Guido R Y De Meyer

List of Publications by Year
in descending order

251	16,795	25034 57	16650 123
papers	citations	h-index	g-index

254	254	254	26898
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
2	Apoptosis in Human Atherosclerosis and Restenosis. Circulation, 1995, 91, 2703-2711.	1.6	519
3	Caspase-3 Deletion Promotes Necrosis in Atherosclerotic Plaques of ApoE Knockout Mice. Oxidative Medicine and Cellular Longevity, 2016, 2016, 1-11.	4.0	428
4	Phagocytosis of Apoptotic Cells by Macrophages Is Impaired in Atherosclerosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2005, 25, 1256-1261.	2.4	407
5	Apoptosis and Related Proteins in Different Stages of Human Atherosclerotic Plaques. Circulation, 1998, 97, 2307-2315.	1.6	399
6	Elevated Levels of Oxidative DNA Damage and DNA Repair Enzymes in Human Atherosclerotic Plaques. Circulation, 2002, 106, 927-932.	1.6	397
7	Animal models of atherosclerosis. European Journal of Pharmacology, 2017, 816, 3-13.	3.5	385
8	Vascular smooth muscle cell death, autophagy and senescence in atherosclerosis. Cardiovascular Research, 2018, 114, 622-634.	3.8	356
9	Autophagy in Atherosclerosis. Circulation Research, 2009, 104, 304-317.	4.5	333
10	Autophagy in Vascular Disease. Circulation Research, 2015, 116, 468-479.	4.5	236
11	Defective autophagy in vascular smooth muscle cells accelerates senescence and promotes neointima formation and atherogenesis. Autophagy, 2015, 11, 2014-2032.	9.1	229
12	Phagocytosis in atherosclerosis: Molecular mechanisms and implications for plaque progression and stability. Cardiovascular Research, 2007, 73, 470-480.	3.8	228
13	Phagocytosis and Macrophage Activation Associated With Hemorrhagic Microvessels in Human Atherosclerosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2003, 23, 440-446.	2.4	198
14	Selective Clearance of Macrophages in Atherosclerotic Plaques by Autophagy. Journal of the American College of Cardiology, 2007, 49, 706-715.	2.8	181
15	Cell Composition, Replication, and Apoptosis in Atherosclerotic Plaques After 6 Months of Cholesterol Withdrawal. Circulation Research, 1998, 83, 378-387.	4.5	169
16	Oxidative DNA Damage and Repair in Experimental Atherosclerosis Are Reversed by Dietary Lipid Lowering. Circulation Research, 2001, 88, 733-739.	4.5	163
17	mTOR inhibition: A promising strategy for stabilization of atherosclerotic plaques. Atherosclerosis, 2014, 233, 601-607.	0.8	162
18	Autophagy in disease: a double-edged sword with therapeutic potential. Clinical Science, 2009, 116, 697-712.	4.3	161

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19	Autophagy in Atherosclerosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 2787-2791.	2.4	160
20	Macrophage Death as a Pharmacological Target in Atherosclerosis. Frontiers in Pharmacology, 2019, 10, 306.	3.5	152
21	Vascular endothelial dysfunction. Progress in Cardiovascular Diseases, 1997, 39, 325-342.	3.1	150
22	Autophagy in the cardiovascular system. Biochimica Et Biophysica Acta - Molecular Cell Research, 2009, 1793, 1485-1495.	4.1	148
23	Autophagy in cardiovascular disease. Trends in Molecular Medicine, 2007, 13, 482-491.	6.7	144
24	Elastin fragmentation in atherosclerotic mice leads to intraplaque neovascularization, plaque rupture, myocardial infarction, stroke, and sudden death. European Heart Journal, 2015, 36, 1049-1058.	2.2	139
25	Platelet Phagocytosis and Processing of Î²-Amyloid Precursor Protein as a Mechanism of Macrophage Activation in Atherosclerosis. Circulation Research, 2002, 90, 1197-1204.	4.5	131
