Aernout Luttun

List of Publications by Year in Descending Order

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	Organ-Specific Endothelial Cell Differentiation and Impact of Microenvironmental Cues on Endothelial Heterogeneity.. *International Journal of Molecular Sciences*, **2022**, 23,	6.3	3
89	Association of colorectal cancer with genetic and epigenetic variation in PEAR1-A population-based cohort study.. *PLoS ONE*, **2022**, 17, e0266481	3.7	
88	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	
87	Endothelial Zeb2 preserves the hepatic angioarchitecture and protects against liver fibrosis. *Cardiovascular Research*, **2021**,	9.9	7
86	Prdm16 Supports Arterial Flow Recovery by Maintaining Endothelial Function. *Circulation Research*, **2021**, 129, 63-77	15.7	4
85	The BMP Pathway in Blood Vessel and Lymphatic Vessel Biology. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	1
84	Cardiac Microvascular Endothelial Cells in Pressure Overload-Induced Heart Disease. *Circulation: Heart Failure*, **2021**, 14, e006979	7.6	6
83	Unraveling the transcriptional determinants of liver sinusoidal endothelial cell specialization. *American Journal of Physiology - Renal Physiology*, **2020**, 318, G803-G815	5.1	17
82	Multipotent adult progenitor cells grown under xenobiotic-free conditions support vascularization during wound healing. *Stem Cell Research and Therapy*, **2020**, 11, 389	8.3	2
81	Autologous micrograft accelerates endogenous wound healing response through ERK-induced cell migration. *Cell Death and Differentiation*, **2020**, 27, 1520-1538	12.7	14
80	Multipotent Adult Progenitor Cells Support Lymphatic Regeneration at Multiple Anatomical Levels during Wound Healing and Lymphedema. *Scientific Reports*, **2018**, 8, 3852	4.9	20
79	ECG Voltage in Relation to Peripheral and Central Ambulatory Blood Pressure. *American Journal of Hypertension*, **2018**, 31, 178-187	2.3	8
78	Molecular signature of progenitor cells isolated from young and adult human hearts. *Scientific Reports*, **2018**, 8, 9266	4.9	6
77	Left Ventricular Structure and Function in Relation to Environmental Exposure to Lead and Cadmium. *Journal of the American Heart Association*, **2017**, 6,	6	28
76	Erythro-myeloid progenitors can differentiate from endothelial cells and modulate embryonic vascular remodeling. *Scientific Reports*, **2017**, 7, 43817	4.9	28
75	A new strategy to measure intercellular adhesion forces in mature cell-cell contacts. *Scientific Reports*, **2017**, 7, 46152	4.9	42
74	The role of fatty acid β-oxidation in lymphangiogenesis. *Nature*, **2017**, 542, 49-54	50.4	167

73	Human dental pulp pluripotent-like stem cells promote wound healing and muscle regeneration. *Stem Cell Research and Therapy*, **2017**, 8, 175	8.3	34
72	Left ventricular function in relation to chronic residential air pollution in a general population. *European Journal of Preventive Cardiology*, **2017**, 24, 1416-1428	3.9	22
71	De novo design of a biologically active amyloid. *Science*, **2016**, 354,	33.3	44
70	Accessory cells for β-cell transplantation. *Diabetes, Obesity and Metabolism*, **2016**, 18, 115-24	6.7	16
69	Neovascularization Potential of Blood Outgrowth Endothelial Cells From Patients With Stable Ischemic Heart Failure Is Preserved. *Journal of the American Heart Association*, **2016**, 5, e002288	6	13
68	Meox2/Tcf15 heterodimers program the heart capillary endothelium for cardiac fatty acid uptake. *Circulation*, **2015**, 131, 815-26	16.7	64
67	Platelet endothelial aggregation receptor-1: a novel modifier of neoangiogenesis. *Cardiovascular Research*, **2015**, 108, 124-38	9.9	25
66	Endothelial Msx1 transduces hemodynamic changes into an arteriogenic remodeling response. *Journal of Cell Biology*, **2015**, 210, 1239-56	7.3	11
65	Coronary risk in relation to genetic variation in MEOX2 and TCF15 in a Flemish population. *BMC Genetics*, **2015**, 16, 116	2.6	10
64	Genome-wide analysis of DNA methylation and gene expression patterns in purified, uncultured human liver cells and activated hepatic stellate cells. *Oncotarget*, **2015**, 6, 26729-45	3.3	48
63	Human blood outgrowth endothelial cells improve islet survival and function when co-transplanted in a mouse model of diabetes. *Diabetologia*, **2013**, 56, 382-90	10.3	27
62	COUP-TFII orchestrates venous and lymphatic endothelial identity by homo- or hetero-dimerisation with PROX1. *Journal of Cell Science*, **2013**, 126, 1164-75	5.3	53
61	Cell and Gene Transfer Strategies for Vascularization During Skin Wound Healing **2013**, 637-695		3
60	A transgenic Xenopus laevis reporter model to study lymphangiogenesis. *Biology Open*, **2013**, 2, 882-90	2.2	10
59	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. *Islets*, **2013**, 5, 196-200	2	4
58	Unraveling a novel transcription factor code determining the human arterial-specific endothelial cell signature. *Blood*, **2013**, 122, 3982-92	2.2	66
57	Increased cardiac myocyte PDE5 levels in human and murine pressure overload hypertrophy contribute to adverse LV remodeling. *PLoS ONE*, **2013**, 8, e58841	3.7	22
56	Engineering vascularized bone: osteogenic and proangiogenic potential of murine periosteal cells. *Stem Cells*, **2012**, 30, 2460-71	5.8	75

