

Rabia Johnson

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

2,148
citations

257101

24
h-index

253896

43
g-index

76
all docs

76
docs citations

76
times ranked

2929
citing authors

#	ARTICLE	IF	CITATIONS
1	Reinfection and Mixed Infection Cause Changing Mycobacterium tuberculosis Drug-Resistance Patterns. American Journal of Respiratory and Critical Care Medicine, 2005, 172, 636-642.	2.5	173
2	Polyphenols, autophagy and doxorubicin-induced cardiotoxicity. Life Sciences, 2017, 180, 160-170.	2.0	105
3	The effect of adiponectin in the pathogenesis of non-alcoholic fatty liver disease (NAFLD) and the potential role of polyphenols in the modulation of adiponectin signaling. Biomedicine and Pharmacotherapy, 2020, 131, 110785.	2.5	80
4	Hyperglycemia-induced oxidative stress and heart disease-cardioprotective effects of rooibos flavonoids and phenylpyruvic acid-2-O-β-D-glucoside. Nutrition and Metabolism, 2017, 14, 45.	1.3	78
5	Amelioration of palmitate-induced insulin resistance in C2C12 muscle cells by rooibos (Aspalathus linearis) C-glycoside. Molecular Nutrition and Food Research, 2016, 60, 922-934.	1.5	70
6	Aspalathin, a dihydrochalcone C-glycoside, protects H9c2 cardiomyocytes against high glucose induced shifts in substrate preference and apoptosis. Molecular Nutrition and Food Research, 2016, 60, 922-934.	1.5	70
7	Aspalathin Protects the Heart against Hyperglycemia-Induced Oxidative Damage by Up-Regulating Nrf2 Expression. Molecules, 2017, 22, 129.	1.7	64
8	Aspalathin improves glucose and lipid metabolism in 3T3-L1 adipocytes exposed to palmitate. Molecular Nutrition and Food Research, 2015, 59, 2199-2208.	1.5	60
9	A dose-dependent effect of dimethyl sulfoxide on lipid content, cell viability and oxidative stress in 3T3-L1 adipocytes. Toxicology Reports, 2018, 5, 1014-1020.	1.6	60
10	Aspalathin from Rooibos (Aspalathus linearis): A Bioactive C-glycosyl Dihydrochalcone with Potential to Target the Metabolic Syndrome. Planta Medica, 2018, 84, 568-583.	0.7	56
11	Blood-Based DNA Methylation Biomarkers for Type 2 Diabetes: Potential for Clinical Applications. Frontiers in Endocrinology, 2018, 9, 744.	1.5	56
12	Aspalathin-Enriched Green Rooibos Extract Reduces Hepatic Insulin Resistance by Modulating PI3K/AKT and AMPK Pathways. International Journal of Molecular Sciences, 2019, 20, 633.	1.8	56
13	The cardioprotective effect of an aqueous extract of fermented rooibos (Aspalathus linearis) on cultured cardiomyocytes derived from diabetic rats. Phytomedicine, 2014, 21, 595-601.	2.3	51
14	Effects of fermented rooibos (Aspalathus linearis) on adipocyte differentiation. Phytomedicine, 2014, 21, 109-117.	2.3	50
15	A Systematic Review on the Protective Effect of N-Acetyl Cysteine Against Diabetes-Associated Cardiovascular Complications. American Journal of Cardiovascular Drugs, 2018, 18, 283-298.	1.0	50
16	Ethambutol resistance testing by mutation detection. International Journal of Tuberculosis and Lung Disease, 2006, 10, 68-73.	0.6	49
17	Aspalathin Reverts Doxorubicin-Induced Cardiotoxicity through Increased Autophagy and Decreased Expression of p53/mTOR/p62 Signaling. Molecules, 2017, 22, 1589.	1.7	45
18	Clonal Expansion of a Globally Disseminated Lineage of Mycobacterium tuberculosis with Low IS 6110 Copy Numbers. Journal of Clinical Microbiology, 2004, 42, 5774-5782.	1.8	42

