Bart De Geest

List of Publications by Citations

72 papers	2,049 citations	26 h-index	42 g-index
79 ext. papers	2,284 ext. citations	5.8 avg, IF	4.46 L-index

#	Paper	IF	Citations
72	Adenovirus-mediated gene transfer of human platelet-activating factor-acetylhydrolase prevents injury-induced neointima formation and reduces spontaneous atherosclerosis in apolipoprotein E-deficient mice. *Circulation*, **2001**, 103, 2495-500	16.7	186
71	HDL-associated PAF-AH reduces endothelial adhesiveness in apoE-/- mice. *FASEB Journal*, **2000**, 14, 2032-39	6.9	122
70	The role of liver sinusoidal cells in hepatocyte-directed gene transfer. *American Journal of Pathology*, **2010**, 176, 14-21	5.8	93
69	Human apolipoprotein A-I gene transfer reduces the development of experimental diabetic cardiomyopathy. *Circulation*, **2008**, 117, 1563-73	16.7	88
68	Human ApoA-I transfer attenuates transplant arteriosclerosis via enhanced incorporation of bone marrow-derived endothelial progenitor cells. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2008**, 28, 278-83	9.4	76
67	Vascular-protective effects of high-density lipoprotein include the downregulation of the angiotensin II type 1 receptor. *Hypertension*, **2009**, 53, 682-7	8.5	70
66	Critical role of scavenger receptor-BI-expressing bone marrow-derived endothelial progenitor cells in the attenuation of allograft vasculopathy after human apo A-I transfer. *Blood*, **2009**, 113, 755-64	2.2	69
65	Fixation methods for electron microscopy of human and other liver. *World Journal of Gastroenterology*, **2010**, 16, 2851-66	5.6	66
64	Effects of adenovirus-mediated human apo A-I gene transfer on neointima formation after endothelial denudation in apo E-deficient mice. *Circulation*, **1997**, 96, 4349-56	16.7	65
63	Elimination of innate immune responses and liver inflammation by PEGylation of adenoviral vectors and methylprednisolone. *Human Gene Therapy*, **2005**, 16, 1439-51	4.8	59
62	Impact of HDL on adipose tissue metabolism and adiponectin expression. *Atherosclerosis*, **2010**, 210, 438-44	3.1	58
61	Regression and stabilization of advanced murine atherosclerotic lesions: a comparison of LDL lowering and HDL raising gene transfer strategies. *Journal of Molecular Medicine*, **2011**, 89, 555-67	5.5	53
60	Construction of an oncolytic herpes simplex virus that precisely targets hepatocellular carcinoma cells. *Molecular Therapy*, **2012**, 20, 339-46	11.7	44
59	Circulating apoptotic endothelial cells and apoptotic endothelial microparticles independently predict the presence of cardiac allograft vasculopathy. *Journal of the American College of Cardiology*, **2012**, 60, 324-31	15.1	41
58	Sustained expression of human apolipoprotein A-I after adenoviral gene transfer in C57BL/6 mice: role of apolipoprotein A-I promoter, apolipoprotein A-I introns, and human apolipoprotein E enhancer. *Human Gene Therapy*, **2000**, 11, 101-12	4.8	41
57	Effect of overexpression of human apo A-I in C57BL/6 and C57BL/6 apo E-deficient mice on 2 lipoprotein-associated enzymes, platelet-activating factor acetylhydrolase and paraoxonase. Comparison of adenovirus-mediated human apo A-I gene transfer and human apo A-I transgenesis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2000**, 20, E68-75	9.4	41
56	Effect of promoters and enhancers on expression, transgene DNA persistence, and hepatotoxicity after adenoviral gene transfer of human apolipoprotein A-I. *Human Gene Therapy*, **2002**, 13, 829-40	4.8	40

