

# Vincent Pialoux

## List of Publications by Year in descending order

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Version: 2024-02-01

70  
papers

2,140  
citations

279798

23  
h-index

243625

44  
g-index

74  
all docs

74  
docs citations

74  
times ranked

3240  
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of oxidative stress in the pathogenesis of sickle cell disease. <i>IUBMB Life</i> , 2012, 64, 72-80.	3.4	165
2	Point: Counterpoint: Hypobaric hypoxia induces/does not induce different responses from normobaric hypoxia. <i>Journal of Applied Physiology</i> , 2012, 112, 1783-1784.	2.5	158
3	Effects of Exposure to Intermittent Hypoxia on Oxidative Stress and Acute Hypoxic Ventilatory Response in Humans. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2009, 180, 1002-1009.	5.6	149
4	Redox Control of Skeletal Muscle Regeneration. <i>Antioxidants and Redox Signaling</i> , 2017, 27, 276-310.	5.4	124
5	Relationship between oxidative stress and HIF-1 $\alpha$ mRNA during sustained hypoxia in humans. <i>Free Radical Biology and Medicine</i> , 2009, 46, 321-326.	2.9	115
6	Ventilation, Oxidative Stress, and Nitric Oxide in Hypobaric versus Normobaric Hypoxia. <i>Medicine and Science in Sports and Exercise</i> , 2013, 45, 253-260.	0.4	108
7	Hypoxia-Induced Oxidative Stress Modulation with Physical Activity. <i>Frontiers in Physiology</i> , 2017, 8, 84.	2.8	108
8	Effect of Cardiorespiratory Fitness on Vascular Regulation and Oxidative Stress in Postmenopausal Women. <i>Hypertension</i> , 2009, 54, 1014-1020.	2.7	77
9	Oxidative Stress and Inflammation, Key Targets of Atherosclerotic Plaque Progression and Vulnerability: Potential Impact of Physical Activity. <i>Sports Medicine</i> , 2018, 48, 2725-2741.	6.5	64
10	Estradiol Protects Against Cardiorespiratory Dysfunctions and Oxidative Stress in Intermittent Hypoxia. <i>Sleep</i> , 2017, 40, .	1.1	52
11	Adaptive Responses to Hypoxia and/or Hyperoxia in Humans. <i>Antioxidants and Redox Signaling</i> , 2022, 37, 887-912.	5.4	51
12	Losartan abolishes oxidative stress induced by intermittent hypoxia in humans. <i>Journal of Physiology</i> , 2011, 589, 5529-5537.	2.9	44
13	Preterm birth and oxidative stress: Effects of acute physical exercise and hypoxia physiological responses. <i>Redox Biology</i> , 2018, 17, 315-322.	9.0	41
14	Exercise training blunts oxidative stress in sickle cell trait carriers. <i>Journal of Applied Physiology</i> , 2012, 112, 1445-1453.	2.5	38
15	Moderate endurance exercise in patients with sickle cell anaemia: effects on oxidative stress and endothelial activation. <i>British Journal of Haematology</i> , 2014, 164, 124-130.	2.5	37
16	Moderate Exercise Blunts Oxidative Stress Induced by Normobaric Hypoxic Confinement. <i>Medicine and Science in Sports and Exercise</i> , 2014, 46, 33-41.	0.4	37
17	$\alpha$ -GPD deficiency and absence of $\beta$ -thalassaemia increase the risk for cerebral vasculopathy in children with sickle cell anemia. <i>European Journal of Haematology</i> , 2016, 96, 404-408.	2.2	35
18	Sickle Cell Trait Worsens Oxidative Stress, Abnormal Blood Rheology, and Vascular Dysfunction in Type 2 Diabetes. <i>Diabetes Care</i> , 2015, 38, 2120-2127.	8.6	33