26	In Vivo Temperature Heterogeneity of Atherosclerotic Plaques Is Determined by Plaque Composition. Circulation, 2002, 105, 1596-1601.	1.6	129
27	In Situ Detection of Starvation-induced Autophagy. Journal of Histochemistry and Cytochemistry, 2006, 54, 85-96.	2.5	125
28	7-Ketocholesterol Induces Protein Ubiquitination, Myelin Figure Formation, and Light Chain 3 Processing in Vascular Smooth Muscle Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2004, 24, 2296-2301.	2.4	120
29	Defective Autophagy in Atherosclerosis: To Die or to Senesce?. Oxidative Medicine and Cellular Longevity, 2018, 2018, 1-12.	4.0	113
30	Reactive oxygen species induce RNA damage in human atherosclerosis. European Journal of Clinical Investigation, 2004, 34, 323-327.	3.4	112
31	Endothelial Senescence Contributes to Heart Failure With Preserved Ejection Fraction in an Aging Mouse Model. Circulation: Heart Failure, 2017, 10, .	3.9	112
32	Triphasic sequence of neointimal formation in the cuffed carotid artery of the rabbit.. Arteriosclerosis and Thrombosis: A Journal of Vascular Biology, 1992, 12, 1447-1457.	3.9	108
33	Distribution of cell replication and apoptosis in atherosclerotic plaques of cholesterol-fed rabbits. Atherosclerosis, 1996, 120, 115-124.	0.8	107
34	Inducible nitric oxide synthase colocalizes with signs of lipid oxidation/peroxidation in human atherosclerotic plaques. Cardiovascular Research, 1999, 43, 744-754.	3.8	104
35	Role of autophagy in heart failure associated with aging. Heart Failure Reviews, 2010, 15, 423-430.	3.9	103
36	Necrotic cell death in atherosclerosis. Basic Research in Cardiology, 2011, 106, 749-760.	5.9	101

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37	Potential therapeutic effects of mTOR inhibition in atherosclerosis. British Journal of Clinical Pharmacology, 2016, 82, 1267-1279.	2.4	94
38	Autophagy in atherosclerosis. Current Atherosclerosis Reports, 2008, 10, 216-223.	4.8	89
39	Everolimus-Induced mTOR Inhibition Selectively Depletes Macrophages in Atherosclerotic Plaques by Autophagy. Autophagy, 2007, 3, 241-244.	9.1	85
40	In vivo antioxidative activity of a quantified Pueraria lobata root extract. Journal of Ethnopharmacology, 2010, 127, 112-117.	4.1	84
41	Impaired Fibrillin-1 Function Promotes Features of Plaque Instability in Apolipoprotein Eâ€“Deficient Mice. Circulation, 2009, 120, 2478-2487.	1.6	81
42	mTOR Inhibition and Cardiovascular Diseases. Transplantation, 2018, 102, S44-S46.	1.0	80
43	Dipeptidyl peptidases in atherosclerosis: expression and role in macrophage differentiation, activation and apoptosis. Basic Research in Cardiology, 2013, 108, 350.	5.9	71
44	Cellular senescence links aging and diabetes in cardiovascular disease. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 315, H448-H462.	3.2	71
45	Gene Expression Profiling of Apoptosis-Related Genes in Human Atherosclerosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2002, 22, 2023-2029.	2.4	69
46	The endothelium during cuff-induced neointima formation in the rabbit carotid artery.. Arteriosclerosis and Thrombosis: A Journal of Vascular Biology, 1993, 13, 1874-1884.	3.9	68
47	Foam cell replication and smooth muscle cell apoptosis in human saphenous vein grafts. Histopathology, 1994, 25, 365-371.	2.9	67
48	Possible Mechanisms of Collar-Induced Intimal Thickening. Arteriosclerosis, Thrombosis, and Vascular Biology, 1997, 17, 1924-1930.	2.4	67
49	Immunohistochemical analysis of macroautophagy. Autophagy, 2013, 9, 386-402.	9.1	67