55	Quantification of miRNA-mRNA interactions. *PLoS ONE*, **2012**, 7, e30766	3.7	55
54	TGF1-induced Baf60c regulates both smooth muscle cell commitment and quiescence. *PLoS ONE*, **2012**, 7, e47629	3.7	8
53	Cell-based vascularization strategies for skin tissue engineering. *Tissue Engineering - Part B: Reviews* , **2011**, 17, 13-24	7.9	61
52	Transcription factor COUP-TFII is indispensable for venous and lymphatic development in zebrafish and Xenopus laevis. *Biochemical and Biophysical Research Communications*, **2011**, 410, 121-6	3.4	39
51	MAPC transplantation confers a more durable benefit than AC133+ cell transplantation in severe hind limb ischemia. *Cell Transplantation*, **2011**, 20, 259-69	4	22
50	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. *Stem Cells*, **2011**, 29, 871-82	5.8	140
49	Nonviral transfection strategies for keratinocytes, fibroblasts, and endothelial progenitor cells for ex vivo gene transfer to skin wounds. *Tissue Engineering - Part C: Methods*, **2010**, 16, 1601-8	2.9	23
48	Deficiency of either P-glycoprotein or breast cancer resistance protein protect against acute kidney injury. *Cell Transplantation*, **2010**, 19, 1195-208	4	10
47	Malignant cells fuel tumor growth by educating infiltrating leukocytes to produce the mitogen Gas6. *Blood*, **2010**, 115, 2264-73	2.2	126
46	Activation of human endothelial cells from specific vascular beds induces the release of a FVIII storage pool. *Blood*, **2010**, 115, 4902-9	2.2	54
45	Integration of blood outgrowth endothelial cells in dermal fibroblast sheets promotes full thickness wound healing. *Stem Cells*, **2010**, 28, 1165-77	5.8	62
44	Emerging hurdles in stem cell therapy for peripheral vascular disease. *Journal of Molecular Medicine* , **2009**, 87, 3-16	5.5	59
43	Heterozygous deficiency of PHD2 restores tumor oxygenation and inhibits metastasis via endothelial normalization. *Cell*, **2009**, 136, 839-851	56.2	642
42	Multipotent Adult Progenitor Cells **2008**, 258-266		
41	Keeping your vascular integrity: What can we learn from fish?. *BioEssays*, **2008**, 30, 418-22	4.1	6
40	Multipotent adult progenitor cells sustain function of ischemic limbs in mice. *Journal of Clinical Investigation*, **2008**, 118, 505-14	15.9	87
39	Multipotent adult progenitor cell transplantation increases vascularity and improves left ventricular function after myocardial infarction. *Journal of Tissue Engineering and Regenerative Medicine*, **2007**, 1, 51-9	4.4	57
38	Transcriptional characterization of the Notch signaling pathway in rodent multipotent adult progenitor cells. *Pathology and Oncology Research*, **2007**, 13, 302-10	2.6	7

37	Plasticity and cardiovascular applications of multipotent adult progenitor cells. *Nature Clinical Practice Cardiovascular Medicine*, **2007**, 4 Suppl 1, S15-20		13
36	Therapeutic potential of adult progenitor cells in cardiovascular disease. *Expert Opinion on Biological Therapy*, **2007**, 7, 1153-65	5.4	6
35	uPA deficiency exacerbates muscular dystrophy in MDX mice. *Journal of Cell Biology*, **2007**, 178, 1039-51	7.3	57
34	In vitro and in vivo arterial differentiation of human multipotent adult progenitor cells. *Blood*, **2007**, 109, 2634-42	2.2	86
33	Comparative transcriptome analysis of embryonic and adult stem cells with extended and limited differentiation capacity. *Genome Biology*, **2007**, 8, R163	18.3	112
32	Will the real EPC please stand up?. *Blood*, **2007**, 109, 1795-1796	2.2	12
31	Sequential exposure to cytokines reflecting embryogenesis: the key for in vitro differentiation of adult bone marrow stem cells into functional hepatocyte-like cells. *Toxicological Sciences*, **2006**, 94, 330-41; discussion 235-9	4.4	100
30	Differentiation of multipotent adult progenitor cells into functional endothelial and smooth muscle cells. *Current Protocols in Immunology*, **2006**, Chapter 22, Unit 22F.9	4	14
29	Isolation and characterization of kidney-derived stem cells. *Journal of the American Society of Nephrology: JASN*, **2006**, 17, 3028-40	12.7	227
28	An SDF-1 trap for myeloid cells stimulates angiogenesis. *Cell*, **2006**, 124, 18-21	56.2	65
27	Plasminogen activation: a mediator of vascular smooth muscle cell apoptosis in atherosclerotic plaques. *Journal of Thrombosis and Haemostasis*, **2006**, 4, 664-70	15.4	39
26	Placental growth factor mediates mesenchymal cell development, cartilage turnover, and bone remodeling during fracture repair. *Journal of Clinical Investigation*, **2006**, 116, 1230-42	15.9	127
25	Placental growth factor promotes atherosclerotic intimal thickening and macrophage accumulation. *Circulation*, **2005**, 111, 2828-36	16.7	123
24	Revascularization of ischemic tissues by PDGF-CC via effects on endothelial cells and their progenitors. *Journal of Clinical Investigation*, **2005**, 115, 118-27	15.9	127
23	Loss of matrix metalloproteinase-9 or matrix metalloproteinase-12 protects apolipoprotein E-deficient mice against atherosclerotic media destruction but differentially affects plaque growth. *Circulation*, **2004**, 109, 1408-14	16.7	244
22	Genetic dissection of tumor angiogenesis: are PlGF and VEGFR-1 novel anti-cancer targets?. *Biochimica Et Biophysica Acta: Reviews on Cancer*, **2004**, 1654, 79-94	11.2	32
21	Angiogenesis and lymphangiogenesis: highlights of the past year. *Current Opinion in Hematology*, **2004**, 11, 262-71	3.3	17
20	Mouse Models to Study Pro-and Antiangiogenic Potential: Novel Roles for PLGF and FLT1. *Basic Science for the Cardiologist*, **2004**, 329-347		

