

Olivier Meilhac

List of Publications by Year in descending order

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105
papers

4,463
citations

76326

40
h-index

118850

62
g-index

106
all docs

106
docs citations

106
times ranked

5508
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification by a Differential Proteomic Approach of Heat Shock Protein 27 as a Potential Marker of Atherosclerosis. <i>Circulation</i> , 2004, 110, 2216-2219.	1.6	214
2	Topological Determinants and Consequences of Adventitial Responses to Arterial Wall Injury. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007, 27, 1259-1268.	2.4	176
3	Oxidants and antioxidants in atherogenesis: an appraisal. <i>Journal of Lipid Research</i> , 1999, 40, 2143-2157.	4.2	157
4	Renewal of Mural Thrombus Releases Plasma Markers and Is Involved in Aortic Abdominal Aneurysm Evolution. <i>American Journal of Pathology</i> , 2006, 168, 1022-1030.	3.8	148
5	Involvement of intraplaque hemorrhage in atherothrombosis evolution via neutrophil protease enrichment. <i>Journal of Leukocyte Biology</i> , 2007, 82, 1420-1429.	3.3	137
6	Oxidized LDLs Induce Massive Apoptosis of Cultured Human Endothelial Cells Through a Calcium-Dependent Pathway. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1997, 17, 331-339.	2.4	126
7	<i>Porphyromonas gingivalis</i> Participates in Pathogenesis of Human Abdominal Aortic Aneurysm by Neutrophil Activation. Proof of Concept in Rats. <i>PLoS ONE</i> , 2011, 6, e18679.	2.5	125
8	Role of Leukocyte Elastase in Preventing Cellular Re-Colonization of the Mural Thrombus. <i>American Journal of Pathology</i> , 2004, 164, 2077-2087.	3.8	121
9	Steroid Transport, Local Synthesis, and Signaling within the Brain: Roles in Neurogenesis, Neuroprotection, and Sexual Behaviors. <i>Frontiers in Neuroscience</i> , 2018, 12, 84.	2.8	110
10	High-density lipoproteins during sepsis: from bench to bedside. <i>Critical Care</i> , 2020, 24, 134.	5.8	110
11	Mediators of neutrophil recruitment in human abdominal aortic aneurysms. <i>Cardiovascular Research</i> , 2009, 82, 532-541.	3.8	104
12	Lipid peroxides induce expression of catalase in cultured vascular cells. <i>Journal of Lipid Research</i> , 2000, 41, 1205-1213.	4.2	103
13	Pericellular plasmin induces smooth muscle cell anoikis. <i>FASEB Journal</i> , 2003, 17, 1301-1303.	0.5	97
14	Biological Significance of Decreased HSP27 in Human Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2006, 26, 1337-1343.	2.4	89
15	HDL antielastase activity prevents smooth muscle cell anoikis, a potential new antiatherogenic property. <i>FASEB Journal</i> , 2009, 23, 3129-3139.	0.5	86
16	Bcl-2 alters the balance between apoptosis and necrosis, but does not prevent cell death induced by oxidized low density lipoproteins. <i>FASEB Journal</i> , 1999, 13, 485-494.	0.5	80
17	Altered high-density lipoprotein composition and functions during severe COVID-19. <i>Scientific Reports</i> , 2021, 11, 2291.	3.3	77
18	Effect of dietary phenolic compounds on apoptosis of human cultured endothelial cells induced by oxidized LDL. <i>British Journal of Pharmacology</i> , 1998, 123, 565-573.	5.4	70