50	Expression and spatial heterogeneity of dipeptidyl peptidases in endothelial cells of conduct vessels and capillaries. Biological Chemistry, 2011, 392, 189-98.	2.5	66
51	Pharmacological modulation of cell death in atherosclerosis: a promising approach towards plaque stabilization?. British Journal of Pharmacology, 2011, 164, 1-13.	5.4	64
52	Inhibitory actions of the NRG-1/ErbB4 pathway in macrophages during tissue fibrosis in the heart, skin, and lung. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 313, H934-H945.	3.2	63
53	Spermidine reduces lipid accumulation and necrotic core formation inÂatherosclerotic plaques via induction of autophagy. Atherosclerosis, 2016, 251, 319-327.	0.8	62
54	Detection of Autophagy in Tissue by Standard Immunohistochemistry: Possibilities and Limitations. Autophagy, 2006, 2, 55-57.	9.1	61

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55	ATG4B inhibitors with a benzotropolone core structure block autophagy and augment efficiency of chemotherapy in mice. Biochemical Pharmacology, 2017, 138, 150-162.	4.4	61
56	Selective Depletion of Macrophages in Atherosclerotic Plaques via Macrophage-Specific Initiation of Cell Death. Trends in Cardiovascular Medicine, 2007, 17, 69-75.	4.9	59
57	Intimal Deposition of Functional von Willebrand Factor in Atherogenesis. Arteriosclerosis, Thrombosis, and Vascular Biology, 1999, 19, 2524-2534.	2.4	58
58	High frequency ultrasound to assess skin thickness in healthy adults. Vaccine, 2017, 35, 1810-1815.	3.8	57
59	Luminal Foam Cell Accumulation Is Associated With Smooth Muscle Cell Death in the Intimal Thickening of Human Saphenous Vein Grafts. Circulation, 1996, 94, 1255-1262.	1.6	57
60	Mechanisms of Neointima Formationâ€"Lessons from Experimental Models. Vascular Medicine, 1997, 2, 179-189.	1.5	54
61	Toll-like receptor 7 stimulation by imiquimod induces macrophage autophagy and inflammation in atherosclerotic plaques. Basic Research in Cardiology, 2012, 107, 269.	5.9	54
62	Amino Acid Deprivation Induces Both Apoptosis and Autophagy in Murine C2C12 Muscle Cells. Biotechnology Letters, 2005, 27, 1157-1163.	2.2	53
63	Methods to Assess Autophagy In Situâ€"Transmission Electron Microscopy Versus Immunohistochemistry. Methods in Enzymology, 2014, 543, 89-114.	1.0	53
64	The Protein Synthesis Inhibitor Anisomycin Induces Macrophage Apoptosis in Rabbit Atherosclerotic Plaques through p38 Mitogen-Activated Protein Kinase. Journal of Pharmacology and Experimental Therapeutics, 2009, 329, 856-864.	2.5	52
65	Elastic and Muscular Arteries Differ in Structure, Basal NO Production and Voltage-Gated Ca2+-Channels. Frontiers in Physiology, 2015, 6, 375.	2.8	50
66	Defective autophagy in vascular smooth muscle cells alters contractility and Ca²⁺ homeostasis in mice. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 308, H557-H567.	3.2	50
67	Neointima formation impairs endothelial muscarinic receptors while enhancing prostacyclin-mediated responses in the rabbit carotid artery.. Circulation Research, 1991, 68, 1669-1680.	4.5	48
68	Dexamethasone influences intimal thickening and vascular reactivity in the rabbit collared carotid artery. European Journal of Pharmacology, 1995, 294, 753-761.	3.5	46
69	Drug-induced macrophage autophagy in atherosclerosis: for better or worse?. Basic Research in Cardiology, 2013, 108, 321.	5.9	46
70	The modulation of smooth muscle cell phenotype is an early event in human aorto-coronary saphenous vein grafts. Virchows Archiv A, Pathological Anatomy and Histopathology, 1992, 420, 155-162.	1.4	45
