Philippe Bonnin

List of Publications by Year
in descending order

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Version: 2024-02-01

94 papers	4,455 citations	109321 35 h-index	110387 64 g-index
96 all docs	96 docs citations	96 times ranked	7489 citing authors

#	Article	IF	Citations
1	B lymphocytes trigger monocyte mobilization and impair heart function after acute myocardial infarction. Nature Medicine, 2013, 19, 1273-1280.	30.7	422
2	TGF-Î² activity protects against inflammatory aortic aneurysm progression and complications in angiotensin IIâ€“infused mice. Journal of Clinical Investigation, 2010, 120, 422-432.	8.2	352
3	Systemic inflammation disrupts the developmental program of white matter. Annals of Neurology, 2011, 70, 550-565.	5.3	337
4	Further Pharmacological and Genetic Evidence for the Efficacy of PlGF Inhibition in Cancer and Eye Disease. Cell, 2010, 141, 178-190.	28.9	243
5	Circulating cell membrane microparticles transfer heme to endothelial cells and trigger vasoocclusions in sickle cell disease. Blood, 2015, 125, 3805-3814.	1.4	217
6	Protection Against Myocardial Infarction and No-Reflow Through Preservation of Vascular Integrity by Angiopoietin-Like 4. Circulation, 2012, 125, 140-149.	1.6	131
7	Endothelin receptor antagonism prevents hypoxia-induced mortality and morbidity in a mouse model of sickle-cell disease. Journal of Clinical Investigation, 2008, 118, 1924-1933.	8.2	118
8	Serotonin and Angiotensin Receptors in Cardiac Fibroblasts Coregulate Adrenergic-Dependent Cardiac Hypertrophy. Circulation Research, 2009, 104, 113-123.	4.5	107
9	Hypertension Accelerates the Progression of Alzheimer-Like Pathology in a Mouse Model of the Disease. Hypertension, 2015, 65, 218-224.	2.7	105
10	TREM-1 Mediates Inflammatory Injury and Cardiac Remodeling Following Myocardial Infarction. Circulation Research, 2015, 116, 1772-1782.	4.5	102
11	Erythrocyte microparticles can induce kidney vaso-occlusions in a murine model of sickle cell disease. Blood, 2012, 120, 5050-5058.	1.4	101
12	Role of the Hematocrit in a Rabbit Model of Arterial Thrombosis and BleedingÂ. Anesthesiology, 1999, 90, 1454-1461.	2.5	99
13	Mast cells regulate myofilament calcium sensitization and heart function after myocardial infarction. Journal of Experimental Medicine, 2016, 213, 1353-1374.	8.5	97
14	Noninvasive Assessment of Endothelial Function in the Skin Microcirculation. American Journal of Hypertension, 2010, 23, 541-546.	2.0	96
15	Neuropilin-1 is upregulated in hepatocellular carcinoma and contributes to tumour growth and vascular remodelling. Journal of Hepatology, 2011, 55, 866-875.	3.7	79
16	The Chemokine Decoy Receptor D6 Prevents Excessive Inflammation and Adverse Ventricular Remodeling After Myocardial Infarction. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, 2206-2213.	2.4	78
17	Cytotoxic CD8+ T cells promote granzyme B-dependent adverse post-ischemic cardiac remodeling. Nature Communications, 2021, 12, 1483.	12.8	73
18	Endothelial S1P ₁ Signaling Counteracts Infarct Expansion in Ischemic Stroke. Circulation Research, 2021, 128, 363-382.	4.5	71

