

# 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	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
2	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
3	Molecular insights into the pathophysiology of doxorubicin-induced cardiotoxicity: a graphical representation. <i>Archives of Toxicology</i> , 2022, 96, 1541-1550.	1.9	34
4	Sclerocarya birrea (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
5	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
6	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
7	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
8	Cafeteria diet induces global and <i>Slc27a3</i> -specific hypomethylation in male Wistar rats. <i>Adipocyte</i> , 2021, 10, 108-118.	1.3	3
9	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
10	Hypertension in African Populations: Review and Computational Insights. <i>Genes</i> , 2021, 12, 532.	1.0	12
11	The triterpene, methyl-3 $\beta$ -hydroxyolanosta-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
12	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
13	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
14	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
15	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
16	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
17	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
18	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

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19	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
20	In Utero Oneâ€Carbon Metabolism Interplay and Metabolic Syndrome in Cardiovascular Disease Risk Reduction. <i>Molecular Nutrition and Food Research</i> , 2020, 64, e1900377.	1.5	7
21	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
22	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
23	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
24	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
25	Linking LOXL2 to Cardiac Interstitial Fibrosis. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5913.	1.8	17
26	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
27	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. <i>Biomedicine and Pharmacotherapy</i> , 2020, 131, 110785.	2.5	80
28	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
29	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
30	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
31	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.	1.7	13
32	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
33	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
34	Diet-induced hypothalamic dysfunction and metabolic disease, and the therapeutic potential of polyphenols. <i>Molecular Metabolism</i> , 2019, 27, 1-10.	3.0	34
35	Dietâ€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
36	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.	1.8	56

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37	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
38	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
39	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
40	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
41	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
42	Aspalathin ameliorates doxorubicin-induced oxidative stress in H9c2 cardiomyoblasts. <i>Toxicology in Vitro</i> , 2019, 55, 134-139.	1.1	24
43	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
44	A Systematic Review on the Protective Effect of N-Acetyl Cysteine Against Diabetes-Associated Cardiovascular Complications. <i>American Journal of Cardiovascular Drugs</i> , 2018, 18, 283-298.	1.0	50
45	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.	0.7	56
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	Blood-Based DNA Methylation Biomarkers for Type 2 Diabetes: Potential for Clinical Applications. <i>Frontiers in Endocrinology</i> , 2018, 9, 744.	1.5	56
48	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
49	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.	1.6	60
50	Protective effect of triterpenes against diabetes-induced $\beta^2$ -cell damage: An overview of in vitro and in vivo studies. <i>Pharmacological Research</i> , 2018, 137, 179-192.	3.1	22
51	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
52	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
53	Polyphenols, autophagy and doxorubicin-induced cardiotoxicity. <i>Life Sciences</i> , 2017, 180, 160-170.	2.0	105
54	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

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55	Aspalathin Reverts Doxorubicin-Induced Cardiotoxicity through Increased Autophagy and Decreased Expression of p53/mTOR/p62 Signaling. <i>Molecules</i> , 2017, 22, 1589.	1.7	45
56	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
57	Aspalathin Protects the Heart against Hyperglycemia-Induced Oxidative Damage by Up-Regulating Nrf2 Expression. <i>Molecules</i> , 2017, 22, 129.	1.7	64
58	Hyperglycemia-induced oxidative stress and heart disease-cardioprotective effects of rooibos flavonoids and phenylpyruvic acid-2-O- $\beta$ -D-glucoside. <i>Nutrition and Metabolism</i> , 2017, 14, 45.	1.3	78
59	Phenylpyruvic Acid-2-O- $\beta$ -D-Glucoside Attenuates High Glucose-Induced Apoptosis in H9c2 Cardiomyocytes. <i>Planta Medica</i> , 2016, 82, 1468-1474.	0.7	20
60	Aspalathin, a dihydrochalcone $\beta$ -glucoside, protects H9c2 cardiomyocytes against high glucose induced shifts in substrate preference and apoptosis. <i>Molecular Nutrition and Food Research</i> , 2016, 60, 922-934.	1.5	70
61	Aspalathin improves glucose and lipid metabolism in 3T3L1 adipocytes exposed to palmitate. <i>Molecular Nutrition and Food Research</i> , 2015, 59, 2199-2208.	1.5	60
62	A phenylpropanoic 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
63	The cardioprotective effect of an aqueous extract of fermented rooibos ( <i>Aspalathus linearis</i> ) on cultured cardiomyocytes derived from diabetic rats. <i>Phytomedicine</i> , 2014, 21, 595-601.	2.3	51
64	Effects of fermented rooibos ( <i>Aspalathus linearis</i> ) on adipocyte differentiation. <i>Phytomedicine</i> , 2014, 21, 109-117.	2.3	50
65	Amelioration of palmitate-induced insulin resistance in C2C12 muscle cells by rooibos ( <i>Aspalathus linearis</i> ) aqueous extract. <i>Phytomedicine</i> , 2014, 21, 118-124.	2.3	47
66	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
67	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
68	Ethambutol resistance testing by mutation detection. <i>International Journal of Tuberculosis and Lung Disease</i> , 2006, 10, 68-73.	0.6	49
69	Reinfection and Mixed Infection Cause Changing <i>Mycobacterium tuberculosis</i> Drug-Resistance Patterns. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2005, 172, 636-642.	2.5	173
70	Clonal Expansion of a Globally Disseminated Lineage of <i>Mycobacterium tuberculosis</i> with Low IS 6110 Copy Numbers. <i>Journal of Clinical Microbiology</i> , 2004, 42, 5774-5782.	1.8	42
71	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