382-90	10.3	27
38	Platelet endothelial aggregation receptor-1: a novel modifier of neoangiogenesis. <i>Cardiovascular Research</i> , 2015 , 108, 124-38	9.9	25

37	Nonviral transfection strategies for keratinocytes, fibroblasts, and endothelial progenitor cells for ex vivo gene transfer to skin wounds. <i>Tissue Engineering - Part C: Methods</i> , 2010 , 16, 1601-8	2.9	23
36	Left ventricular function in relation to chronic residential air pollution in a general population. <i>European Journal of Preventive Cardiology</i> , 2017 , 24, 1416-1428	3.9	22
35	Increased cardiac myocyte PDE5 levels in human and murine pressure overload hypertrophy contribute to adverse LV remodeling. <i>PLoS ONE</i> , 2013 , 8, e58841	3.7	22
34	MAPC transplantation confers a more durable benefit than AC133+ cell transplantation in severe hind limb ischemia. <i>Cell Transplantation</i> , 2011 , 20, 259-69	4	22
33	Multipotent Adult Progenitor Cells Support Lymphatic Regeneration at Multiple Anatomical Levels during Wound Healing and Lymphedema. <i>Scientific Reports</i> , 2018 , 8, 3852	4.9	20
32	Unraveling the transcriptional determinants of liver sinusoidal endothelial cell specialization. <i>American Journal of Physiology - Renal Physiology</i> , 2020 , 318, G803-G815	5.1	17
31	Angiogenesis and lymphangiogenesis: highlights of the past year. <i>Current Opinion in Hematology</i> , 2004 , 11, 262-71	3.3	17
30	Accessory cells for Ecell transplantation. <i>Diabetes, Obesity and Metabolism</i> , 2016 , 18, 115-24	6.7	16
29	Differentiation of multipotent adult progenitor cells into functional endothelial and smooth muscle cells. <i>Current Protocols in Immunology</i> , 2006 , Chapter 22, Unit 22F.9	4	14
28	Autologous micrograft accelerates endogenous wound healing response through ERK-induced cell migration. <i>Cell Death and Differentiation</i> , 2020 , 27, 1520-1538	12.7	14
27	Plasticity and cardiovascular applications of multipotent adult progenitor cells. <i>Nature Clinical Practice Cardiovascular Medicine</i> , 2007 , 4 Suppl 1, S15-20		13
26	Neovascularization Potential of Blood Outgrowth Endothelial Cells From Patients With Stable Ischemic Heart Failure Is Preserved. <i>Journal of the American Heart Association</i> , 2016 , 5, e002288	6	13
25	Will the real EPC please stand up?. <i>Blood</i> , 2007 , 109, 1795-1796	2.2	12
24	Endothelial Msx1 transduces hemodynamic changes into an arteriogenic remodeling response. <i>Journal of Cell Biology</i> , 2015 , 210, 1239-56	7.3	11
23	Coronary risk in relation to genetic variation in MEOX2 and TCF15 in a Flemish population. <i>BMC Genetics</i> , 2015 , 16, 116	2.6	10
22	A transgenic <i>Xenopus laevis</i> reporter model to study lymphangiogenesis. <i>Biology Open</i> , 2013 , 2, 882-90	2.2	10
21	Deficiency of either P-glycoprotein or breast cancer resistance protein protect against acute kidney injury. <i>Cell Transplantation</i> , 2010 , 19, 1195-208	4	10
20	Genetic studies on the role of proteinases and growth factors in atherosclerosis and aneurysm formation. <i>Annals of the New York Academy of Sciences</i> , 2001 , 947, 124-32; discussion 132-3	6.5	10

19	ECG Voltage in Relation to Peripheral and Central Ambulatory Blood Pressure. <i>American Journal of Hypertension</i> , 2018 , 31, 178-187	2.3	8
18	TGF β -induced Baf60c regulates both smooth muscle cell commitment and quiescence. <i>PLoS ONE</i> , 2012 , 7, e47629	3.7	8
17	Transcriptional characterization of the Notch signaling pathway in rodent multipotent adult progenitor cells. <i>Pathology and Oncology Research</i> , 2007 , 13, 302-10	2.6	7
16	Endothelial Zeb2 preserves the hepatic angioarchitecture and protects against liver fibrosis. <i>Cardiovascular Research</i> , 2021 ,	9.9	7
15	Keeping your vascular integrity: What can we learn from fish?. <i>BioEssays</i> , 2008 , 30, 418-22	4.1	6
14	Therapeutic potential of adult progenitor cells in cardiovascular disease. <i>Expert Opinion on Biological Therapy</i> , 2007 , 7, 1153-65	5.4	6
13	Molecular signature of progenitor cells isolated from young and adult human hearts. <i>Scientific Reports</i> , 2018 , 8, 9266	4.9	6
12	Cardiac Microvascular Endothelial Cells in Pressure Overload-Induced Heart Disease. <i>Circulation: Heart Failure</i> , 2021 , 14, e006979	7.6	6
11	Reversal of hyperglycemia in diabetic mice by a marginal islet mass together with human blood outgrowth endothelial cells is independent of the delivery technique and blood clot-induced processes. <i>Islets</i> , 2013 , 5, 196-200	2	4
10	Prdm16 Supports Arterial Flow Recovery by Maintaining Endothelial Function. <i>Circulation Research</i> , 2021 , 129, 63-77	15.7	4
9	Cell and Gene Transfer Strategies for Vascularization During Skin Wound Healing 2013 , 637-695		3
8	Organ-Specific Endothelial Cell Differentiation and Impact of Microenvironmental Cues on Endothelial Heterogeneity.. <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	3
7	Multipotent adult progenitor cells grown under xenobiotic-free conditions support vascularization during wound healing. <i>Stem Cell Research and Therapy</i> , 2020 , 11, 389	8.3	2
6	The BMP Pathway in Blood Vessel and Lymphatic Vessel Biology. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
5	Multipotent Adult Progenitor Cells 2008 , 258-266		
4	Mouse Models to Study Pro-and Antiangiogenic Potential: Novel Roles for PLGF and FLT1. <i>Basic Science for the Cardiologist</i> , 2004 , 329-347		
3	Formation of Blood and Lymphatic Vessels: Role of Progenitors 2004 , 455-474		
2	Association of colorectal cancer with genetic and epigenetic variation in PEAR1-A population-based cohort study.. <i>PLoS ONE</i> , 2022 , 17, e0266481	3.7	

- 1 Stimulation of the atypical chemokine receptor 3 (ACKR3) by a small-molecule agonist attenuates fibrosis in a preclinical liver but not lung injury model.. *Cellular and Molecular Life Sciences*, **2022**, 79, 293^{10.3}