

# Christo Muller

## List of Publications by Year in descending order

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Version: 2024-02-01

87  
papers

2,383  
citations

201674

27  
h-index

243625

44  
g-index

90  
all docs

90  
docs citations

90  
times ranked

2395  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental models of lipid overload and their relevance in understanding skeletal muscle insulin resistance and pathological changes in mitochondrial oxidative capacity. <i>Biochimie</i> , 2022, 196, 182-193.	2.6	10
2	<i>Sclerocarya birrea</i> (Marula) Extract Inhibits Hepatic Steatosis in db/db Mice. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 3782.	2.6	1
3	Impact of physical exercise and caloric restriction in patients with type 2 diabetes: Skeletal muscle insulin resistance and mitochondrial dysfunction as ideal therapeutic targets. <i>Life Sciences</i> , 2022, 297, 120467.	4.3	21
4	New Insights into the Efficacy of Aspalathin and Other Related Phytochemicals in Type 2 Diabetes—A Review. <i>International Journal of Molecular Sciences</i> , 2022, 23, 356.	4.1	14
5	Running with Type 1 Diabetes: A Case Report on the Benefit of Sensor Technology. <i>International Journal of Diabetology</i> , 2022, 3, 310-314.	2.0	0
6	In vitro comparison of various antioxidants and flavonoids from Rooibos as beta cell protectants against lipotoxicity and oxidative stress-induced cell death. <i>PLoS ONE</i> , 2022, 17, e0268551.	2.5	6
7	The Effect of Phytochemicals and Food Bioactive Compounds on Diabetes. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7765.	4.1	5
8	Metformin and heart failure—related outcomes in patients with or without diabetes: a systematic review of randomized controlled trials. <i>Heart Failure Reviews</i> , 2021, 26, 1437-1445.	3.9	23
9	Effect of Human Immunodeficiency Virus on Trace Elements in the Brain. <i>Biological Trace Element Research</i> , 2021, 199, 41-52.	3.5	1
10	Multi-element Analysis of Brain Regions from South African Cadavers. <i>Biological Trace Element Research</i> , 2021, 199, 425-441.	3.5	4
11	An RP-LC-LUV-TWIMS-HRMS and Chemometric Approach to Differentiate between <i>Momordicabalsamina</i> Chemotypes from Three Different Geographical Locations in Limpopo Province of South Africa. <i>Molecules</i> , 2021, 26, 1896.	3.8	1
12	Therapeutic effects of an aspalathin-rich green rooibos extract, pioglitazone and atorvastatin combination therapy in diabetic db/db mice. <i>PLoS ONE</i> , 2021, 16, e0251069.	2.5	4
13	The triterpene, methyl-3 $\beta$ -hydroxyxanosta-9,24-dien-21-oate (RA3), attenuates high glucose-induced oxidative damage and apoptosis by improving energy metabolism. <i>Phytomedicine</i> , 2021, 85, 153546.	5.3	5
14	Non-communicable diseases — a catastrophe for South Africa. <i>South African Journal of Science</i> , 2021, 117, .	0.7	6
15	The Potential Role of Polyphenols in Modulating Mitochondrial Bioenergetics within the Skeletal Muscle: A Systematic Review of Preclinical Models. <i>Molecules</i> , 2021, 26, 2791.	3.8	12
16	Antimycin A-induced mitochondrial dysfunction is consistent with impaired insulin signaling in cultured skeletal muscle cells. <i>Toxicology in Vitro</i> , 2021, 76, 105224.	2.4	11
17	Prevalence of Hypertension and Its Associated Risk Factors in a Rural Black Population of Mthatha Town, South Africa. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 1215.	2.6	26
18	Rooibos Flavonoids, Aspalathin, Isoorientin, and Orientin Ameliorate Antimycin A-Induced Mitochondrial Dysfunction by Improving Mitochondrial Bioenergetics in Cultured Skeletal Muscle Cells. <i>Molecules</i> , 2021, 26, 6289.	3.8	11