71	Effect of Nitric Oxide Donors on Neointima Formation and Vascular Reactivity in the Collared Carotid Artery of Rabbits. Journal of Cardiovascular Pharmacology, 1995, 26, 272-279.	1.9	43
72	Dissecting out the Complex Ca2+-Mediated Phenylephrine-Induced Contractions of Mouse Aortic Segments. PLoS ONE, 2015, 10, e0121634.	2.5	43

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73	Dietary Polyphenols Targeting Arterial Stiffness: Interplay of Contributing Mechanisms and Gut Microbiome-Related Metabolism. Nutrients, 2019, 11, 578.	4.1	43
74	Selective Clearance of Macrophages in Atherosclerotic Plaques by the Protein Synthesis Inhibitor Cycloheximide. Journal of Pharmacology and Experimental Therapeutics, 2007, 320, 986-993.	2.5	42
75	Chronic intermittent mental stress promotes atherosclerotic plaque vulnerability, myocardial infarction and sudden death in mice. Atherosclerosis, 2015, 242, 288-294.	0.8	42
76	Vascular smooth muscle cell contraction and relaxation in the isolated aorta: a critical regulator of large artery compliance. Physiological Reports, 2019, 7, e13934.	1.7	41
77	Validation of in vivo plaque characterisation by virtual histology in a rabbit model of atherosclerosis. EuroIntervention, 2009, 5, 149-156.	3.2	41
78	Influence of chronic treatment with a nitric oxide donor on fatty streak development and reactivity of the rabbit aorta. British Journal of Pharmacology, 1995, 114, 1371-1382.	5.4	39
79	Pharmacological strategies to inhibit intra-plaque angiogenesis in atherosclerosis. Vascular Pharmacology, 2019, 112, 72-78.	2.1	39
80	Flow cytometric evaluation of a model for phagocytosis of cells undergoing apoptosis. Journal of Immunological Methods, 2004, 287, 101-108.	1.4	37
81	Fibrin(ogen) and von Willebrand Factor Deposition Are Associated With Intimal Thickening After Balloon Angioplasty of the Rabbit Carotid Artery. Arteriosclerosis, Thrombosis, and Vascular Biology, 1997, 17, 634-645.	2.4	37
82	A novel setâ€up for the ex vivo analysis of mechanical properties of mouse aortic segments stretched at physiological pressure and frequency. Journal of Physiology, 2016, 594, 6105-6115.	2.9	36
83	The Dipeptidyl Peptidases 4, 8, and 9 in Mouse Monocytes and Macrophages: DPP8/9 Inhibition Attenuates M1 Macrophage Activation in Mice. Inflammation, 2016, 39, 413-424.	3.8	36
84	Development and Validation of a Histological Method to Measure Microvessel Density in Whole-Slide Images of Cancer Tissue. PLoS ONE, 2016, 11, e0161496.	2.5	36
85	Western array analysis of human atherosclerotic plaques: downregulation of apoptosis-linked gene 2. Cardiovascular Research, 2003, 60, 259-267.	3.8	35
86	Intravascular thermography: Immediate functional and morphological vascular findings. European Heart Journal, 2004, 25, 158-165.	2.2	35
87	Decreased numbers of peripheral blood dendritic cells in patients with coronary artery disease are associated with diminished plasma Flt3 ligand levels and impaired plasmacytoid dendritic cell function. Clinical Science, 2011, 120, 415-426.	4.3	35
88	mRNA but not plasmid DNA is efficiently transfected in murine J774A.1 macrophages. Biochemical and Biophysical Research Communications, 2005, 327, 356-360.	2.1	34
89	Immunohistochemical characterisation of dendritic cells in human atherosclerotic lesions: possible pitfalls. Pathology, 2011, 43, 239-247.	0.6	34
90	Overexpression of the Anti-Apoptotic Caspase-2 Short Isoform in Macrophage-Derived Foam Cells of Human Atherosclerotic Plaques. American Journal of Pathology, 2003, 162, 731-736.	3.8	33

