Jacob F Bentzon

List of Publications by Year
in descending order

86 papers	6,886 citations	126708 33 h-index	91712 69 g-index
90 all docs	90 docs citations	90 times ranked	10037 citing authors

#	Article	IF	Citations
1	Mechanisms of Plaque Formation and Rupture. Circulation Research, 2014, 114, 1852-1866.	2.0	1,560
2	Update on acute coronary syndromes: the pathologists' view. European Heart Journal, 2013, 34, 719-728.	1.0	849
3	Low-density lipoproteins cause atherosclerotic cardiovascular disease: pathophysiological, genetic, and therapeutic insights: a consensus statement from the European Atherosclerosis Society Consensus Panel. European Heart Journal, 2020, 41, 2313-2330.	1.0	776
4	Induction of Atherosclerosis in Mice and Hamsters Without Germline Genetic Engineering. Circulation Research, 2014, 114, 1684-1689.	2.0	223
5	Smooth Muscle Cells in Atherosclerosis Originate From the Local Vessel Wall and Not Circulating Progenitor Cells in ApoE Knockout Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2006, 26, 2696-2702.	1.1	217
6	Dietary Supplementation With Methionine and Homocysteine Promotes Early Atherosclerosis but Not Plaque Rupture in ApoE-Deficient Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2001, 21, 1470-1476.	1.1	190
7	Familial Hypercholesterolemia and Atherosclerosis in Cloned Minipigs Created by DNA Transposition of a Human <i>PCSK9</i> Gain-of-Function Mutant. Science Translational Medicine, 2013, 5, 166ra1.	5.8	170
8	The Hypercholesterolemia-Risk Gene SORT1 Facilitates PCSK9 Secretion. Cell Metabolism, 2014, 19, 310-318.	7.2	144
9	Stabilisation of atherosclerotic plaques. Thrombosis and Haemostasis, 2011, 106, 1-19.	1.8	139
10	Chronic Renal Failure Accelerates Atherogenesis in Apolipoprotein Eâ€“Deficient Mice. Journal of the American Society of Nephrology: JASN, 2003, 14, 2466-2474.	3.0	138
11	From vulnerable plaque to atherothrombosis. Journal of Internal Medicine, 2008, 263, 506-516.	2.7	125
12	Demonstration of the presence of independent pre-osteoblastic and pre-adipocytic cell populations in bone marrow-derived mesenchymal stem cells. Bone, 2008, 43, 32-39.	1.4	125
13	Atherosclerotic lesions in mouse and man: is it the same disease?. Current Opinion in Lipidology, 2010, 21, 434-440.	1.2	124
14	Cardiac magnetic resonance and electroanatomical mapping of acute and chronic atrial ablation injury: a histological validation study. European Heart Journal, 2014, 35, 1486-1495.	1.0	123
15	Macrophages are associated with lipid-rich carotid artery plaques, echolucency on B-mode imaging, and elevated plasma lipid levels. Journal of Vascular Surgery, 2002, 35, 137-145.	0.6	122
16	Smooth Muscle Cells Healing Atherosclerotic Plaque Disruptions Are of Local, Not Blood, Origin in Apolipoprotein E Knockout Mice. Circulation, 2007, 116, 2053-2061.	1.6	116
17	Diverse cellular architecture of atherosclerotic plaque derives from clonal expansion of a few medial SMCs. JCI Insight, 2017, 2, .	2.3	108
18	Macrophages are associated with lipid-rich carotid artery plaques, echolucency on B-mode imaging, and elevated plasma lipid levels. Journal of Vascular Surgery, 2002, 35, 137-45.	0.6	107