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19	Effect of Age on Blood Rheology in Sickle Cell Anaemia and Sickle Cell Haemoglobin C Disease: A Cross-Sectional Study. <i>PLoS ONE</i> , 2016, 11, e0158182.	2.5	31
20	Prooxidant/Antioxidant Balance in Hypoxia: A Cross-Over Study on Normobaric vs. Hypobaric Live High-Train Low. <i>PLoS ONE</i> , 2015, 10, e0137957.	2.5	30
21	Does physical activity increase or decrease the risk of sickle cell disease complications?. <i>British Journal of Sports Medicine</i> , 2018, 52, 214-218.	6.7	29
22	Oxidative stress is decreased in physically active sickle cell <scp>SAD</scp> mice. <i>British Journal of Haematology</i> , 2015, 168, 747-756.	2.5	27
23	Feasibility and Health Benefits of an Individualized Physical Activity Intervention in Women With Metastatic Breast Cancer: Intervention Study. <i>JMIR MHealth and UHealth</i> , 2020, 8, e12306.	3.7	27
24	Effects of exercise on markers of oxidative stress: an Ancillary analysis of the Alberta Physical Activity and Breast Cancer Prevention Trial. <i>BMJ Open Sport and Exercise Medicine</i> , 2016, 2, e000171.	2.9	26
25	Carotid intraplaque haemorrhage: pathogenesis, histological classification, imaging methods and clinical value. <i>Annals of Translational Medicine</i> , 2020, 8, 1273-1273.	1.7	26
26	Tissue-Specific Oxidative Stress Modulation by Exercise: A Comparison between MICT and HIIT in an Obese Rat Model. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-11.	4.0	25
27	Evidence for Differences Between Hypobaric and Normobaric Hypoxia Is Conclusive. <i>Exercise and Sport Sciences Reviews</i> , 2013, 41, 133.	3.0	24
28	Increased Prevalence of Type 2 Diabetes-Related Complications in Combined Type 2 Diabetes and Sickle Cell Trait. <i>Diabetes Care</i> , 2018, 41, 2595-2602.	8.6	23
29	Protective roles of estradiol against vascular oxidative stress in ovariectomized female rats exposed to normoxia or intermittent hypoxia. <i>Acta Physiologica</i> , 2019, 225, e13159.	3.8	23
30	Inflammatory and oxidative stress phenotypes in transgenic sickle cell mice. <i>Blood Cells, Molecules, and Diseases</i> , 2016, 62, 13-21.	1.4	21
31	Association between Oxidative Stress, Genetic Factors, and Clinical Severity in Children with Sickle Cell Anemia. <i>Journal of Pediatrics</i> , 2018, 195, 228-235.	1.8	21
32	Exercise Overrides Blunted Hypoxic Ventilatory Response in Prematurely Born Men. <i>Frontiers in Physiology</i> , 2019, 10, 437.	2.8	20
33	Association between oxidative stress and vascular reactivity in children with sickle cell anaemia and sickle haemoglobin C disease. <i>British Journal of Haematology</i> , 2017, 178, 468-475.	2.5	19
34	A Personalized Physical Activity Program With Activity Trackers and a Mobile Phone App for Patients With Metastatic Breast Cancer: Protocol for a Single-Arm Feasibility Trial. <i>JMIR Research Protocols</i> , 2018, 7, e10487.	1.0	18
35	FemHab: The effects of bed rest and hypoxia on oxidative stress in healthy women. <i>Journal of Applied Physiology</i> , 2016, 120, 930-938.	2.5	17
36	Plasma Exosomes and Improvements in Endothelial Function by Angiotensin 2 Type 1 Receptor or Cyclooxygenase 2 Blockade following Intermittent Hypoxia. <i>Frontiers in Neurology</i> , 2017, 8, 709.	2.4	17

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37	Physical activity limits pulmonary endothelial activation in sickle cell SAD mice. <i>Blood</i> , 2014, 123, 2745-2747.	1.4	16
38	Moderate exercise training decreases inflammation in transgenic sickle cell mice. <i>Blood Cells, Molecules, and Diseases</i> , 2018, 69, 45-52.	1.4	16
39	Physical activity preferences before and after participation in a 6-month physical activity intervention among women with metastatic breast cancer. <i>European Journal of Cancer Care</i> , 2020, 29, e13169.	1.5	16
40	Sarcopenia and serum biomarkers of oxidative stress after a 6-month physical activity intervention in women with metastatic breast cancer: results from the ABLE feasibility trial. <i>Breast Cancer Research and Treatment</i> , 2021, 188, 601-613.	2.5	16
41	Magnetic resonance imaging biomarkers of exercise-induced improvement of oxidative stress and inflammation in the brain of old high-fat ApoE <sup>−/−</sup> mice. <i>Journal of Physiology</i> , 2016, 594, 6969-6985.	2.9	15
42	Endurance training reduces exercise-induced acidosis and improves muscle function in a mouse model of sickle cell disease. <i>Molecular Genetics and Metabolism</i> , 2018, 123, 400-410.	1.1	15
43	Exercise Does Not Protect against Peripheral and Central Effects of a High Cholesterol Diet Given Ad libitum in Old ApoE <sup>−/−</sup> Mice. <i>Frontiers in Physiology</i> , 2016, 7, 453.	2.8	14
44	Role of Exercise-Induced Oxidative Stress in Sickle Cell Trait and Disease. <i>Sports Medicine</i> , 2016, 46, 629-639.	6.5	14
45	The TOTUM-63 Supplement and High-Intensity Interval Training Combination Limits Weight Gain, Improves Glycemic Control, and Influences the Composition of Gut Mucosa-Associated Bacteria in Rats on a High Fat Diet. <i>Nutrients</i> , 2021, 13, 1569.	4.1	13
46	Evaluation of agreement between hemoglobin A1c, fasting glucose, and fructosamine in Senegalese individuals with and without sickle-cell trait. <i>PLoS ONE</i> , 2019, 14, e0212552.	2.5	12
47	Effect of pre-term birth on oxidative stress responses to normoxic and hypoxic exercise. <i>Redox Biology</i> , 2020, 32, 101497.	9.0	12
48	Pulmonary arterial systolic pressure and susceptibility to high altitude pulmonary edema. <i>Respiratory Physiology and Neurobiology</i> , 2011, 179, 294-299.	1.6	11
49	High-intensity exercise in hypoxia improves endothelial function via increased nitric oxide bioavailability in C57BL/6 mice. <i>Acta Physiologica</i> , 2021, 233, e13700.	3.8	11
50	Sickle-cell trait and diagnosis of type 2 diabetes. <i>Lancet Diabetes and Endocrinology</i> , 2018, 6, 840-843.	11.4	10
51	Impact of obstructive sleep apnea and intermittent hypoxia on blood rheology – a translational study. <i>European Respiratory Journal</i> , 2021, 58, 2100352.	6.7	10
52	Impact of Physical Activity on Oxidative Stress Markers in Patients with Metastatic Breast Cancer. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-9.	4.0	9
53	Receptor for Advanced Glycation End Products Antagonism Blunts Kidney Damage in Transgenic Townes Sickle Mice. <i>Frontiers in Physiology</i> , 2019, 10, 880.	2.8	8
54	Cardio-respiratory, oxidative stress and acute mountain sickness responses to normobaric and hypobaric hypoxia in prematurely born adults. <i>European Journal of Applied Physiology</i> , 2020, 120, 1341-1355.	2.5	8