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19	Peripheral Artery Disease Is Associated With a High CD163/TWEAK Plasma Ratio. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010, 30, 1253-1262.	2.4	67
20	Periodontal bacteria in human carotid atherothrombosis as a potential trigger for neutrophil activation. <i>Atherosclerosis</i> , 2014, 236, 448-455.	0.8	66
21	<i>Porphyromonas gingivalis</i> lipopolysaccharide induces pro-inflammatory adipokine secretion and oxidative stress by regulating Toll-like receptor-mediated signaling pathways and redox enzymes in adipocytes. <i>Molecular and Cellular Endocrinology</i> , 2017, 446, 102-110.	3.2	62
22	Mitochondrial Function Is Involved in LDL Oxidation Mediated by Human Cultured Endothelial Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1997, 17, 1575-1582.	2.4	61
23	High-Density Lipoproteins Potentiate α -Antitrypsin Therapy in Elastase-Induced Pulmonary Emphysema. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2014, 51, 536-549.	2.9	59
24	Erythrocytes, leukocytes and platelets as a source of oxidative stress in chronic vascular diseases: Detoxifying mechanisms and potential therapeutic options. <i>Thrombosis and Haemostasis</i> , 2012, 108, 435-442.	3.4	58
25	Lipoprotein concentrations over time in the intensive care unit COVID-19 patients: Results from the ApoCOVID study. <i>PLoS ONE</i> , 2020, 15, e0239573.	2.5	57
26	Pharmacological Potentiation of Natriuretic Peptide Limits Polymorphonuclear Neutrophil-Vascular Cell Interactions. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2002, 22, 1824-1831.	2.4	55
27	Low plasma levels of HSP70 in patients with carotid atherosclerosis are associated with increased levels of proteolytic markers of neutrophil activation. <i>Atherosclerosis</i> , 2007, 194, 334-341.	0.8	54
28	Low HDL levels in sepsis versus trauma patients in intensive care unit. <i>Annals of Intensive Care</i> , 2017, 7, 60.	4.6	54
29	Increased plasma levels of NGAL, a marker of neutrophil activation, in patients with abdominal aortic aneurysm. <i>Atherosclerosis</i> , 2012, 220, 552-556.	0.8	52
30	High-density lipoprotein (HDL) particle size and concentration changes in septic shock patients. <i>Annals of Intensive Care</i> , 2019, 9, 68.	4.6	52
31	Protective Effect of High-Density Lipoprotein-Based Therapy in a Model of Embolic Stroke. <i>Stroke</i> , 2010, 41, 1536-1542.	2.0	50
32	High-Density Lipoproteins Are Bug Scavengers. <i>Biomolecules</i> , 2020, 10, 598.	4.0	49
33	Impaired constitutive and regenerative neurogenesis in adult hyperglycemic zebrafish. <i>Journal of Comparative Neurology</i> , 2017, 525, 442-458.	1.6	48
34	Subversion of the Heme Oxygenase-1 Antiviral Activity by Zika Virus. <i>Viruses</i> , 2019, 11, 2.	3.3	47
35	Early Atheroma-Derived Agonists of Peroxisome Proliferator-Activated Receptor- γ Trigger Intramedial Angiogenesis in a Smooth Muscle Cell-Dependent Manner. <i>Circulation Research</i> , 2011, 109, 1003-1014.	4.5	46
36	Anti-inflammatory and antioxidant effects of polyphenols extracted from <i>Antirhea borbonica</i> medicinal plant on adipocytes exposed to <i>Porphyromonas gingivalis</i> and <i>Escherichia coli</i> lipopolysaccharides. <i>Pharmacological Research</i> , 2017, 119, 303-312.	7.1	44