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19	Inhaled Nitric Oxide Reduces Brain Damage by Collateral Recruitment in a Neonatal Stroke Model. Stroke, 2012, 43, 3078-3084.	2.0	67
20	WNK1 Regulates Vasoconstriction and Blood Pressure Response to Î± ₁ -Adrenergic Stimulation in Mice. Hypertension, 2011, 58, 439-445.	2.7	63
21	Platelet and Erythrocyte Sources of S1P Are Redundant for Vascular Development and Homeostasis, but Both Rendered Essential After Plasma S1P Depletion in Anaphylactic Shock. Circulation Research, 2016, 119, e110-26.	4.5	61
22	Cardiac and Renal Effects of Levosimendan, Arginine Vasopressin, and Norepinephrine in Lipopolysaccharide-treated Rabbits. Anesthesiology, 2005, 103, 514-521.	2.5	60
23	Vasomotor Effects of Transcutaneous CO2 in Stage II Peripheral Occlusive Arterial Disease. Angiology, 1995, 46, 785-791.	1.8	56
24	Angiotensinogen Delays Angiogenesis and Tumor Growth of Hepatocarcinoma in Transgenic Mice. Cancer Research, 2009, 69, 2853-2860.	0.9	56
25	Diabetic Microangiopathy: Impact of Impaired Cerebral Vasoreactivity and Delayed Angiogenesis After Permanent Middle Cerebral Artery Occlusion on Stroke Damage and Cerebral Repair in Mice. Diabetes, 2015, 64, 999-1010.	0.6	56
26	Small Interfering RNAs Induce Target-Independent Inhibition of Tumor Growth and Vasculature Remodeling in a Mouse Model of Hepatocellular Carcinoma. American Journal of Pathology, 2010, 177, 3192-3201.	3.8	54
27	Sildenafil Mediates Blood-Flow Redistribution and Neuroprotection After Neonatal Hypoxia-Ischemia. Stroke, 2014, 45, 850-856.	2.0	54
28	Iron Regulator Hepcidin Impairs Macrophage-Dependent Cardiac Repair After Injury. Circulation, 2019, 139, 1530-1547.	1.6	48
29	Ultrasound assessment of shortâ€term ocular vascular effects of intravitreal injection of bevacizumab (Avastin^{Â®}) in neovascular ageâ€related macular degeneration. Acta Ophthalmologica, 2010, 88, 641-645.	1.1	47
30	Sildenafil, a cyclic GMP phosphodiesterase inhibitor, induces microglial modulation after focal ischemia in the neonatal mouse brain. Journal of Neuroinflammation, 2016, 13, 95.	7.2	47
31	Nitric oxide signaling in the brain: A new target for inhaled nitric oxide?. Annals of Neurology, 2013, 73, 442-448.	5.3	41
32	Evaluation of cyclosporine A in a stroke model in the immature rat brain. Experimental Neurology, 2011, 230, 58-66.	4.1	40
33	Proof of prometastatic niche induction by hepatic stellate cells. Journal of Surgical Research, 2015, 194, 496-504.	1.6	40
34	Impact of intracranial blood-flow redistribution on stroke size during ischemiaâ€“reperfusion in 7-day-old rats. Journal of Neuroscience Methods, 2011, 198, 103-109.	2.5	39
35	Enhanced flow-dependent vasodilatation after bed rest, a possible mechanism for orthostatic intolerance in humans. European Journal of Applied Physiology, 2001, 85, 420-426.	2.5	38
36	Chronic Hypoxiaâ€“Induced Angiogenesis Normalizes Blood Pressure in Spontaneously Hypertensive Rats. Circulation Research, 2008, 103, 761-769.	4.5	35

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37	Effects of Blood Pressure Control With Perindopril/Indapamide on the Microcirculation in Hypertensive Patients. American Journal of Hypertension, 2010, 23, 1136-1143.	2.0	35
38	Inhaled NO prevents hyperoxia-induced white matter damage in neonatal rats. Experimental Neurology, 2014, 252, 114-123.	4.1	35
39	Maternal serotonin influences cardiac function in adult offspring. FASEB Journal, 2008, 22, 2340-2349.	0.5	30
40	Unilateral Blood Flow Decrease Induces Bilateral and Symmetric Responses in the Immature Brain. American Journal of Pathology, 2009, 175, 2111-2120.	3.8	30
41	Ultrasonic Assessment of Hepatic Blood Flow as a Marker of Mouse Hepatocarcinoma. Ultrasound in Medicine and Biology, 2007, 33, 561-570.	1.5	28
42	von Willebrand factor/ADAMTS13 axis and venous thromboembolism in moderateâ€toâ€severe COVIDâ€19 patients. British Journal of Haematology, 2021, 192, 1097-1100.	2.5	28
43	Inactivation of Nitric Oxide Synthesis Exacerbates the Development of Alzheimer Disease Pathology in APPPS1 Mice (Amyloid Precursor Protein/Presenilin-1). Hypertension, 2017, 70, 613-623.	2.7	27
44	Ultrasound Imaging of Renal Vaso-Occlusive Events in Transgenic Sickle Mice Exposed to Hypoxic Stress. Ultrasound in Medicine and Biology, 2008, 34, 1076-1084.	1.5	26
45	Early Collateral Recruitment After Stroke in Infants and Adults. Stroke, 2019, 50, 2604-2611.	2.0	26
46	Increasing Maternal Blood Pressure with Ephedrine Increases Uterine Artery Blood Flow Velocity during Uterine Contraction. Anesthesiology, 2002, 96, 612-616.	2.5	24
47	Pathophysiological Processes Underlying the High Prevalence of Deep Vein Thrombosis in Critically Ill COVID-19 Patients. Frontiers in Physiology, 2020, 11, 608788.	2.8	24
48	Dual action of NO synthases on blood flow and infarct volume consecutive to neonatal focal cerebral ischemia. Experimental Neurology, 2012, 236, 50-57.	4.1	23
49	Ketorolac and Enoxaparin Affect Arterial Thrombosis and Bleeding in the RabbitÂ. Anesthesiology, 1998, 88, 1310-1317.	2.5	21
50	Recombinant activated factor VII decreases bleeding without increasing arterial thrombosis in rabbits. Canadian Journal of Anaesthesia, 2004, 51, 672-679.	1.6	21
51	The Effects of a Polymerized Bovine-Derived Hemoglobin Solution in a Rabbit Model of Arterial Thrombosis and Bleeding. Anesthesia and Analgesia, 2004, 98, 604-610.	2.2	20
52	Ultrasonic Assessment of Cerebral Blood Flow Changes During Ischemia-Reperfusion in 7-Day-Old Rats. Ultrasound in Medicine and Biology, 2008, 34, 913-922.	1.5	20
53	Endothelial Epas1 Deficiency Is Sufficient To Promote Parietal Epithelial Cell Activation and FSGS in Experimental Hypertension. Journal of the American Society of Nephrology: JASN, 2017, 28, 3563-3578.	6.1	20
54	Dynamic Spatio-Temporal Imaging of Early Reflow in a Neonatal Rat Stroke Model. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 137-145.	4.3	16