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91	Western blot analysis of a limited number of cells: a valuable adjunct to proteome analysis of paraffin wax-embedded, alcohol-fixed tissue after laser capture microdissection. Journal of Pathology, 2004, 202, 382-388.	4.5	33
92	The effect of a developing neo-intima on serotonergic and adrenergic contractions. European Journal of Pharmacology, 1990, 187, 519-524.	3.5	32
93	Periadventitial Inducible Nitric Oxide Synthase Expression and Intimal Thickening. Arteriosclerosis, Thrombosis, and Vascular Biology, 2000, 20, 1896-1902.	2.4	32
94	Inhibition of inositol monophosphatase by lithium chloride induces selective macrophage apoptosis in atherosclerotic plaques. British Journal of Pharmacology, 2011, 162, 1410-1423.	5.4	32
95	Neuregulin-1 attenuates stress-induced vascular senescence. Cardiovascular Research, 2018, 114, 1041-1051.	3.8	32
96	Differential Effect of the Protein Synthesis Inhibitors Puromycin and Cycloheximide on Vascular Smooth Muscle Cell Viability. Journal of Pharmacology and Experimental Therapeutics, 2008, 325, 824-832.	2.5	31
97	Contribution of transient and sustained calcium influx, and sensitization to depolarization-induced contractions of the intact mouse aorta. BMC Physiology, 2012, 12, 9.	3.6	31
98	Molecular and cellular mechanisms of macrophage survival in atherosclerosis. Basic Research in Cardiology, 2012, 107, 297.	5.9	31
99	Cholesterol-independent effects of atorvastatin prevent cardiovascular morbidity and mortality in a mouse model of atherosclerotic plaque rupture. Vascular Pharmacology, 2016, 80, 50-58.	2.1	31
100	z-VAD-fmk-Induced Non-Apoptotic Cell Death of Macrophages: Possibilities and Limitations for Atherosclerotic Plaque Stabilization. Autophagy, 2006, 2, 312-314.	9.1	30
101	Partial Inhibition of Glycolysis Reduces Atherogenesis Independent of Intraplaque Neovascularization in Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, 1168-1181.	2.4	30
102	Intraplaque neovascularization as a novel therapeutic target in advanced atherosclerosis. Expert Opinion on Therapeutic Targets, 2016, 20, 1247-1257.	3.4	29
103	Multi-slice computed tomography with N1177 identifies ruptured atherosclerotic plaques in rabbits. Basic Research in Cardiology, 2010, 105, 51-59.	5.9	28
104	Proteasome inhibitor bortezomib promotes a rupture-prone plaque phenotype in ApoE-deficient mice. Basic Research in Cardiology, 2010, 105, 39-50.	5.9	28
105	Smooth Muscle Cell Hypertrophy in Varicose Veins Is Associated with Expression of Estrogen Receptor-Î². Journal of Vascular Research, 2005, 42, 8-12.	1.4	27
106	RNA Damage in Human Atherosclerosis: Pathophysiological Significance and Implications for Gene Expression Studies. RNA Biology, 2005, 2, 4-7.	3.1	27
107	Phagocytosis of bacteria is enhanced in macrophages undergoing nutrient deprivation. FEBS Journal, 2009, 276, 2227-2240.	4.7	27
108	Vasoconstrictor responses after neoâ€intima formation and endothelial removal in the rabbit carotid artery. British Journal of Pharmacology, 1994, 112, 471-476.	5.4	26

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109	Nitric Oxide Donor Molsidomine Favors Features of Atherosclerotic Plaque Stability During Cholesterol Lowering in Rabbits. Journal of Cardiovascular Pharmacology, 2003, 41, 970-978.	1.9	26
110	Processing of Amyloid Precursor Protein as a Biochemical Link Between Atherosclerosis and Alzheimers Disease. Cardiovascular & Hematological Disorders Drug Targets, 2006, 6, 21-34.	0.7	26