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37	Macrophages and Platelets Are the Major Source of Protease Nexin-1 in Human Atherosclerotic Plaque. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2008, 28, 1844-1850.	2.4	43
38	Biology of atherosclerotic plaques: What we are learning from proteomic analysis. <i>Cardiovascular Research</i> , 2006, 72, 18-29.	3.8	42
39	From intraplaque haemorrhages to plaque vulnerability. <i>Journal of Cardiovascular Medicine</i> , 2012, 13, 628-634.	1.5	42
40	Diabetes-induced hepatic oxidative stress: a new pathogenic role for glycated albumin. <i>Free Radical Biology and Medicine</i> , 2017, 102, 133-148.	2.9	42
41	ApoA-I/HDL-C levels are inversely associated with abdominal aortic aneurysm progression. <i>Thrombosis and Haemostasis</i> , 2015, 113, 1335-1346.	3.4	41
42	Advanced glycation end-products disrupt human endothelial cells redox homeostasis: new insights into reactive oxygen species production. <i>Free Radical Research</i> , 2019, 53, 150-169.	3.3	40
43	High-Density Lipoproteins Limit Neutrophil-Induced Damage to the Bloodâ€œBrain Barrier <i>in Vitro</i>. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 575-582.	4.3	39
44	Plasma Concentration of Heat Shock Protein 27 and Risk of Cardiovascular Disease: A Prospective, Nested Case-Control Study. <i>Clinical Chemistry</i> , 2008, 54, 139-146.	3.2	38
45	Impaired high-density lipoprotein anti-oxidant capacity in human abdominal aortic aneurysm. <i>Cardiovascular Research</i> , 2013, 100, 307-315.	3.8	38
46	Enhanced oxidative stress and damage in glycated erythrocytes. <i>PLoS ONE</i> , 2020, 15, e0235335.	2.5	38
47	Reconstituted High-density Lipoprotein Therapy Improves Survival in Mouse Models of Sepsis. <i>Anesthesiology</i> , 2020, 132, 825-838.	2.5	36
48	Immaturity of microvessels in haemorrhagic plaques is associated with proteolytic degradation of angiogenic factors. <i>Cardiovascular Research</i> , 2010, 85, 184-193.	3.8	34
49	Dysfunctional HDL in acute stroke. <i>Atherosclerosis</i> , 2016, 253, 75-80.	0.8	34
50	High-density Lipoproteinâ€œbased Therapy Reduces the Hemorrhagic Complications Associated With Tissue Plasminogen Activator Treatment in Experimental Stroke. <i>Stroke</i> , 2013, 44, 699-707.	2.0	33
51	Local carotid atherosclerotic plaque proteins for the identification of circulating biomarkers in coronary patients. <i>Atherosclerosis</i> , 2014, 233, 551-558.	0.8	33
52	Topology of protease activities reflects atherothrombotic plaque complexity. <i>Atherosclerosis</i> , 2007, 191, 1-10.	0.8	32
53	Hemorphin 7 Reflects Hemoglobin Proteolysis in Abdominal Aortic Aneurysm. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010, 30, 269-275.	2.4	32
54	Heat-shock proteins in cardiovascular disease. <i>Advances in Clinical Chemistry</i> , 2011, 54, 1-43.	3.7	32

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55	Aging and glycation promote erythrocyte phagocytosis by human endothelial cells: Potential impact in atherothrombosis under diabetic conditions. <i>Atherosclerosis</i> , 2019, 291, 87-98.	0.8	31
56	Quantitative HDL Proteomics Identifies Peroxiredoxin-6 as a Biomarker of Human Abdominal Aortic Aneurysm. <i>Scientific Reports</i> , 2016, 6, 38477.	3.3	29
57	Diabetes, adult neurogenesis and brain remodeling: New insights from rodent and zebrafish models. <i>Neurogenesis (Austin, Tex)</i> , 2017, 4, e1281862.	1.5	29
58	A hemorrhagic transformation model of mechanical stroke therapy with acute hyperglycemia in mice. <i>Journal of Comparative Neurology</i> , 2018, 526, 1006-1016.	1.6	28
59	A paradoxical pro-apoptotic effect of thrombin on smooth muscle cells. <i>Experimental Cell Research</i> , 2004, 299, 279-285.	2.6	25
60	Erythrocytes: Central Actors in Multiple Scenes of Atherosclerosis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5843.	4.1	24
61	Circulating Concentrations of Redox Biomarkers Do Not Improve the Prediction of Adverse Cardiovascular Events in Patients With Type 2 Diabetes Mellitus. <i>Journal of the American Heart Association</i> , 2018, 7, .	3.7	22
62	Advanced glycation end-products disrupt brain microvascular endothelial cell barrier: The role of mitochondria and oxidative stress. <i>Microvascular Research</i> , 2021, 133, 104098.	2.5	22
63	Protective Effects of Antioxidant Polyphenols against Hyperglycemia-Mediated Alterations in Cerebral Endothelial Cells and a Mouse Stroke Model. <i>Molecular Nutrition and Food Research</i> , 2020, 64, e1900779.	3.3	22
64	Expression of adiponectin receptors in the brain of adult zebrafish and mouse: Links with neurogenic niches and brain repair. <i>Journal of Comparative Neurology</i> , 2019, 527, 2317-2333.	1.6	21
65	Impaired brain homeostasis and neurogenesis in diet-induced overweight zebrafish: a preventive role from <i>A. borbonica</i> extract. <i>Scientific Reports</i> , 2020, 10, 14496.	3.3	21
66	Solid-phase hexapeptide ligand libraries open up new perspectives in the discovery of biomarkers in human plasma. <i>Clinica Chimica Acta</i> , 2011, 412, 740-747.	1.1	20
67	Predominant Role of Host Proteases in Myocardial Damage Associated with Infectious Endocarditis Induced by <i>Enterococcus faecalis</i> in a Rat Model. <i>Infection and Immunity</i> , 2013, 81, 1721-1729.	2.2	20
68	Relationship between lipoprotein concentrations and short-term and 1-year mortality in intensive care unit septic patients: results from the HIGHSEPS study. <i>Annals of Intensive Care</i> , 2021, 11, 11.	4.6	20
69	High-Density Lipoprotein Therapy in Stroke: Evaluation of Endothelial SR-BI-Dependent Neuroprotective Effects. <i>International Journal of Molecular Sciences</i> , 2021, 22, 106.	4.1	18
70	Evaluation of Polyphenol Content and Antioxidant Capacity of Aqueous Extracts from Eight Medicinal Plants from Reunion Island: Protection against Oxidative Stress in Red Blood Cells and Preadipocytes. <i>Antioxidants</i> , 2020, 9, 959.	5.1	17
71	Antioxidant Polyphenols of <i>Antirhea borbonica</i> Medicinal Plant and Caffeic Acid Reduce Cerebrovascular, Inflammatory and Metabolic Disorders Aggravated by High-Fat Diet-Induced Obesity in a Mouse Model of Stroke. <i>Antioxidants</i> , 2022, 11, 858.	5.1	17
72	Fucoidan interferes with <i>Porphyromonas gingivalis</i> -induced aneurysm enlargement by decreasing neutrophil activation. <i>Journal of Vascular Surgery</i> , 2013, 57, 796-805.	1.1	16