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55	Extreme-Dipper Profile, Increased Aortic Stiffness, and Impaired Subendocardial Viability in Hypertension. American Journal of Hypertension, 2017, 30, 417-426.	2.0	16
56	OPTICAL COHERENCE TOMOGRAPHY ANGIOGRAPHY SHOWS DEEP CAPILLARY PLEXUS HYPOPERFUSION IN INCOMPLETE CENTRAL RETINAL ARTERY OCCLUSION. Retinal Cases and Brief Reports, 2015, 9, 333-338.	0.6	12
57	Flow-mediated vasodilatation of carotid and branchial arteries in healthy subjects and in lacunar stroke patients. Ultrasound in Medicine and Biology, 2006, 32, 1165-1169.	1.5	11
58	Anti-TNFÎ± therapy early improves hemodynamics in local intestinal and extraintestinal circulations in active Crohn's disease. Journal of Crohn's and Colitis, 2013, 7, 451-459.	1.3	11
59	Lutheran/basal cell adhesion molecule accelerates progression of crescentic glomerulonephritis in mice. Kidney International, 2014, 85, 1123-1136.	5.2	11
60	Orthotopic Animal Model of Pseudomyxoma Peritonei. American Journal of Pathology, 2014, 184, 1920-1929.	3.8	11
61	Collateral Supply in Preclinical Cerebral Stroke Models. Translational Stroke Research, 2021, , 1.	4.2	11
62	Peripheral blood flow responses to exercise after successful correction of coarctation of the aorta. Journal of the American College of Cardiology, 1995, 26, 1719-1724.	2.8	10
63	Ultrasound assessment of ocular vascular effects of repeated intravitreal injections of ranibizumab for wet ageâ€related macular degeneration. Acta Ophthalmologica, 2014, 92, e382-7.	1.1	10
64	Effects of Increased Resistance to Umbilical Blood Flow on Fetal Hemodynamic Changes Induced by Maternal Oxygen Administration: A Doppler Velocimetric Study on the Sheep. Pediatric Research, 1993, 34, 796-800.	2.3	9
65	Evidence of fetal cerebral vasodilatation induced by submaximal maternal dynamic exercise in human pregnancy. Journal of Perinatal Medicine, 1997, 25, 63-70.	1.4	9
66	Tumor and Non-Tumor Liver Angiogenesis Is Traced and Evaluated by Hepatic Arterial Ultrasound in Murine Models. Ultrasound in Medicine and Biology, 2012, 38, 1195-1204.	1.5	9
67	Intravenous Administration of Human Adipose Derived-Mesenchymal Stem Cells Is Not Efficient in Diabetic or Hypertensive Mice Subjected to Focal Cerebral Ischemia. Frontiers in Neuroscience, 2019, 13, 718.	2.8	9
68	Transcranial duplex sonography for monitoring circle of Willis artery occlusion in a rat embolic stroke model. Journal of Neuroscience Methods, 2011, 197, 289-296.	2.5	8
69	Effect of normovolemic hematocrit changes on blood pressure and flow. Life Sciences, 2016, 157, 62-66.	4.3	8
70	Different response to antiepileptic drugs according to the type of epileptic events in a neonatal ischemia-reperfusion model. Neurobiology of Disease, 2017, 99, 145-153.	4.4	8
71	Deletion of the myeloid endothelin-B receptor confers long-term protection from angiotensin II-mediated kidney, eye and vessel injury. Kidney International, 2020, 98, 1193-1209.	5.2	8
72	Increased anticoagulation reduces proximal deep vein thrombosis in mechanically ventilated COVID-19 patients. Journal of Infection, 2021, 82, 186-230.	3.3	8