55	Adenoviral gene transfer of ABIN-1 protects mice from TNF/galactosamine-induced acute liver failure and lethality. *Hepatology*, **2005**, 42, 381-9	11.2	38
54	Endothelium-enriched microRNAs as diagnostic biomarkers for cardiac allograft vasculopathy. *Journal of Heart and Lung Transplantation*, **2015**, 34, 1376-84	5.8	37
53	Lipid emulsions potently increase transgene expression in hepatocytes after adenoviral transfer. *Molecular Therapy*, **2006**, 13, 98-107	11.7	35
52	Therapeutic potential of HDL in cardioprotection and tissue repair. *Handbook of Experimental Pharmacology*, **2015**, 224, 527-65	3.2	31
51	Plasminogen activation by staphylokinase enhances local spreading of S. aureus in skin infections. *BMC Microbiology*, **2014**, 14, 310	4.5	29
50	Down-regulation of endothelial TLR4 signalling after apo A-I gene transfer contributes to improved survival in an experimental model of lipopolysaccharide-induced inflammation. *Journal of Molecular Medicine*, **2011**, 89, 151-60	5.5	28
49	Role of the Arg123-Tyr166 paired helix of apolipoprotein A-I in lecithin:cholesterol acyltransferase activation. *Journal of Biological Chemistry*, **1997**, 272, 15967-72	5.4	28
48	Selective homocysteine-lowering gene transfer attenuates pressure overload-induced cardiomyopathy via reduced oxidative stress. *Journal of Molecular Medicine*, **2015**, 93, 609-18	5.5	27
47	Wild-type apo A-I and apo A-I(Milano) gene transfer reduce native and transplant arteriosclerosis to a similar extent. *Journal of Molecular Medicine*, **2009**, 87, 287-97	5.5	27
46	Gene therapy for familial hypercholesterolemia. *Current Pharmaceutical Design*, **2011**, 17, 2575-91	3.3	26
45	Adenoviral low density lipoprotein receptor attenuates progression of atherosclerosis and decreases tissue cholesterol levels in a murine model of familial hypercholesterolemia. *Atherosclerosis*, **2008**, 201, 289-97	3.1	26
44	The liver as a target organ for gene therapy: state of the art, challenges, and future perspectives. *Pharmaceuticals*, **2012**, 5, 1372-92	5.2	25
43	Topical HDL administration reduces vein graft atherosclerosis in apo E deficient mice. *Atherosclerosis*, **2011**, 214, 271-8	3.1	24
42	Lipid lowering and HDL raising gene transfer increase endothelial progenitor cells, enhance myocardial vascularity, and improve diastolic function. *PLoS ONE*, **2012**, 7, e46849	3.7	22
41	An efficient and safe herpes simplex virus type 1 amplicon vector for transcriptionally targeted therapy of human hepatocellular carcinomas. *Molecular Therapy*, **2007**, 15, 1129-36	11.7	22
40	Successful treatment of established heart failure in mice with recombinant HDL (Milano). *British Journal of Pharmacology*, **2018**, 175, 4167-4182	8.6	21
39	Permanent ligation of the left anterior descending coronary artery in mice: a model of post-myocardial infarction remodelling and heart failure. *Journal of Visualized Experiments*, **2014**,	1.6	21
38	Overexpression of tissue inhibitor of matrix metalloproteinases-1 (TIMP-1) in mice does not affect adipogenesis or adipose tissue development. *Thrombosis and Haemostasis*, **2006**, 95, 1019-24	7	21

37	Selective HDL-Raising Human Apo A-I Gene Therapy Counteracts Cardiac Hypertrophy, Reduces Myocardial Fibrosis, and Improves Cardiac Function in Mice with Chronic Pressure Overload. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	20
36	Effective Treatment of Diabetic Cardiomyopathy and Heart Failure with Reconstituted HDL (Milano) in Mice. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	17
35	Apolipoprotein A-I gene transfer exerts immunomodulatory effects and reduces vascular inflammation and fibrosis in ob/ob mice. *Journal of Inflammation*, **2016**, 13, 25	6.7	17
34	Coconut Oil Aggravates Pressure Overload-Induced Cardiomyopathy without Inducing Obesity, Systemic Insulin Resistance, or Cardiac Steatosis. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	17
33	The Impact of Lipoproteins on Wound Healing: Topical HDL Therapy Corrects Delayed Wound Healing in Apolipoprotein E Deficient Mice. *Pharmaceuticals*, **2014**, 7, 419-32	5.2	17
32	Hepatocyte-specific ABCA1 transfer increases HDL cholesterol but impairs HDL function and accelerates atherosclerosis. *Cardiovascular Research*, **2010**, 88, 376-85	9.9	17
31	Gene therapy to improve high-density lipoprotein metabolism and function. *Current Pharmaceutical Design*, **2010**, 16, 1531-44	3.3	17
30	Species differences in hepatocyte-directed gene transfer: implications for clinical translation. *Current Gene Therapy*, **2009**, 9, 83-90	4.3	16
29	Hepatocyte-Specific SR-BI Gene Transfer Corrects Cardiac Dysfunction in Scarb1-Deficient Mice and Improves Pressure Overload-Induced Cardiomyopathy. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2018**, 38, 2028-2040	9.4	15
28	Effect of plasminogen activator inhibitor-1 on adipogenesis in vivo. *Thrombosis and Haemostasis*, **2009**, 101, 388-393	7	14
27	Reconstituted HDL (Milano) Treatment Efficaciously Reverses Heart Failure with Preserved Ejection Fraction in Mice. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	14
26	Enhanced antitumor efficacy of a vascular disrupting agent combined with an antiangiogenic in a rat liver tumor model evaluated by multiparametric MRI. *PLoS ONE*, **2012**, 7, e41140	3.7	13
25	Hepatocyte-specific Dyrk1a gene transfer rescues plasma apolipoprotein A-I levels and aortic Akt/GSK3 pathways in hyperhomocysteinemic mice. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2013**, 1832, 718-28	6.9	12
24	Impaired cholesterol efflux capacity and vasculoprotective function of high-density lipoprotein in heart transplant recipients. *Journal of Heart and Lung Transplantation*, **2014**, 33, 499-506	5.8	11
23	The Arg123-Tyr166 central domain of human ApoAI is critical for lecithin:cholesterol acyltransferase-induced hyperalphalipoproteinemia and HDL remodeling in transgenic mice. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2000**, 20, 459-66	9.4	11
22	Cholesterol-Lowering Gene Therapy Counteracts the Development of Non-ischemic Cardiomyopathy in Mice. *Molecular Therapy*, **2017**, 25, 2513-2525	11.7	10
21	Correction of endothelial dysfunction after selective homocysteine lowering gene therapy reduces arterial thrombogenicity but has no effect on atherogenesis. *Journal of Molecular Medicine*, **2011**, 89, 1051-8	5.5	10
20	Blood vessel density in de novo formed adipose tissue is decreased upon overexpression of TIMP-1. *Obesity*, **2010**, 18, 638-40	8	10