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19	Circulating Endothelial Progenitor Cells Do Not Contribute to Plaque Endothelium in Murine Atherosclerosis. Circulation, 2010, 121, 898-905.	1.6	103
20	Vascular Smooth Muscleâ€“Specific Progerin Expression Accelerates Atherosclerosis and Death in a Mouse Model of Hutchinson-Gilford Progeria Syndrome. Circulation, 2018, 138, 266-282.	1.6	102
21	Stabilization of atherosclerotic plaques: an update. European Heart Journal, 2013, 34, 3251-3258.	1.0	101
22	Targeting sortilin in immune cells reduces proinflammatory cytokines and atherosclerosis. Journal of Clinical Investigation, 2014, 124, 5317-5322.	3.9	100
23	Arterial Sca1+ Vascular Stem Cells Generate De Novo Smooth Muscle for Artery Repair and Regeneration. Cell Stem Cell, 2020, 26, 81-96.e4.	5.2	98
24	Tissue distribution and engraftment of human mesenchymal stem cells immortalized by human telomerase reverse transcriptase gene. Biochemical and Biophysical Research Communications, 2005, 330, 633-640.	1.0	92
25	Circulating endothelial progenitor cells do not contribute to regeneration of endothelium after murine arterial injury. Cardiovascular Research, 2012, 93, 223-231.	1.8	89
26	Red Wine Does Not Reduce Mature Atherosclerosis in Apolipoprotein Eâ€“Deficient Mice. Circulation, 2001, 103, 1681-1687.	1.6	62
27	Inducing Persistent Flow Disturbances Accelerates Atherogenesis and Promotes Thin Cap Fibroatheroma Development in <i>D374Y</i> -PCSK9 Hypercholesterolemic Minipigs. Circulation, 2015, 132, 1003-1012.	1.6	58
28	Lineage tracking of origin and fate of smooth muscle cells in atherosclerosis. Cardiovascular Research, 2018, 114, 492-500.	1.8	45
29	Vimentin deficiency in macrophages induces increased oxidative stress and vascular inflammation but attenuates atherosclerosis in mice. Scientific Reports, 2018, 8, 16973.	1.6	43
30	Na + , HCO 3 Ââˆ’ -cotransporter NBCn1 increases pH i gradients, filopodia, and migration of smooth muscle cells and promotes arterial remodelling. Cardiovascular Research, 2016, 111, 227-239.	1.8	41
31	Flanking Recipient Vasculature, Not Circulating Progenitor Cells, Contributes to Endothelium and Smooth Muscle in Murine Allograft Vasculopathy. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 808-813.	1.1	38
32	Expansive Remodeling Is a Response of the Plaque-Related Vessel Wall in Aortic Roots of ApoE-Deficient Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2003, 23, 257-262.	1.1	37
33	Diabetes with poor glycaemic control does not promote atherosclerosis in genetically modified hypercholesterolaemic minipigs. Diabetologia, 2015, 58, 1926-1936.	2.9	36
34	Histone deacetylase 9 promotes endothelial-mesenchymal transition and an unfavorable atherosclerotic plaque phenotype. Journal of Clinical Investigation, 2021, 131, .	3.9	36
35	Circulating smooth muscle progenitor cells in atherosclerosis and plaque rupture: Current perspective and methods of analysis. Vascular Pharmacology, 2010, 52, 11-20.	1.0	31
36	Arterial endothelial cells: still the craftsmen of regenerated endothelium. Cardiovascular Research, 2012, 95, 281-289.	1.8	31

