

Katrien De Bock

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

10,253
citations

57752

44
h-index

91872

69
g-index

81
all docs

81
docs citations

81
times ranked

18392
citing authors

#	ARTICLE	IF	CITATIONS
1	Recurrent training rejuvenates and enhances transcriptome and methylome responses in young and older human muscle. <i>JCSM Rapid Communications</i> , 2022, 5, 10-32.	1.6	14
2	Creatine transporter-deficient rat model shows motor dysfunction, cerebellar alterations, and muscle creatine deficiency without muscle atrophy. <i>Journal of Inherited Metabolic Disease</i> , 2022, 45, 278-291.	3.6	7
3	James R. Mitchell (1971-2020). <i>Cell Metabolism</i> , 2021, 33, 458-461.	16.2	0
4	Fat Induces Glucose Metabolism in Nontransformed Liver Cells and Promotes Liver Tumorigenesis. <i>Cancer Research</i> , 2021, 81, 1988-2001.	0.9	43
5	Dampened Muscle mTORC1 Response Following Ingestion of High-Quality Plant-Based Protein and Insect Protein Compared to Whey. <i>Nutrients</i> , 2021, 13, 1396.	4.1	8
6	Exercise-induced angiogenesis is dependent on metabolically primed ATF3/4+ endothelial cells. <i>Cell Metabolism</i> , 2021, 33, 1793-1807.e9.	16.2	28
7	Macrophage-derived glutamine boosts satellite cells and muscle regeneration. <i>Nature</i> , 2020, 587, 626-631.	27.8	119
8	Endothelial Lactate Controls Muscle Regeneration from Ischemia by Inducing M2-like Macrophage Polarization. <i>Cell Metabolism</i> , 2020, 31, 1136-1153.e7.	16.2	233
9	Role of the GLUT1 Glucose Transporter in Postnatal CNS Angiogenesis and Blood-Brain Barrier Integrity. <i>Circulation Research</i> , 2020, 127, 466-482.	4.5	103
10	Corticospinal Control of Human Locomotion as a New Determinant of Age-Related Sarcopenia: An Exploratory Study. <i>Journal of Clinical Medicine</i> , 2020, 9, 720.	2.4	5
11	The effect of resistance training, detraining and retraining on muscle strength and power, myofibre size, satellite cells and myonuclei in older men. <i>Experimental Gerontology</i> , 2020, 133, 110860.	2.8	47
12	Exercise promotes satellite cell contribution to myofibers in a load-dependent manner. <i>Skeletal Muscle</i> , 2020, 10, 21.	4.2	53
13	Hallmarks of frailty and osteosarcopenia in prematurely aged PolgA ^(D257A/D257A) mice. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2020, 11, 1121-1140.	7.3	17
14	PHD1 controls muscle mTORC1 in a hydroxylation-independent manner by stabilizing leucyl tRNA synthetase. <i>Nature Communications</i> , 2020, 11, 174.	12.8	1,868
15	Restoration of histone acetylation ameliorates disease and metabolic abnormalities in a FUS mouse model. <i>Acta Neuropathologica Communications</i> , 2019, 7, 107.	5.2	61
16	Voluntary Resistance Running as a Model to Induce mTOR Activation in Mouse Skeletal Muscle. <i>Frontiers in Physiology</i> , 2019, 10, 1271.	2.8	8
17	Differentiation but not ALS mutations in FUS rewires motor neuron metabolism. <i>Nature Communications</i> , 2019, 10, 4147.	12.8	41
18	HIF1 α Suppresses Tumor Cell Proliferation through Inhibition of Aspartate Biosynthesis. <i>Cell Reports</i> , 2019, 26, 2257-2265.e4.	6.4	69