19	The relative atherogenicity of VLDL and LDL is dependent on the topographic site. *Journal of Lipid Research*, **2010**, 51, 1478-85	6.3	10
18	Administration of apo A-I (Milano) nanoparticles reverses pathological remodelling, cardiac dysfunction, and heart failure in a murine model of HFpEF associated with hypertension. *Scientific Reports*, **2020**, 10, 8382	4.9	8
17	Cholesterol lowering attenuates pressure overload-induced heart failure in mice with mild hypercholesterolemia. *Aging*, **2019**, 11, 6872-6891	5.6	7
16	Selective homocysteine lowering gene transfer improves infarct healing, attenuates remodelling, and enhances diastolic function after myocardial infarction in mice. *PLoS ONE*, **2013**, 8, e63710	3.7	6
15	Cholesterol-Lowering Gene Therapy Prevents Heart Failure with Preserved Ejection Fraction in Obese Type 2 Diabetic Mice. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	5
14	The origin of intimal smooth muscle cells: are we on a steady road back to the past?. *Cardiovascular Research*, **2009**, 81, 7-8	9.9	5
13	Role of lipids and lipoproteins in myocardial biology and in the development of heart failure. *Clinical Lipidology*, **2015**, 10, 329-342		4
12	Correlation of atherosclerosis between different topographic sites is highly dependent on the type of hyperlipidemia. *Heart and Vessels*, **2012**, 27, 231-4	2.1	4
11	The diameter of liver sinusoidal fenestrae is not a major determinant of lipoprotein levels and atherosclerosis in cholesterol-fed rabbits. *Cardiovascular Pathology*, **2011**, 20, 44-50	3.8	4
10	Gene transfer for inherited metabolic disorders of the liver: immunological challenges. *Current Pharmaceutical Design*, **2011**, 17, 2542-9	3.3	4
9	Corrective effects of hepatotoxicity by hepatic Dyrk1a gene delivery in mice with intermediate hyperhomocysteinemia. *Molecular Genetics and Metabolism Reports*, **2015**, 2, 51-60	1.8	3
8	High-Density Lipoprotein-Targeted Therapies for Heart Failure. *Biomedicines*, **2020**, 8,	4.8	3
7	Markers of endothelial injury and platelet microparticles are distinct in patients with stable native coronary artery disease and with cardiac allograft vasculopathy. *International Journal of Cardiology*, **2015**, 179, 331-3	3.2	2
6	Early effect of a single intravenous injection of ethanol on hepatic sinusoidal endothelial fenestrae in rabbits. *Comparative Hepatology*, **2009**, 8, 4		2
5	Why the diameter of sinusoidal fenestrae unlikely matters for lipoprotein metabolism and atherosclerosis susceptibility. *Cardiovascular Pathology*, **2011**, 20, 193-194	3.8	1
4	Mesangial matrix expansion in a novel mouse model of diabetic kidney disease associated with the metabolic syndrome. *Journal of Nephropathology*, **2021**, 10, e17-e17	0.6	1
3	Doxorubicin-induced cardiomyopathy: TERT gets to the heart of the matter. *Molecular Therapy*, **2021**, 29, 1363-1365	11.7	1
2	Role of high-density lipoproteins in cardioprotection and in reverse remodeling: Therapeutic implications. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2021**, 1866, 159022	5	1

1 Elimination of Innate Immune Responses and Liver Inflammation by PEGylation of Adenoviral Vectors and Methylprednisolone. *Human Gene Therapy*, **2005**, 051102061744001 4.8