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55	Effects of Individualized Treadmill Endurance Training on Oxidative Stress in Skeletal Muscles of Transgenic Sickle Mice. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-9.	4.0	7
56	Association between physical activity and sedentary behaviour on carotid atherosclerotic plaques: an epidemiological and histological study in 90 asymptomatic patients. <i>British Journal of Sports Medicine</i> , 2020, 54, 469-474.	6.7	7
57	Blood rheology in children with the S $\beta$ <sup>+</sup> -thalassemia syndrome. <i>Clinical Hemorheology and Microcirculation</i> , 2018, 69, 207-214.	1.7	6
58	Role of Gender and Physical Activity Level on Cardiovascular Risk Factors and Biomarkers of Oxidative Stress in the Elderly. <i>Oxidative Medicine and Cellular Longevity</i> , 2020, 2020, 1-9.	4.0	6
59	Effect of acute aerobic exercise before immunotherapy and chemotherapy infusion in patients with metastatic non-small-cell lung cancer: protocol for the ERICA feasibility trial. <i>BMJ Open</i> , 2022, 12, e056819.	1.9	6
60	Design and methods of a national, multicenter, randomized and controlled trial to assess the efficacy of a physical activity program to improve health-related quality of life and reduce fatigue in women with metastatic breast cancer: ABLE02 trial. <i>BMC Cancer</i> , 2020, 20, 622.	2.6	5
61	Beneficial Effects of High Intensity Interval Training and/or Linseed Oil Supplementation to Limit Obesity-Induced Oxidative Stress in High Fat Diet-Fed Rats. <i>Nutrients</i> , 2021, 13, 3531.	4.1	3
62	Effectiveness of an individualized home-based physical activity program in surgery-free non-endarterectomized asymptomatic stroke patients: a study protocol for the PACAPh interventional randomized trial. <i>Trials</i> , 2022, 23, 145.	1.6	3
63	Alterations in vascular reactivity in a transgenic mouse model of sickle cell trait. <i>British Journal of Haematology</i> , 2020, 189, e154-e157.	2.5	2
64	Cortical inflammation and brain signs of high-risk atherosclerosis in a non-human primate model. <i>Brain Communications</i> , 2021, 3, fcab064.	3.3	2
65	Effect of 4 days of intermittent hypoxia on oxidative stress in healthy men. <i>FASEB Journal</i> , 2008, 22, 960.3.	0.5	2
66	Impact of physical activity and sedentary behavior on biological risk factors of carotid atherosclerotic plaque instability. <i>Atherosclerosis</i> , 2017, 263, e150.	0.8	1
67	Exacerbated metabolic changes in skeletal muscle of sickle cell mice submitted to an acute ischemia-reperfusion paradigm. <i>Clinical Science</i> , 2018, 132, 2103-2115.	4.3	1
68	Ischaemia-induced muscle metabolic abnormalities are poorly alleviated by endurance training in a mouse model of sickle cell disease. <i>Experimental Physiology</i> , 2019, 104, 398-406.	2.0	0
69	Effects of hypoxia-reoxygenation stimuli on renal redox status and nuclear factor erythroid 2-related factor 2 pathway in sickle cell SAD mice. <i>Experimental Physiology</i> , 2020, 105, 357-369.	2.0	0
70	Relationships between oxidative stress, HIF-1 $\alpha$ transcription, erythropoietin and vascular endothelial growth factor during sustained hypoxia in humans. <i>FASEB Journal</i> , 2008, 22, 960.16.	0.5	0