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19	Orientin Improves Substrate Utilization and the Expression of Major Genes Involved in Insulin Signaling and Energy Regulation in Cultured Insulin-Resistant Liver Cells. <i>Molecules</i> , 2021, 26, 6154.	3.8	5
20	Spatial and Temporal Trends of SARS-CoV-2 RNA from Wastewater Treatment Plants over 6 Weeks in Cape Town, South Africa. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 12085.	2.6	16
21	Intestinal Barrier Function and Immune Homeostasis Are Missing Links in Obesity and Type 2 Diabetes Development. <i>Frontiers in Endocrinology</i> , 2021, 12, 833544.	3.5	28
22	Trace Element Concentration Changes in Brain Tumors: A Review. <i>Anatomical Record</i> , 2020, 303, 1293-1299.	1.4	19
23	Enhanced production of Th1- and Th2-type antibodies and induction of regulatory T cells in mice by oral administration of Cyclopia extracts with similar phenolic composition to honeybush herbal tea. <i>Journal of Functional Foods</i> , 2020, 64, 103704.	3.4	9
24	Palmitate-induced toxicity is associated with impaired mitochondrial respiration and accelerated oxidative stress in cultured cardiomyocytes: The critical role of coenzyme Q9/10. <i>Toxicology in Vitro</i> , 2020, 68, 104948.	2.4	8
25	Effect of human immunodeficiency virus on the brain: A review. <i>Anatomical Record</i> , 2020, 304, 1389-1399.	1.4	6
26	Coenzyme Q10 Supplementation Improves Adipokine Levels and Alleviates Inflammation and Lipid Peroxidation in Conditions of Metabolic Syndrome: A Meta-Analysis of Randomized Controlled Trials. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3247.	4.1	30
27	Isorientin: A dietary flavone with the potential to ameliorate diverse metabolic complications. <i>Pharmacological Research</i> , 2020, 158, 104867.	7.1	44
28	Effect of Rooibos ( <i>Aspalathus linearis</i> ) extract on atorvastatin-induced toxicity in C3A liver cells. <i>Journal of Cellular Physiology</i> , 2020, 235, 9487-9496.	4.1	8
29	Isorientin ameliorates lipid accumulation by regulating fat browning in palmitate-exposed 3T3-L1 adipocytes. <i>Metabolism Open</i> , 2020, 6, 100037.	2.9	13
30	Model development for predicting <i>in vitro</i> bio-capacity of green rooibos extract based on composition for application as screening tool in quality control. <i>Food and Function</i> , 2020, 11, 3084-3094.	4.6	7
31	Exploring the Comparative Efficacy of Metformin and Resveratrol in the Management of Diabetes-Associated Complications: A Systematic Review of Preclinical Studies. <i>Nutrients</i> , 2020, 12, 739.	4.1	21
32	Fermented rooibos extract attenuates hyperglycemia-induced myocardial oxidative damage by improving mitochondrial energetics and intracellular antioxidant capacity. <i>South African Journal of Botany</i> , 2020, 131, 143-150.	2.5	12
33	Aspalathin Protects Insulin-Producing $\beta$ Cells against Glucotoxicity and Oxidative Stress-Induced Cell Death. <i>Molecular Nutrition and Food Research</i> , 2020, 64, e1901009.	3.3	26
34	Herbal supplements interactions with oral oestrogen-based contraceptive metabolism and transport. <i>Phytotherapy Research</i> , 2020, 34, 1519-1529.	5.8	4
35	Aspalathin-rich green <i>Aspalathus linearis</i> extract suppresses migration and invasion of human castration-resistant prostate cancer cells via inhibition of YAP signaling. <i>Phytomedicine</i> , 2020, 69, 153210.	5.3	12
36	Impact of Isorientin on Metabolic Activity and Lipid Accumulation in Differentiated Adipocytes. <i>Molecules</i> , 2020, 25, 1773.	3.8	13