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73	Ischemic Postconditioning Fails to Protect against Neonatal Cerebral Stroke. PLoS ONE, 2012, 7, e49695.	2.5	8
74	Ischemic postconditioning in cerebral ischemia: Differences between the immature and mature brain?. International Journal of Developmental Neuroscience, 2015, 45, 39-43.	1.6	6
75	Preclinical Assessment of the Efficacy of Anti-Angiogenic Therapies in Hepatocellular Carcinoma. Ultrasound in Medicine and Biology, 2016, 42, 438-446.	1.5	6
76	Prediction of clinical outcome using blood flow volume in the superior mesenteric artery in patients with pseudomyxoma peritonei treated by cytoreductive surgery. European Journal of Surgical Oncology, 2017, 43, 1932-1938.	1.0	6
77	Hepatectomy increases metastatic graft and growth in an immunocompetent murine model of peritoneal metastases. European Journal of Surgical Oncology, 2018, 44, 784-791.	1.0	6
78	Prostaglandin E1-Mediated Collateral Recruitment Is Delayed in a Neonatal Rat Stroke Model. International Journal of Molecular Sciences, 2018, 19, 2995.	4.1	6
79	Synchronized Pulsatile Flow With Low Systolic Output From Venoâ€Arterial Extracorporeal Membrane Oxygenation Improves Myocardial Recovery After Experimental Cardiac Arrest in Pigs. Artificial Organs, 2018, 42, 597-604.	1.9	5
80	Peripheral post-ischemic vascular repair is impaired in a murine model of Alzheimerâ€™s disease. Angiogenesis, 2018, 21, 557-569.	7.2	5
81	Poly(ADP-Ribose) Polymerase Inhibitor PJ34 Reduces Brain Damage after Stroke in the Neonatal Mouse Brain. Current Issues in Molecular Biology, 2021, 43, 301-312.	2.4	5
82	Blood Flow and Shear Stress Allow Monitoring of Progression and Prognosis of Tumor Diseases. Frontiers in Physiology, 2021, 12, 693052.	2.8	5
83	Correlation between Ultra-Wide-Field Retinal Imaging Findings and Vascular Supra-Aortic Changes in Takayasu Arteritis. Journal of Clinical Medicine, 2021, 10, 4916.	2.4	5
84	Unusual late discovery of interrupted aortic arch by ultrasonography and three-dimensional MDCT. Diagnostic and Interventional Imaging, 2016, 97, 1197-1199.	3.2	4
85	Post-operative wall shear stress in the superior mesenteric artery: Biomarker of long term outcome in patients with residual disease after incomplete cytoreductive surgery for pseudomyxoma peritonei. European Journal of Surgical Oncology, 2019, 45, 1727-1733.	1.0	4
86	Cerebral Vasodilator Property of Poly(ADP-Ribose) Polymerase Inhibitor (PJ34) in the Neonatal and Adult Mouse Is Mediated by the Nitric Oxide Pathway. International Journal of Molecular Sciences, 2020, 21, 6569.	4.1	4
87	Renal arteriovenous fistula revealed by severe hypertension during pregnancy. BMJ Case Reports, 2013, 2013, bcr2013200559-bcr2013200559.	0.5	4
88	Controlled arterial reflow after ischemia induces better outcomes in the juvenile rat brain. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 3091-3096.	4.3	3
89	Wall Shear Stress in the Feeding Native Conduit Arteries of Superficial Arteriovenous Malformations of the Lower Face is a Reliable Marker of Disease Progression. Ultraschall in Der Medizin, 2020, 41, 428-438.	1.5	3
90	Anaesthesia-Induced Transcriptomic Changes in the Context of Renal Ischemia Uncovered by the Use of a Novel Clamping Device. International Journal of Molecular Sciences, 2021, 22, 9840.	4.1	3

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91	Low-pressure sequential compression of lower limbs enhances forearm skin blood flow. Clinical and Investigative Medicine, 2016, 39, 204.	0.6	2
92	Assessment of Tumor Response in Mice with Ovarian Peritoneal Carcinomatosis using Doppler Ultrasound of the Superior Mesenteric Artery and Celiac Trunk. Ultrasound in Medicine and Biology, 2021, 47, 759-768.	1.5	1
93	Failing to palpate femoral pulses in adult hypertensive patients may lead to diagnostic wandering and major cerebrovascular events in cases of undetected aortic coarctation. Journal of Human Hypertension, 2022, , .	2.2	1
94	Intrapulmonary artery balloon pulsation improves circulatory function after acute myocardial infarction in pigs. Acute Cardiac Care, 2016, 18, 42-44.	0.2	0