19	Formation of Blood and Lymphatic Vessels: Role of Progenitors **2004**, 455-474		
18	De novo vasculogenesis in the heart. *Cardiovascular Research*, **2003**, 58, 378-89	9.9	72
17	Placental growth factor, a member of the VEGF family, contributes to the development of choroidal neovascularization. *Investigative Ophthalmology and Visual Science*, **2003**, 44, 3186-93		266
16	VEGF and PlGF: two pleiotropic growth factors with distinct roles in development and homeostasis. *Cell and Tissue Research*, **2003**, 314, 5-14	4.2	118
15	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. *Journal of Thrombosis and Haemostasis*, **2003**, 1, 1356-70	15.4	279
14	Role of the plasminogen system in basal adhesion formation and carbon dioxide pneumoperitoneum-enhanced adhesion formation after laparoscopic surgery in transgenic mice. *Fertility and Sterility*, **2003**, 80, 184-92	4.8	44
13	Bone marrow transplantation abolishes inhibition of arteriogenesis in placenta growth factor (PlGF) -/- mice. *Journal of Molecular and Cellular Cardiology*, **2003**, 35, 177-84	5.8	48
12	Failure of thrombus to resolve in urokinase-type plasminogen activator gene-knockout mice: rescue by normal bone marrow-derived cells. *Circulation*, **2003**, 107, 869-75	16.7	148
11	Soluble VEGF receptor Flt1: the elusive preeclampsia factor discovered?. *Journal of Clinical Investigation*, **2003**, 111, 600-2	15.9	88
10	Vascular progenitors: from biology to treatment. *Trends in Cardiovascular Medicine*, **2002**, 12, 88-96	6.9	141
9	Revascularization of ischemic tissues by PlGF treatment, and inhibition of tumor angiogenesis, arthritis and atherosclerosis by anti-Flt1. *Nature Medicine*, **2002**, 8, 831-40	50.5	916
8	Placental growth factor (PlGF) and its receptor Flt-1 (VEGFR-1): novel therapeutic targets for angiogenic disorders. *Annals of the New York Academy of Sciences*, **2002**, 979, 80-93	6.5	174
7	Lack of plasminogen activator inhibitor-1 promotes growth and abnormal matrix remodeling of advanced atherosclerotic plaques in apolipoprotein E-deficient mice. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2002**, 22, 499-505	9.4	109
6	Loss of placental growth factor protects mice against vascular permeability in pathological conditions. *Biochemical and Biophysical Research Communications*, **2002**, 295, 428-34	3.4	71
5	Genetic studies on the role of proteinases and growth factors in atherosclerosis and aneurysm formation. *Annals of the New York Academy of Sciences*, **2001**, 947, 124-32; discussion 132-3	6.5	10
4	The Emerging Role of the Bone Marrow-Derived Stem Cells in (Therapeutic) Angiogenesis. *Thrombosis and Haemostasis*, **2001**, 86, 289-297	7	88
3	Synergism between vascular endothelial growth factor and placental growth factor contributes to angiogenesis and plasma extravasation in pathological conditions. *Nature Medicine*, **2001**, 7, 575-83	50.5	1346
2	The role of proteinases in angiogenesis, heart development, restenosis, atherosclerosis, myocardial ischemia, and stroke: insights from genetic studies. *Current Atherosclerosis Reports*, **2000**, 2, 407-16	6	59

1	Inhibition of plasminogen activators or matrix metalloproteinases prevents cardiac rupture but impairs therapeutic angiogenesis and causes cardiac failure. *Nature Medicine*, **1999**, 5, 1135-42	50.5	677