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37	Humoral Immune Response Against Defined Oxidized Low-Density Lipoprotein Antigens Reflects Structure and Disease Activity of Carotid Plaques. Arteriosclerosis, Thrombosis, and Vascular Biology, 2005, 25, 1250-1255.	1.1	29
38	Size of myocardial infarction induced by ischaemia/reperfusion is unaltered in rats with metabolic syndrome. Clinical Science, 2006, 110, 665-671.	1.8	28
39	The Phenotypic Responses of Vascular Smooth Muscle Cells Exposed to Mechanical Cues. Cells, 2021, 10, 2209.	1.8	27
40	18Fluorodeoxyglucose Accumulation in Arterial Tissues Determined by PETÂSignalÂAnalysis. Journal of the American College of Cardiology, 2019, 74, 1220-1232.	1.2	26
41	Disturbed Laminar Blood Flow Vastly Augments Lipoprotein Retention in the Artery Wall. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 1928-1935.	1.1	23
42	Stanniocalcin-2 overexpression reduces atherosclerosis in hypercholesterolemic mice. Atherosclerosis, 2016, 248, 36-43.	0.4	23
43	Treatment with a human recombinant monoclonal IgG antibody against oxidized LDL in atherosclerosis-prone pigs reduces cathepsin S in coronary lesions. International Journal of Cardiology, 2016, 215, 506-515.	0.8	20
44	Local Pressure Drives Low-Density Lipoprotein Accumulation and Coronary Atherosclerosis in Hypertensive Minipigs. Journal of the American College of Cardiology, 2021, 77, 575-589.	1.2	19
45	Fibrous Caps in Atherosclerosis Form by Notch-Dependent Mechanisms Common to Arterial Media Development. Arteriosclerosis, Thrombosis, and Vascular Biology, 2021, 41, e427-e439.	1.1	18
46	Whole body and hematopoietic ADAM8 deficiency does not influence advanced atherosclerotic lesion development, despite its association with human plaque progression. Scientific Reports, 2017, 7, 11670.	1.6	13
47	New 3-Dimensional Volumetric Ultrasound Method for Accurate Quantification of Atherosclerotic PlaqueÂVolume. JACC: Cardiovascular Imaging, 2022, 15, 1124-1135.	2.3	13
48	Diet-Induced Abdominal Obesity, Metabolic Changes, and Atherosclerosis in Hypercholesterolemic Minipigs. Journal of Diabetes Research, 2018, 2018, 1-12.	1.0	12
49	HAP-Multitag, a PET and Positive MRI Contrast Nanotracer for the Longitudinal Characterization of Vascular Calcifications in Atherosclerosis. ACS Applied Materials & Interfaces, 2021, 13, 45279-45290.	4.0	12
50	Apolipoprotein E Deficiency Increases Remnant Lipoproteins and Accelerates Progressive Atherosclerosis, But NotÂXanthoma Formation, in Gene-Modified Minipigs. JACC Basic To Translational Science, 2017, 2, 591-600.	1.9	11
51	Genetic Susceptibility of the Arterial Wall Is an Important Determinant of Atherosclerosis in C57BL/6 and FVB/N Mouse Strains. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 1814-1820.	1.1	10
52	Targeting Inflammation in Atherosclerosis âˆ—. Journal of the American College of Cardiology, 2016, 68, 2794-2796.	1.2	10
53	Type 1 diabetes increases retention of low-density lipoprotein in the atherosclerosis-prone area of the murine aorta. Atherosclerosis, 2017, 263, 7-14.	0.4	9
54	Plaque Erosion. Circulation Research, 2017, 121, 8-10.	2.0	9

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55	Increased retention of LDL from type 1 diabetic patients in atherosclerosis-prone areas of the murine arterial wall. Atherosclerosis, 2019, 286, 156-162.	0.4	9
56	Differences in Hypercholesterolemia and Atherogenesis Induced by Common Androgen Deprivation Therapies in Male Mice. Journal of the American Heart Association, 2016, 5, .	1.6	8
57	Relaxation of porcine retinal arterioles exposed to hypercholesterolemia inÂvivo is modified by hepatic LDL-receptor deficiency and diabetes mellitus. Experimental Eye Research, 2013, 115, 79-86.	1.2	7
58	High-fructose feeding does not induce steatosis or non-alcoholic fatty liver disease in pigs. Scientific Reports, 2021, 11, 2807.	1.6	7
59	Evaluation of porcine stem cell competence for somatic cell nuclear transfer and production of cloned animals. Animal Reproduction Science, 2017, 178, 40-49.	0.5	6
60	Analysis of ¹⁸ F-Sodium Fluoride Positron Emission Tomography Signal Sources in Atherosclerotic Minipigs Shows Specific Binding of ¹⁸ F-Sodium Fluoride to Plaque Calcifications. Arteriosclerosis, Thrombosis, and Vascular Biology, 2021, 41, e480-e490.	1.1	6
61	Plaque burden influences accurate classification of fibrous cap atheroma by in vivo optical coherence tomography in a porcine model of advanced coronary atherosclerosis. EuroIntervention, 2018, 14, 1129-1135.	1.4	5
62	Genetic Analysis of Ligation-Induced Neointima Formation in an F2 Intercross of C57BL/6 and FVB/N Inbred Mouse Strains. PLoS ONE, 2015, 10, e0121899.	1.1	4
63	Sortilin and atherosclerosis. Oncotarget, 2015, 6, 19352-19353.	0.8	4
64	Atherosclerosis Induced by Adeno-Associated Virus Encoding Gain-of-Function PCSK9. Methods in Molecular Biology, 2022, 2419, 461-473.	0.4	4
65	Pathogenesis of Stable and Acute Coronary Syndromes. , 2011, , 42-52.		3
66	Atherosclerosis, Vulnerable Plaques, and Acute Coronary Syndromes. , 2013, , 530-539.		2
67	Effects of castration on atherosclerosis in Yucatan minipigs with genetic hypercholesterolemia. PLoS ONE, 2020, 15, e0234131.	1.1	2
68	Pathology of Vulnerability Caused by High-Risk (Vulnerable) Arteries and Plaques. , 2011, , 39-51.		2
69	Tissue volume and activity mapping using total intensity projection of PET/CT images. American Journal of Nuclear Medicine and Molecular Imaging, 2019, 9, 1-11.	1.0	2
70	Prior renovascular hypertension does not predispose to atherosclerosis in mice. Atherosclerosis, 2016, 249, 157-163.	0.4	1
71	Vimentin deficiency in macrophages induces CD36-mediated inflammation. Atherosclerosis, 2017, 263, e87-e88.	0.4	1
72	Tapping Into the Strengths of Diversity Among Atherosclerotic Pigs. Arteriosclerosis, Thrombosis, and Vascular Biology, 2019, 39, 2203-2204.	1.1	1