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37	The Combination Effect of Aspalathin and Phenylpyruvic Acid-2-O- $\beta$ -D-glucoside from Rooibos against Hyperglycemia-Induced Cardiac Damage: An In Vitro Study. <i>Nutrients</i> , 2020, 12, 1151.	4.1	13
38	The impact of coenzyme Q <sub>10</sub> on metabolic and cardiovascular disease profiles in diabetic patients: A systematic review and meta-analysis of randomized controlled trials. <i>Endocrinology, Diabetes and Metabolism</i> , 2020, 3, e00118.	2.4	24
39	In vitro Characterization of Insulin-Producing $\beta$ -Cell Spheroids. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 623889.	3.7	6
40	Rooibos suppresses proliferation of castration-resistant prostate cancer cells via inhibition of Akt signaling. <i>Phytomedicine</i> , 2019, 64, 153068.	5.3	15
41	Pharmacokinetic Interaction of Green Rooibos Extract With Atorvastatin and Metformin in Rats. <i>Frontiers in Pharmacology</i> , 2019, 10, 1243.	3.5	12
42	Adipose tissue as a possible therapeutic target for polyphenols: A case for Cyclopia extracts as anti-obesity nutraceuticals. <i>Biomedicine and Pharmacotherapy</i> , 2019, 120, 109439.	5.6	24
43	Aspalathin-Enriched Green Rooibos Extract Reduces Hepatic Insulin Resistance by Modulating PI3K/AKT and AMPK Pathways. <i>International Journal of Molecular Sciences</i> , 2019, 20, 633.	4.1	56
44	Aspalathin, a natural product with the potential to reverse hepatic insulin resistance by improving energy metabolism and mitochondrial respiration. <i>PLoS ONE</i> , 2019, 14, e0216172.	2.5	30
45	Aspalathin-Rich Green Rooibos Extract Lowers LDL-Cholesterol and Oxidative Status in High-Fat Diet-Induced Diabetic Vervet Monkeys. <i>Molecules</i> , 2019, 24, 1713.	3.8	22
46	Human immunodeficiency virus in cadavers: A review. <i>Clinical Anatomy</i> , 2019, 32, 603-610.	2.7	9
47	An In Vitro Study on the Combination Effect of Metformin and N-Acetyl Cysteine against Hyperglycaemia-Induced Cardiac Damage. <i>Nutrients</i> , 2019, 11, 2850.	4.1	9
48	Lanosteryl triterpenes from <i>Protorhus longifolia</i> as a cardioprotective agent: a mini review. <i>Heart Failure Reviews</i> , 2019, 24, 155-166.	3.9	4
49	Aspalathin ameliorates doxorubicin-induced oxidative stress in H9c2 cardiomyoblasts. <i>Toxicology in Vitro</i> , 2019, 55, 134-139.	2.4	24
50	Aspalathin from Rooibos ( <i>Aspalathus linearis</i> ): A Bioactive C-glucosyl Dihydrochalcone with Potential to Target the Metabolic Syndrome. <i>Planta Medica</i> , 2018, 84, 568-583.	1.3	56
51	Critical evaluation of causality assessment of herb-drug interactions in patients. <i>British Journal of Clinical Pharmacology</i> , 2018, 84, 679-693.	2.4	101
52	Potential of rooibos, its major C-glucosyl flavonoids, and Z-2-( $\beta$ -D-glucopyranosyloxy)-3-phenylpropenoic acid in prevention of metabolic syndrome. <i>Critical Reviews in Food Science and Nutrition</i> , 2018, 58, 227-246.	10.3	60
53	Polyphenol-Enriched Fractions of <i>Cyclopia intermedia</i> Selectively Affect Lipogenesis and Lipolysis in 3T3-L1 Adipocytes. <i>Planta Medica</i> , 2018, 84, 100-110.	1.3	14
54	Cyclopia Extracts Enhance Th1-, Th2-, and Th17-type T Cell Responses and Induce Foxp3+ Cells in Murine Cell Culture. <i>Planta Medica</i> , 2018, 84, 311-319.	1.3	15