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19	Measuring Glycolytic and Mitochondrial Fluxes in Endothelial Cells Using Radioactive Tracers. <i>Methods in Molecular Biology</i> , 2019, 1862, 121-136.	0.9	12
20	Metabolic fitness in relation to genetic variation and leukocyte DNA methylation. <i>Physiological Genomics</i> , 2019, 51, 12-26.	2.3	2
21	Metabolic regulation of exercise-induced angiogenesis. <i>Vascular Biology (Bristol, England)</i> , 2019, 1, H1-H8.	3.2	36
22	Intensity-Specific Differential Leukocyte DNA Methylation in Physical (In)Activity: An Exploratory Approach. <i>Twin Research and Human Genetics</i> , 2018, 21, 101-111.	0.6	6
23	Energy metabolism in ALS: an underappreciated opportunity?. <i>Acta Neuropathologica</i> , 2018, 135, 489-509.	7.7	191
24	Endothelial Cell Metabolism in Health and Disease. <i>Trends in Cell Biology</i> , 2018, 28, 224-236.	7.9	208
25	The Warburg Effect in Endothelial Cells and its Potential as an Anti-angiogenic Target in Cancer. <i>Frontiers in Cell and Developmental Biology</i> , 2018, 6, 100.	3.7	86
26	Enhancing enterocyte fatty acid oxidation in mice affects glycemic control depending on dietary fat. <i>Scientific Reports</i> , 2018, 8, 10818.	3.3	16
27	Quiescent Endothelial Cells Upregulate Fatty Acid β -Oxidation for Vasculoprotection via Redox Homeostasis. <i>Cell Metabolism</i> , 2018, 28, 881-894.e13.	16.2	174
28	Premorbid obesity, but not nutrition, prevents critical illness-induced muscle wasting and weakness. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2017, 8, 89-101.	7.3	55
29	Intake of a Ketone Ester Drink during Recovery from Exercise Promotes mTORC1 Signaling but Not Glycogen Resynthesis in Human Muscle. <i>Frontiers in Physiology</i> , 2017, 8, 310.	2.8	71
30	Breast Cancer-Derived Lung Metastases Show Increased Pyruvate Carboxylase-Dependent Anaplerosis. <i>Cell Reports</i> , 2016, 17, 837-848.	6.4	203
31	Role of Mitochondrial Complex IV in Age-Dependent Obesity. <i>Cell Reports</i> , 2016, 16, 2991-3002.	6.4	65
32	Inhibition of the Glycolytic Activator PFKFB3 in Endothelium Induces Tumor Vessel Normalization, Impairs Metastasis, and Improves Chemotherapy. <i>Cancer Cell</i> , 2016, 30, 968-985.	16.8	464
33	Deletion or Inhibition of the Oxygen Sensor PHD1 Protects against Ischemic Stroke via Reprogramming of Neuronal Metabolism. <i>Cell Metabolism</i> , 2016, 23, 280-291.	16.2	77
34	(Epi)genetic variation in ageing of metabolic fitness. <i>Archives of Public Health</i> , 2015, 73, .	2.4	0
35	Fatty acid carbon is essential for dNTP synthesis in endothelial cells. <i>Nature</i> , 2015, 520, 192-197.	27.8	466
36	Metabolic control of the cell cycle. <i>Cell Cycle</i> , 2015, 14, 3379-3388.	2.6	92

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37	Mitochondria in peroxisome-deficient hepatocytes exhibit impaired respiration, depleted DNA, and PGC-1 α independent proliferation. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 285-298.	4.1	65
38	Essentials of Angiogenesis. , 2015, , 137-165.		1
39	Incomplete and transitory decrease of glycolysis. <i>Cell Cycle</i> , 2014, 13, 16-22.	2.6	52
40	Partial and Transient Reduction of Glycolysis by PFKFB3 Blockade Reduces Pathological Angiogenesis. <i>Cell Metabolism</i> , 2014, 19, 37-48.	16.2	429
41	Tumor Vessel Normalization by Chloroquine Independent of Autophagy. <i>Cancer Cell</i> , 2014, 26, 190-206.	16.8	358
42	Essentials of Angiogenesis. , 2014, , 1-34.		1
43	Role of PFKFB3-Driven Glycolysis in Vessel Sprouting. <i>Cell</i> , 2013, 154, 651-663.	28.9	1,117
44	Role of Endothelial Cell Metabolism in Vessel Sprouting. <i>Cell Metabolism</i> , 2013, 18, 634-647.	16.2	320
45	Control of vessel sprouting by genetic and metabolic determinants. <i>Trends in Endocrinology and Metabolism</i> , 2013, 24, 589-596.	7.1	54
46	Inhibition of Tumor Angiogenesis and Growth by a Small-Molecule Multi-FGF Receptor Blocker with Allosteric Properties. <i>Cancer Cell</i> , 2013, 23, 477-488.	16.8	138
47	Mice Deficient in the Respiratory Chain Gene <i>Cox6a2</i> Are Protected against High-Fat Diet-Induced Obesity and Insulin Resistance. <i>PLoS ONE</i> , 2013, 8, e56719.	2.5	58
48	Cripto regulates skeletal muscle regeneration and modulates satellite cell determination by antagonizing myostatin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E3231-40.	7.1	48
49	Treating Diabetes by Blocking a Vascular Growth Factor. <i>Cell Metabolism</i> , 2012, 16, 553-555.	16.2	11
50	Vessel abnormalization: another hallmark of cancer?Molecular mechanisms and therapeutic implications. <i>Current Opinion in Genetics and Development</i> , 2011, 21, 73-79.	3.3	175
51	Exercise-induced, but not creatine-induced, decrease in intramyocellular lipid content improves insulin sensitivity in rats. <i>Journal of Nutritional Biochemistry</i> , 2011, 22, 1178-1185.	4.2	13
52	Training in the fasted state facilitates re-activation of eEF2 activity during recovery from endurance exercise. <i>European Journal of Applied Physiology</i> , 2011, 111, 1297-1305.	2.5	18
53	Antiangiogenic therapy, hypoxia, and metastasis: risky liaisons, or not?. <i>Nature Reviews Clinical Oncology</i> , 2011, 8, 393-404.	27.6	252
54	Hyperglycemic diet and training alter insulin sensitivity, intramyocellular lipid content but not UCP3 protein expression in rat skeletal muscles. <i>International Journal of Molecular Medicine</i> , 2010, 25, 905-13.	4.0	4