111	Everolimus Triggers Cytokine Release by Macrophages. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, 1228-1235.	2.4	26
112	Assessment of shear stress related parameters in the carotid bifurcation using mouse-specific FSI simulations. Journal of Biomechanics, 2016, 49, 2135-2142.	2.1	26
113	The role of endothelial cells in the relaxations induced by 13â€hydroxyâ€•and 13â€hydroperoxylinoleic acid in canine arteries. British Journal of Pharmacology, 1992, 107, 597-603.	5.4	24
114	Effect of Non-Steroidal Anti-Inflammatory Drugs on Amyloid-Î² Formation and Macrophage Activation after Platelet Phagocytosis. Journal of Cardiovascular Pharmacology, 2004, 43, 462-470.	1.9	24
115	Consumer Choice Between Common Generic and Brand Medicines in a Country with a Small Generic Market. Journal of Managed Care & Specialty Pharmacy, 2015, 21, 288-296.	0.9	24
116	Everolimus depletes plaque macrophages, abolishes intraplaque neovascularization and improves survival in mice with advanced atherosclerosis. Vascular Pharmacology, 2019, 113, 70-76.	2.1	24
117	Macrophages but Not Smooth Muscle Cells Undergo Benzyloxycarbonyl-Val-Ala-dl-Asp(O-Methyl)-Fluoromethylketone-Induced Nonapoptotic Cell Death Depending on Receptor-Interacting Protein 1 Expression: Implications for the Stabilization of Macrophage-Rich Atherosclerotic Plaques. Journal of Pharmacology and Experimental Therapeutics, 2006, 317, 1356-1364.	2.5	23
118	Transglutaminase 2 Deficiency Decreases Plaque Fibrosis and Increases Plaque Inflammation in Apolipoprotein-E-Deficient Mice. Journal of Vascular Research, 2010, 47, 231-240.	1.4	23
119	Attenuated atherogenesis in apolipoprotein E-deficient mice lacking amyloid precursor protein. Atherosclerosis, 2011, 216, 54-58.	0.8	23
120	Therapeutic strategies to deplete macrophages in atherosclerotic plaques. British Journal of Clinical Pharmacology, 2012, 74, 246-263.	2.4	23
121	Continuous administration of the mTORC1 inhibitor everolimus induces tolerance and decreases autophagy in mice. British Journal of Pharmacology, 2016, 173, 3359-3371.	5.4	23
122	Novel drug discovery strategies for atherosclerosis that target necrosis and necroptosis. Expert Opinion on Drug Discovery, 2018, 13, 477-488.	5.0	23
123	Chronic Exposure to Exogenous Nitric Oxide May Suppress Its Endogenous Release and Efficacy. Journal of Cardiovascular Pharmacology, 1991, 17, S79-S82.	1.9	22
124	Selective loss of basal but not receptor-stimulated relaxation by endothelial nitric oxide synthase after isolation of the mouse aorta. European Journal of Pharmacology, 2012, 696, 111-119.	3.5	22
125	The influence of anesthesia and fluidâ€“structure interaction on simulated shear stress patterns in the carotid bifurcation of mice. Journal of Biomechanics, 2016, 49, 2741-2747.	2.1	22
126	Standard Immunohistochemical Assays to Assess Autophagy in Mammalian Tissue. Cells, 2017, 6, 17.	4.1	22

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127	In vivo inhibition of dipeptidyl peptidase IV activity by pro-pro-diphenyl-phosphonate (prodipine). Biochemical Pharmacology, 1997, 54, 173-179.	4.4	21
128	Dipeptidyl peptidase II and leukocyte cell death. Biochemical Pharmacology, 2006, 72, 70-79.	4.4	21
129	Shear Stress Metrics and Their Relation to Atherosclerosis: An In Vivo Follow-up Study in Atherosclerotic Mice. Annals of Biomedical Engineering, 2016, 44, 2327-2338.	2.5	21
130	Axitinib attenuates intraplaque angiogenesis, haemorrhages and plaque destabilization in mice. Vascular Pharmacology, 2018, 100, 34-40.	2.1	21