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73	Detection of Apoptotic Cells in a Rabbit Model with Atherosclerosis-Like Lesions Using the Positron Emission Tomography Radiotracer [¹⁸ F]ML-10. <i>Molecular Imaging</i> , 2015, 14, 7290.2015.00017.	1.4	16
74	Elastase inhibitor AZD9668 treatment prevented progression of experimental abdominal aortic aneurysms. <i>Journal of Vascular Surgery</i> , 2016, 63, 486-492.e1.	1.1	16
75	Antirhea borbonica Aqueous Extract Protects Albumin and Erythrocytes from Glycooxidative Damages. <i>Antioxidants</i> , 2020, 9, 415.	5.1	16
76	Role of Vegetation-Associated Protease Activity in Valve Destruction in Human Infective Endocarditis. <i>PLoS ONE</i> , 2012, 7, e45695.	2.5	15
77	High-Density Lipoproteins in Stroke. <i>Handbook of Experimental Pharmacology</i> , 2015, 224, 509-526.	1.8	15
78	Assessment of Inflammation and Calcification in Pseudoxanthoma Elasticum Arteries and Skin with ¹⁸ F-FluoroDeoxyGlucose and ¹⁸ F-Sodium Fluoride Positron Emission Tomography/Computed Tomography Imaging: The GOCAPXE Trial. <i>Journal of Clinical Medicine</i> , 2020, 9, 3448.	2.4	15
79	Low Levels of Low-Density Lipoprotein-C Associated With Proprotein Convertase Subtilisin Kexin 9 Inhibition Do Not Increase the Risk of Hemorrhagic Transformation. <i>Stroke</i> , 2014, 45, 3086-3088.	2.0	14
80	First Recombinant High-Density Lipoprotein Particles Administration in a Severe ICU COVID-19 Patient, a Multi-Omics Exploratory Investigation. <i>Biomedicines</i> , 2022, 10, 754.	3.2	14
81	High-Fat Diet Aggravates Cerebral Infarct, Hemorrhagic Transformation and Neuroinflammation in a Mouse Stroke Model. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4571.	4.1	13
82	Phenolic Profile of Herbal Infusion and Polyphenol-Rich Extract from Leaves of the Medicinal Plant Antirhea borbonica: Toxicity Assay Determination in Zebrafish Embryos and Larvae. <i>Molecules</i> , 2020, 25, 4482.	3.8	12
83	Changes in High-Density Lipoproteins Related to Outcomes in Patients with Acute Stroke. <i>Journal of Clinical Medicine</i> , 2020, 9, 2269.	2.4	12
84	Macrophages in Atherosclerosis, First or Second Row Players?. <i>Biomedicines</i> , 2021, 9, 1214.	3.2	11
85	High-density lipoprotein therapy inhibits Porphyromonas gingivalis-induced abdominal aortic aneurysm progression. <i>Thrombosis and Haemostasis</i> , 2016, 115, 789-799.	3.4	10
86	Synthesis and Automated Labeling of [¹⁸ F]Darapladib, a Lp-PLA ₂ Ligand, as Potential PET Imaging Tool of Atherosclerosis. <i>ACS Medicinal Chemistry Letters</i> , 2019, 10, 743-748.	2.8	10
87	Caffeic Acid, One of the Major Phenolic Acids of the Medicinal Plant Antirhea borbonica, Reduces Renal Tubulointerstitial Fibrosis. <i>Biomedicines</i> , 2021, 9, 358.	3.2	10
88	Hypericum lanceolatum Lam. Medicinal Plant: Potential Toxicity and Therapeutic Effects Based on a Zebrafish Model. <i>Frontiers in Pharmacology</i> , 2022, 13, 832928.	3.5	10
89	Development, synthesis, and ⁶⁸ Ga-Labeling of a Lipophilic complexing agent for atherosclerosis PET imaging. <i>European Journal of Medicinal Chemistry</i> , 2019, 176, 129-134.	5.5	8
90	Deleterious Effects of Overfeeding on Brain Homeostasis and Plasticity in Adult Zebrafish. <i>Zebrafish</i> , 2021, 18, 190-206.	1.1	8