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55	Effectiveness of a Lifestyle Physical Activity Versus a Structured Exercise Intervention in Older Adults. <i>Journal of Aging and Physical Activity</i> , 2010, 18, 335-352.	1.0	57
56	Increased p70s6k phosphorylation during intake of a protein+carbohydrate drink following resistance exercise in the fasted state. <i>European Journal of Applied Physiology</i> , 2010, 108, 791-800.	2.5	29
57	From Vessel Sprouting to Normalization. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010, 30, 2331-2336.	2.4	60
58	Cafeteria diet-induced insulin resistance is not associated with decreased insulin signaling or AMPK activity and is alleviated by physical training in rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010, 299, E215-E224.	3.5	40
59	Short-term delivery of anti-PlGF antibody delays progression of atherosclerotic plaques to vulnerable lesions. <i>Cardiovascular Research</i> , 2010, 86, 29-36.	3.8	51
60	Loss or Silencing of the PHD1 Prolyl Hydroxylase Protects Livers of Mice Against Ischemia/Reperfusion Injury. <i>Gastroenterology</i> , 2010, 138, 1143-1154.e2.	1.3	108
61	Mechanisms of Vessel Branching. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009, 29, 639-649.	2.4	328
62	Androgen Signaling in Myocytes Contributes to the Maintenance of Muscle Mass and Fiber Type Regulation But Not to Muscle Strength or Fatigue. <i>Endocrinology</i> , 2009, 150, 3558-3566.	2.8	111
63	Endothelial oxygen sensors regulate tumor vessel abnormalization by instructing pericyte endothelial cells. <i>Journal of Molecular Medicine</i> , 2009, 87, 561-569.	3.9	33
64	Deficiency or inhibition of oxygen sensor Phd1 induces hypoxia tolerance by reprogramming basal metabolism. <i>Nature Genetics</i> , 2008, 40, 170-180.	21.4	433
65	Human Sarcopenia Reveals an Increase in SOCS-3 and Myostatin and a Reduced Efficiency of Akt Phosphorylation. <i>Rejuvenation Research</i> , 2008, 11, 163-175B.	1.8	231
66	Effect of training in the fasted state on metabolic responses during exercise with carbohydrate intake. <i>Journal of Applied Physiology</i> , 2008, 104, 1045-1055.	2.5	113
67	Evaluation of intramyocellular lipid breakdown during exercise by biochemical assay, NMR spectroscopy, and Oil Red O staining. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 293, E428-E434.	3.5	32
68	ACTN3 (R577X) genotype is associated with fiber type distribution. <i>Physiological Genomics</i> , 2007, 32, 58-63.	2.3	257
69	Fiber type-specific muscle glycogen sparing due to carbohydrate intake before and during exercise. <i>Journal of Applied Physiology</i> , 2007, 102, 183-188.	2.5	40
70	Efficiency of Lifestyle Physical Activity Interventions to Increase Cardiorespiratory and Muscular Fitness in Older Adults. <i>Medicine and Science in Sports and Exercise</i> , 2006, 38, S369-S370.	0.4	0
71	Exercise in the fasted state facilitates fibre type-specific intramyocellular lipid breakdown and stimulates glycogen resynthesis in humans. <i>Journal of Physiology</i> , 2005, 564, 649-660.	2.9	111
72	Acute Rhodiola Rosea Intake Can Improve Endurance Exercise Performance. <i>International Journal of Sport Nutrition and Exercise Metabolism</i> , 2004, 14, 298-307.	2.1	113