131	Expression of dendritic cell markers CD11c/BDCA-1 and CD123/BDCA-2 in coronary artery disease upon activation in whole blood. Journal of Immunological Methods, 2010, 362, 168-175.	1.4	20
132	Small molecule 3PO inhibits glycolysis but does not bind to 6â€phosphofructoâ€2â€kinase/fructoseâ€2,6â€bisphosphataseâ€3 (PFKFB3). FEBS Letters, 2020, 594, 3067-3075.	2.8	20
133	Gasdermin D Deficiency Limits the Transition of Atherosclerotic Plaques to an Inflammatory Phenotype in ApoE Knock-Out Mice. Biomedicines, 2022, 10, 1171.	3.2	20
134	Longitudinally orientated smooth muscle cells in rabbit arteries. Virchows Archiv A, Pathological Anatomy and Histopathology, 1993, 422, 293-299.	1.4	19
135	Nitric oxide selectively depletes macrophages in atherosclerotic plaques via induction of endoplasmic reticulum stress. British Journal of Pharmacology, 2007, 152, 493-500.	5.4	19
136	Inhibitor screening and enzymatic activity determination for autophagy target Atg4B using a gel electrophoresis-based assay. European Journal of Medicinal Chemistry, 2016, 123, 631-638.	5.5	19
137	Isometric Stretch Alters Vascular Reactivity of Mouse Aortic Segments. Frontiers in Physiology, 2017, 8, 157.	2.8	19
138	Early atherosclerosis is accompanied by a decreased rather than an increased accumulation of fatty acid hydroxyderivatives. Biochemical Pharmacology, 1991, 42, 279-283.	4.4	18
139	Study of potential systemic oxidative stress animal models for the evaluation of antioxidant activity: status of lipid peroxidation and fat-soluble antioxidants. Journal of Pharmacy and Pharmacology, 2010, 59, 131-136.	2.4	18
140	Linking CD11b⁺Dendritic Cells and Natural Killer T Cells to Plaque Inflammation in Atherosclerosis. Mediators of Inflammation, 2016, 2016, 1-12.	3.0	18
141	Mitochondrial uncoupling protein 2 mediates temperature heterogeneity in atherosclerotic plaques. Cardiovascular Research, 2007, 77, 425-431.	3.8	17
142	Effect of Statins on the Viability of Macrophages and Smooth Muscle Cells. Journal of Cardiovascular Pharmacology, 2010, 55, 269-275.	1.9	17
143	NecroX-7 reduces necrotic core formation in atherosclerotic plaques of Apoe knockout mice. Atherosclerosis, 2016, 252, 166-174.	0.8	17
144	Effect of angiotensin II-induced arterial hypertension on the voltage-dependent contractions of mouse arteries. Pflugers Archiv European Journal of Physiology, 2016, 468, 257-267.	2.8	17

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145	Adiponectin and ischemia-reperfusion injury in ST segment elevation myocardial infarction. European Heart Journal: Acute Cardiovascular Care, 2016, 5, 71-76.	1.0	16
146	Inflammation, Nitro-Oxidative Stress, Impaired Autophagy, and Insulin Resistance as a Mechanistic Convergence Between Arterial Stiffness and Alzheimerâ€™s Disease. Frontiers in Molecular Biosciences, 2021, 8, 651215.	3.5	16
147	Role of Polymorphonuclear Leukocytes in Collar-Induced Intimal Thickening in the Rabbit Carotid Artery. Arteriosclerosis, Thrombosis, and Vascular Biology, 1998, 18, 915-921.	2.4	15
148	L-type Ca2+ channel blockers inhibit the window contraction of mouse aorta segments with high affinity. European Journal of Pharmacology, 2014, 738, 170-178.	3.5	15
149	Impaired gait pattern as a sensitive tool to assess hypoxic brain damage in a novel mouse model of atherosclerotic plaque rupture. Physiology and Behavior, 2015, 139, 397-402.	2.1	15
150	Evaluating the implementation fidelity of New Medicines Service for asthma patients in community pharmacies in Belgium. Research in Social and Administrative Pharmacy, 2017, 13, 98-108.	3.0	15