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73	Response to Letter Regarding Article, â€œSmooth Muscle Cells Healing Atherosclerotic Plaque Disruptions Are of Local, Not Blood, Origin in Apolipoprotein E Knockout Miceâ€• Circulation, 2008, 117, .	1.6	0
74	Response to Letters Regarding Article, â€œCirculating Endothelial Progenitor Cells Do Not Contribute to Plaque Endothelium in Murine Atherosclerosisâ€• Circulation, 2010, 122, .	1.6	0
75	Myocardial and Peripheral Ischemia Causes an Increase in Circulating Pregnancy-Associated Plasma Protein-A in Non-atherosclerotic, Non-heparinized Pigs. Journal of Cardiovascular Translational Research, 2015, 8, 528-535.	1.1	0
76	REPLY: Treatment with oxLDL antibody reduces cathepsin S expression in atherosclerosis via down-regulating ADAR1-mediated RNA editing. International Journal of Cardiology, 2017, 229, 8.	0.8	0
77	COMPARISON OF IN VIVO OPTICAL COHERENCE TOMOGRAPHY DERIVED PLAQUE PHENOTYPE AND BURDEN WITH HISTOLOGY IN A PORCINE MODEL OF ADVANCED CORONARY ATHEROSCLEROSIS. Journal of the American College of Cardiology, 2017, 69, 1072.	1.2	0
78	Reply to â€œBioinformatics analysis in type 1 diabetes increases retention of low-density lipoprotein in the atherosclerosis-prone area of the murine aortaâ€• Atherosclerosis, 2017, 263, 428-429.	0.4	0
79	Reply. Journal of the American College of Cardiology, 2021, 77, 2620-2621.	1.2	0
80	Membrane acidâ€base transporters modulate artery structure. FASEB Journal, 2012, 26, .	0.2	0
81	Natural history of atherosclerosis: the first shall be the worst. EuroIntervention, 2016, 11, e1574-e1575.	1.4	0
82	Effects of castration on atherosclerosis in Yucatan minipigs with genetic hypercholesterolemia. , 2020, 15, e0234131.		0
83	Effects of castration on atherosclerosis in Yucatan minipigs with genetic hypercholesterolemia. , 2020, 15, e0234131.		0
84	Effects of castration on atherosclerosis in Yucatan minipigs with genetic hypercholesterolemia. , 2020, 15, e0234131.		0
85	Effects of castration on atherosclerosis in Yucatan minipigs with genetic hypercholesterolemia. , 2020, 15, e0234131.		0
86	Single-Cell Behavior in Closure of the Arterial Duct. Arteriosclerosis, Thrombosis, and Vascular Biology, 2022, , 101161ATVBAHA122317756.	1.1	0