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91	Links between Insulin Resistance and Periodontal Bacteria: Insights on Molecular Players and Therapeutic Potential of Polyphenols. <i>Biomolecules</i> , 2022, 12, 378.	4.0	8
92	HDL biodistribution and brain receptors in zebrafish, using HDLs as vectors for targeting endothelial cells and neural progenitors. <i>Scientific Reports</i> , 2021, 11, 6439.	3.3	7
93	Protective Effects of Medicinal Plant Decoctions on Macrophages in the Context of Atherosclerosis. <i>Nutrients</i> , 2021, 13, 280.	4.1	6
94	Distribution of Adiponectin Receptors in the Brain of Adult Mouse: Effect of a Single Dose of the Adiponectin Receptor Agonist, AdipoRON, on Ischemic Stroke. <i>Brain Sciences</i> , 2022, 12, 680.	2.3	6
95	Genome-Wide Characterization of a Highly Penetrant Form of Hyperlipoprotein(a)emia Associated With Genetically Elevated Cardiovascular Risk. <i>Circulation Genomic and Precision Medicine</i> , 2022, 15, CIRCGEN121003489.	3.6	5
96	Aqueous Extract of <i>Psiloxylon mauritianum</i> , Rich in Gallic Acid, Prevents Obesity and Associated Deleterious Effects in Zebrafish. <i>Antioxidants</i> , 2022, 11, 1309.	5.1	5
97	Lipoprotein concentration in patients requiring extracorporeal membrane oxygenation. <i>Scientific Reports</i> , 2021, 11, 17225.	3.3	4
98	A New Murine Model of Endovascular Aortic Aneurysm Repair. <i>Journal of Visualized Experiments</i> , 2013, , e50740.	0.3	3
99	Regioselectivity of thiouracil alkylation: Application to optimization of Darapladib synthesis. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 787-792.	2.2	3
100	Lack of Neuroprotective Effects of High-Density Lipoprotein Therapy in Stroke under Acute Hyperglycemic Conditions. <i>Molecules</i> , 2021, 26, 6365.	3.8	3
101	ApoA-I Nanoparticles as Curcumin Carriers for Cerebral Endothelial Cells: Improved Cytoprotective Effects against Methylglyoxal. <i>Pharmaceuticals</i> , 2022, 15, 347.	3.8	3
102	Impact of Enhanced Phagocytosis of Glycated Erythrocytes on Human Endothelial Cell Functions. <i>Cells</i> , 2022, 11, 2200.	4.1	2
103	PCSK9 (Proprotein Convertase Subtilisin Kexin Type 9) Inhibition in Hyperglycemic Mice Increases the Risk of Hemorrhagic Transformation of Ischemic Stroke. <i>Stroke</i> , 2021, 52, e545-e547.	2.0	1
104	High-density Lipoproteins (HDLs): Biomarkers or bio-actors of abdominal aortic aneurysmal disease?. <i>EBioMedicine</i> , 2019, 43, 5-6.	6.1	0
105	Antioxidant and Cytoprotective Properties of Polyphenol-Rich Extracts from <i>Antirhea borbonica</i> and <i>Doratoxylon apetalum</i> against Atherogenic Lipids in Human Endothelial Cells. <i>Antioxidants</i> , 2022, 11, 34.	5.1	0