151	Defective autophagy in vascular smooth muscle cells increases passive stiffness of the mouse aortic vessel wall. Pflugers Archiv European Journal of Physiology, 2020, 472, 1031-1040.	2.8	15
152	Doxorubicin induces arterial stiffness: A comprehensive in vivo and ex vivo evaluation of vascular toxicity in mice. Toxicology Letters, 2021, 346, 23-33.	0.8	15
153	Selective Depletion of Macrophages in Atherosclerotic Plaques. Circulation Research, 2007, 100, 751-753.	4.5	14
154	Fibrillin-1 impairment enhances bloodâ€“brain barrier permeability and xanthoma formation in brains of apolipoprotein E-deficient mice. Neuroscience, 2015, 295, 11-22.	2.3	14
155	Nitric oxide donor molsidomine favors features of atherosclerotic plaque stability and reduces myocardial infarction in mice. Vascular Pharmacology, 2019, 118-119, 106561.	2.1	14
156	Autophagy as an emerging therapeutic target for age-related vascular pathologies. Expert Opinion on Therapeutic Targets, 2020, 24, 131-145.	3.4	14
157	The PFKFB3 Inhibitor AZ67 Inhibits Angiogenesis Independently of Glycolysis Inhibition. International Journal of Molecular Sciences, 2021, 22, 5970.	4.1	14
158	Age-related cognitive decline in spatial learning and memory of C57BL/6J mice. Behavioural Brain Research, 2022, 418, 113649.	2.2	14
159	Basal activity of voltage-gated Ca2+ channels controls the IP3-mediated contraction by Î±1-adrenoceptor stimulation of mouse aorta segments. European Journal of Pharmacology, 2015, 760, 163-171.	3.5	13
160	Potential impact of policy regulation and generic competition on sales of cholesterol lowering medication, antidepressants and acid blocking agents in Belgium. Acta Clinica Belgica, 2012, 67, 160-71.	1.2	13
161	Doxorubicin Impairs Smooth Muscle Cell Contraction: Novel Insights in Vascular Toxicity. International Journal of Molecular Sciences, 2021, 22, 12812.	4.1	13
162	Selective Muscarinic Alterations of Nitric Oxide-Mediated Relaxations by Neointima. Journal of Cardiovascular Pharmacology, 1992, 20, S205-S207.	1.9	12

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163	Vulnerable Plaque Detection and Quantification with Gold Particleâ€“Enhanced Computed Tomography in Atherosclerotic Mouse Models. Molecular Imaging, 2015, 14, 7290.2015.00009.	1.4	12
164	Qualitative study of medication review in Flanders, Belgium among community pharmacists and general practitioners. International Journal of Clinical Pharmacy, 2021, 43, 1173-1182.	2.1	12
165	Selective Removal of Macrophages in Atherosclerotic Plaques as a Pharmacological Approach for Plaque Stabilization: Benefits Vs. Potential Complications. Current Vascular Pharmacology, 2010, 8, 495-508.	1.7	12
166	Progressive aortic stiffness in aging C57Bl/6 mice displays altered contractile behaviour and extracellular matrix changes. Communications Biology, 2022, 5, .	4.4	12
167	Platelet Adhesion to Subendothelial Structures under Flow Conditions: No Effect of the Lipoxygenase Product 13-HODE. Thrombosis and Haemostasis, 1989, 62, 802-806.	3.4	11
168	Serum Corticosterone and Insulin Resistance as Early Biomarkers in the hAPP23 Overexpressing Mouse Model of Alzheimerâ€™s Disease. International Journal of Molecular Sciences, 2021, 22, 6656.	4.1	11
169	PFKFB3 gene deletion in endothelial cells inhibits intraplaque angiogenesis and lesion formation in a murine model of venous bypass grafting. Angiogenesis, 2022, 25, 129-143.	7.2	11
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