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19	The Transcription Profile Unveils the Cardioprotective Effect of Aspalathin against Lipid Toxicity in an In Vitro H9c2 Model. <i>Molecules</i> , 2017, 22, 219.	1.7	40
20	Diet-induced hypothalamic dysfunction and metabolic disease, and the therapeutic potential of polyphenols. <i>Molecular Metabolism</i> , 2019, 27, 1-10.	3.0	34
21	Molecular insights into the pathophysiology of doxorubicin-induced cardiotoxicity: a graphical representation. <i>Archives of Toxicology</i> , 2022, 96, 1541-1550.	1.9	34
22	N-Acetyl Cysteine Targets Hepatic Lipid Accumulation to Curb Oxidative Stress and Inflammation in NAFLD: A Comprehensive Analysis of the Literature. <i>Antioxidants</i> , 2020, 9, 1283.	2.2	31
23	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.	1.1	30
24	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.	1.8	30
25	Intestinal Barrier Function and Immune Homeostasis Are Missing Links in Obesity and Type 2 Diabetes Development. <i>Frontiers in Endocrinology</i> , 2021, 12, 833544.	1.5	28
26	Qualitative and quantitative detection of SARS-CoV-2 RNA in untreated wastewater in Western Cape Province, South Africa. <i>South African Medical Journal</i> , 2021, 111, 198.	0.2	27
27	Tracking the circulating SARS-CoV-2 variant of concern in South Africa using wastewater-based epidemiology. <i>Scientific Reports</i> , 2022, 12, 1182.	1.6	27
28	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.	1.2	26
29	Aspalathin ameliorates doxorubicin-induced oxidative stress in H9c2 cardiomyoblasts. <i>Toxicology in Vitro</i> , 2019, 55, 134-139.	1.1	24
30	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.	1.7	23
31	Protective effect of triterpenes against diabetes-induced β -cell damage: An overview of in vitro and in vivo studies. <i>Pharmacological Research</i> , 2018, 137, 179-192.	3.1	22
32	Cardioprotective potential of N-acetyl cysteine against hyperglycaemia-induced oxidative damage: a protocol for a systematic review. <i>Systematic Reviews</i> , 2017, 6, 96.	2.5	21
33	N-Acetyl cysteine ameliorates hyperglycemia-induced cardiomyocyte toxicity by improving mitochondrial energetics and enhancing endogenous Coenzyme Q9/10 levels. <i>Toxicology Reports</i> , 2019, 6, 1240-1245.	1.6	21
34	The Prophylactic Effect of Pinocembrin Against Doxorubicin-Induced Cardiotoxicity in an In Vitro H9c2 Cell Model. <i>Frontiers in Pharmacology</i> , 2020, 11, 1172.	1.6	21
35	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.	1.7	21
36	Phenylpyruvic Acid-2-O- β -D-Glucoside Attenuates High Glucose-Induced Apoptosis in H9c2 Cardiomyocytes. <i>Planta Medica</i> , 2016, 82, 1468-1474.	0.7	20

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37	Linking LOXL2 to Cardiac Interstitial Fibrosis. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5913.	1.8	17
38	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.	1.2	16
39	Aspalathin, a C-glucosyl Dihydrochalcone From Rooibos Improves the Hypoglycemic Potential of Metformin in Type 2 Diabetic (db/db) Mice. <i>Physiological Research</i> , 2018, 67, 813-818.	0.4	15
40	Diet-induced DNA methylation within the hypothalamic arcuate nucleus and dysregulated leptin and insulin signaling in the pathophysiology of obesity. <i>Food Science and Nutrition</i> , 2019, 7, 3131-3145.	1.5	14
41	Pharmacogenomics of amlodipine and hydrochlorothiazide therapy and the quest for improved control of hypertension: a mini review. <i>Heart Failure Reviews</i> , 2019, 24, 343-357.	1.7	13
42	The Combination Effect of Aspalathin and Phenylpyruvic Acid-2-O-β-d-glucoside from Rooibos against Hyperglycemia-Induced Cardiac Damage: An In Vitro Study. <i>Nutrients</i> , 2020, 12, 1151.	1.7	13
43	The Implication of Low Dose Dimethyl Sulfoxide on Mitochondrial Function and Oxidative Damage in Cultured Cardiac and Cancer Cells. <i>Molecules</i> , 2021, 26, 7305.	1.7	13
44	Prevention of Anthracycline-Induced Cardiotoxicity: The Good and Bad of Current and Alternative Therapies. <i>Frontiers in Cardiovascular Medicine</i> , 0, 9, .	1.1	13
45	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.	0.5	12
46	Myocardial Glucose Clearance by Aspalathin Treatment in Young, Mature, and Obese Insulin-Resistant Rats. <i>Planta Medica</i> , 2018, 84, 75-82.	0.7	12
47	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.	1.2	12
48	Hypertension in African Populations: Review and Computational Insights. <i>Genes</i> , 2021, 12, 532.	1.0	12
49	Molecular basis of the anti-hyperglycemic activity of RA-3 in hyperlipidemic and streptozotocin-induced type 2 diabetes in rats. <i>Diabetology and Metabolic Syndrome</i> , 2019, 11, 27.	1.2	11
50	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.	1.7	9
51	Identification of potential biomarkers for predicting the early onset of diabetic cardiomyopathy in a mouse model. <i>Scientific Reports</i> , 2020, 10, 12352.	1.6	9
52	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.	1.1	8
53	Drug susceptibility testing using molecular techniques can enhance tuberculosis diagnosis. <i>Journal of Infection in Developing Countries</i> , 2008, 2, 40-5.	0.5	8
54	In Utero One-Carbon Metabolism Interplay and Metabolic Syndrome in Cardiovascular Disease Risk Reduction. <i>Molecular Nutrition and Food Research</i> , 2020, 64, e1900377.	1.5	7