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55	A dose-dependent effect of dimethyl sulfoxide on lipid content, cell viability and oxidative stress in 3T3-L1 adipocytes. <i>Toxicology Reports</i> , 2018, 5, 1014-1020.	3.3	60
56	Intestinal transport and absorption of bioactive phenolic compounds from a chemically characterized aqueous extract of <i>Athrixia phylicoides</i> . <i>Journal of Ethnopharmacology</i> , 2017, 200, 45-50.	4.1	12
57	Age-dependent development of left ventricular wall thickness in type 2 diabetic (db/db) mice is associated with elevated low-density lipoprotein and triglyceride serum levels. <i>Heart and Vessels</i> , 2017, 32, 1025-1031.	1.2	12
58	Green Rooibos Extract improves plasma lipid profile and oxidative status in diabetic non-human primates. <i>Free Radical Biology and Medicine</i> , 2017, 108, S97.	2.9	3
59	Aspalathin Reverts Doxorubicin-Induced Cardiotoxicity through Increased Autophagy and Decreased Expression of p53/mTOR/p62 Signaling. <i>Molecules</i> , 2017, 22, 1589.	3.8	45
60	The Transcription Profile Unveils the Cardioprotective Effect of Aspalathin against Lipid Toxicity in an In Vitro H9c2 Model. <i>Molecules</i> , 2017, 22, 219.	3.8	40
61	Intestinal Transport Characteristics and Metabolism of C-Glucosyl Dihydrochalcone, Aspalathin. <i>Molecules</i> , 2017, 22, 554.	3.8	12
62	Aspalathin Protects the Heart against Hyperglycemia-Induced Oxidative Damage by Up-Regulating Nrf2 Expression. <i>Molecules</i> , 2017, 22, 129.	3.8	64
63	Hyperglycemia-induced oxidative stress and heart disease-cardioprotective effects of rooibos flavonoids and phenylpyruvic acid-2-O-β-D-glucoside. <i>Nutrition and Metabolism</i> , 2017, 14, 45.	3.0	78
64	Inhibitory Interactions of <i>Aspalathus linearis</i> (Rooibos) Extracts and Compounds, Aspalathin and Z-2-(β-D-Glucopyranosyloxy)-3-phenylpropenoic Acid, on Cytochromes Metabolizing Hypoglycemic and Hypolipidemic Drugs. <i>Molecules</i> , 2016, 21, 1515.	3.8	29
65	Phenylpyruvic Acid-2-O-β-D-Glucoside Attenuates High Glucose-Induced Apoptosis in H9c2 Cardiomyocytes. <i>Planta Medica</i> , 2016, 82, 1468-1474.	1.3	20
66	Aspalathin, a dihydrochalcone C-glycoside, protects H9c2 cardiomyocytes against high glucose induced shifts in substrate preference and apoptosis. <i>Molecular Nutrition and Food Research</i> , 2016, 60, 922-934.	3.3	70
67	Assessing similarity analysis of chromatographic fingerprints of <i>Cyclopia subternata</i> extracts as potential screening tool for in vitro glucose utilisation. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 639-649.	3.7	29
68	Expression of UCP2 in Wistar rats varies according to age and the severity of obesity. <i>Journal of Physiology and Biochemistry</i> , 2016, 72, 25-32.	3.0	17
69	Aspalathin improves glucose and lipid metabolism in 3T3-L1 adipocytes exposed to palmitate. <i>Molecular Nutrition and Food Research</i> , 2015, 59, 2199-2208.	3.3	60
70	Beta Cell Mass Restoration in Alloxan-Diabetic Mice Treated with EGF and Gastrin. <i>PLoS ONE</i> , 2015, 10, e0140148.	2.5	27
71	Herbal hepatotoxicity: current status, examples, and challenges. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2015, 11, 1551-1565.	3.3	41
72	Regulating the Beta Cell Mass as a Strategy for Type-2 Diabetes Treatment. <i>Current Drug Targets</i> , 2015, 16, 516-524.	2.1	26