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55	The triterpene, methyl-3 β -hydroxylanosta-9,24-dien-21-oate (RA3), attenuates high glucose-induced oxidative damage and apoptosis by improving energy metabolism. <i>Phytomedicine</i> , 2021, 85, 153546.	2.3	5
56	Cardioprotective Function of Green Rooibos (<i>Aspalathus linearis</i>) Extract Supplementation in Ex Vivo Ischemic Prediabetic Rat Hearts. <i>Planta Medica</i> , 2020, 88, .	0.7	5
57	Methylenetetrahydrofolate Reductase Polymorphism (rs1801133) and the Risk of Hypertension among African Populations: A Narrative Synthesis of Literature. <i>Genes</i> , 2022, 13, 631.	1.0	5
58	A Lanosteryl triterpene from <i>Protorhus longifolia</i> augments insulin signaling in type 1 diabetic rats. <i>BMC Complementary and Alternative Medicine</i> , 2018, 18, 265.	3.7	4
59	Lanosteryl triterpenes from <i>Protorhus longifolia</i> as a cardioprotective agent: a mini review. <i>Heart Failure Reviews</i> , 2019, 24, 155-166.	1.7	4
60	Socio-demographic and modifiable risk factors of diabetes and hypertension among resource constrained patients from rural areas in Mdantsane Township in South Africa. <i>African Health Sciences</i> , 2020, 20, 1344-1354.	0.3	3
61	Cafeteria diet induces global and <i>Slc27a3</i> -specific hypomethylation in male Wistar rats. <i>Adipocyte</i> , 2021, 10, 108-118.	1.3	3
62	COVID-19 vaccine roll-out in South Africa: The added value of wastewater surveillance for SARS-CoV-2. <i>South African Medical Journal</i> , 2021, 111, 524.	0.2	3
63	Genetic association of solute carrier transporter gene variants with metformin response. <i>Balkan Journal of Medical Genetics</i> , 2021, 24, 47-56.	0.5	3
64	Evaluation of the suitability of 19 pharmacogenomics biomarkers for individualized metformin therapy for type 2 diabetes patients. <i>Drug Metabolism and Personalized Therapy</i> , 2021, .	0.3	2
65	A phenylpropenoic acid glucoside (PPAG) of <i>Aspalathus linearis</i> protects H9c2 cardiomyocytes against hyperglycemia-induced cell apoptosis. <i>Planta Medica</i> , 2015, 81, .	0.7	1
66	<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.	1.2	1
67	Evaluation of the suitability of 19 pharmacogenomics biomarkers for individualized metformin therapy for type 2 diabetes patients. <i>Drug Metabolism and Drug Interactions</i> , 2020, 35, .	0.3	1
68	Transmission Dynamics of MDR-TB and XDR-TB in Areas of Varying HIV Prevalence. <i>International Journal of Infectious Diseases</i> , 2008, 12, e45-e46.	1.5	0
69	Insight Into The Molecular Basis Of The Anti-Hyperglycemic Activity Of RA3 In Type 2 Diabetic Rats And Its Cardioprotective Potential In Cultured Cardiomyoblasts. <i>Metabolism: Clinical and Experimental</i> , 2021, 116, 154646.	1.5	0
70	Cross-sectional study of the association of 5 single nucleotide polymorphisms with enalapril treatment response among South African adults with hypertension. <i>Medicine (United States)</i> , 2021, 100, e27836.	0.4	0
71	Promoter haplotype structure of solute carrier 22 member 2 (SLC22A2) in the Xhosa population of South Africa and their differential effect on gene expression. <i>Gene</i> , 2022, 820, 146292.	1.0	0