

# Megan J Bester

## List of Publications by Year in descending order

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Version: 2024-02-01

63  
papers

1,428  
citations

361413

20  
h-index

361022

35  
g-index

65  
all docs

65  
docs citations

65  
times ranked

1735  
citing authors

#	ARTICLE	IF	CITATIONS
1	Antifungal activity and mode of action of synthetic peptides derived from the tick OsDef2 defensin. <i>Journal of Peptide Science</i> , 2022, 28, e3383.	1.4	4
2	Stability, Morphology, and Effects of In Vitro Digestion on the Antioxidant Properties of Polyphenol Inclusion Complexes with $\beta$ -Cyclodextrin. <i>Molecules</i> , 2022, 27, 3808.	3.8	5
3	In-silico reverse docking and in-vitro studies identified curcumin, 18 $\beta$ -glycyrrhetic acid, rosmarinic acid, and quercetin as inhibitors of $\alpha$ -glucosidase and pancreatic $\alpha$ -amylase and lipid accumulation in HepG2 cells, important type 2 diabetes targets. <i>Journal of Molecular Structure</i> , 2022, 1266, 133492.	3.6	10
4	Inhibition of $\alpha$ -glucosidase and $\alpha$ -amylase by herbal compounds for the treatment of type 2 diabetes: A validation of in silico reverse docking with in vitro enzyme assays. <i>Journal of Diabetes</i> , 2021, 13, 779-791.	1.8	16
5	Adverse cardiovascular effects of exposure to cadmium and mercury alone and in combination on the cardiac tissue and aorta of Sprague-Dawley rats. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2021, 56, 609-624.	1.7	9
6	Hydrothermal Processing and In Vitro Simulated Human Digestion Affects the Bioaccessibility and Bioactivity of Phenolic Compounds in African Pumpkin ( <i>Momordica balsamina</i> ) Leaves. <i>Molecules</i> , 2021, 26, 5201.	3.8	2
7	Antioxidant properties and inhibition of lipid formation in 3T3-L1 adipocytes of in vitro digested mageu, a commercial sample. <i>Journal of Food Biochemistry</i> , 2021, 45, e13929.	2.9	0
8	Effect of simulated in vitro upper gut digestion of processed cowpea beans on phenolic composition, antioxidant properties and cellular protection. <i>Food Research International</i> , 2021, 150, 110750.	6.2	4
9	New Antidiabetic Targets of $\alpha$ -Glucosidase Inhibitory Peptides, SVPA, SEPA, STYV and STY: Inhibitory Effects on Dipeptidyl Peptidase-IV and Lipid Accumulation in 3T3-L1 Differentiated Adipocytes with Scavenging Activities Against Methylglyoxal and Reactive Oxygen Species. <i>International Journal of Peptide Research and Therapeutics</i> , 2020, 26, 1949-1963.	1.9	4
10	Ultrastructural alterations of whole blood by copper, manganese and mercury metal mixtures using a chronic in vivo model of coagulation. <i>Environmental Toxicology and Pharmacology</i> , 2020, 75, 103314.	4.0	3
11	The dipeptidyl peptidase IV inhibitory activity and multifunctional antidiabetic properties of SQSPA: Structure-Activity relationship evaluated with alanine scanning. <i>International Journal of Biological Macromolecules</i> , 2020, 160, 1220-1229.	7.5	2
12	Induction of hepatic portal fibrosis, mitochondria damage, and extracellular vesicle formation in Sprague-Dawley rats exposed to copper, manganese, and mercury, alone and in combination. <i>Ultrastructural Pathology</i> , 2020, 44, 182-192.	0.9	11
13	Antimicrobial function of short amidated peptide fragments from the tick-derived OsDef2 defensin. <i>Journal of Peptide Science</i> , 2019, 25, e3223.	1.4	4
14	Oral exposure to cadmium and mercury alone and in combination causes damage to the lung tissue of Sprague-Dawley rats. <i>Environmental Toxicology and Pharmacology</i> , 2019, 69, 86-94.	4.0	37
15	The dual functionality of antimicrobial peptides Os and Os $\beta$ in human leukocytes. <i>Journal of Peptide Science</i> , 2019, 25, e3156.	1.4	9
16	Oxidative and haemostatic effects of copper, manganese and mercury, alone and in combination at physiologically relevant levels: An ex vivo study. <i>Human and Experimental Toxicology</i> , 2019, 38, 419-433.	2.2	22
17	Multiple antidiabetic effects of three $\alpha$ -glucosidase inhibitory peptides, PFP, YPL and YPG: Dipeptidyl peptidase-IV inhibition, suppression of lipid accumulation in differentiated 3T3-L1 adipocytes and scavenging activity on methylglyoxal. <i>International Journal of Biological Macromolecules</i> , 2019, 122, 104-114.	7.5	17
18	Tuber Storage Proteins as Potential Precursors of Bioactive Peptides: An In Silico Analysis. <i>International Journal of Peptide Research and Therapeutics</i> , 2019, 25, 437-446.	1.9	21

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19	Structure - Function Analysis of Peptide Analogs of SQSPA with Respect to $\alpha$ -glucosidase and $\alpha$ -amylase Inhibition. <i>Protein and Peptide Letters</i> , 2019, 26, 403-413.	0.9	3
20	Rooibos tea extracts inhibit osteoclast formation and activity through the attenuation of NF- $\kappa$ B activity in RAW264.7 murine macrophages. <i>Food and Function</i> , 2018, 9, 3301-3312.	4.6	12
21	Beneficial effects of folic acid on the kidneys and testes of adult albino rats after exposure to methomyl. <i>Toxicology Research</i> , 2018, 7, 480-491.	2.1	15
22	Structural properties of bioactive peptides with $\alpha$ -glucosidase inhibitory activity. <i>Chemical Biology and Drug Design</i> , 2018, 91, 370-379.	3.2	70
23	Rational in silico design of novel $\alpha$ -glucosidase inhibitory peptides and in vitro evaluation of promising candidates. <i>Biomedicine and Pharmacotherapy</i> , 2018, 107, 234-242.	5.6	57
24	Effects of metals cadmium and chromium alone and in combination on the liver and kidney tissue of male Sprague-Dawley rats: An ultrastructural and electron energy loss spectroscopy investigation. <i>Microscopy Research and Technique</i> , 2017, 80, 878-888.	2.2	26
25	Effects of chronic exposure to mercury and cadmium alone and in combination on the coagulation system of Sprague-Dawley rats. <i>Ultrastructural Pathology</i> , 2017, 41, 275-283.	0.9	21
26	Phenolic composition and antioxidant properties of koose, a deep-fat fried cowpea cake. <i>Food Chemistry</i> , 2017, 237, 247-256.	8.2	22
27	Exploring the anti-proliferative activity of <i>Pelargonium sidoides</i> DC with in silico target identification and network pharmacology. <i>Molecular Diversity</i> , 2017, 21, 809-820.	3.9	12
28	Antioxidant and anti-inflammatory properties of <i>Ilex guayusa</i> tea preparations: a comparison to <i>Camellia sinensis</i> teas. <i>Food and Function</i> , 2017, 8, 4601-4610.	4.6	30
29	Ultrastructural, Confocal and Viscoelastic Characteristics of Whole Blood and Plasma After Exposure to Cadmium and Chromium Alone and in Combination: An Ex Vivo Study. <i>Cellular Physiology and Biochemistry</i> , 2017, 43, 1288-1300.	1.6	13
30	Generation of reactive oxygen species in relevant cell lines as a bio-indicator of oxidative effects caused by acid mine water. <i>Water S A</i> , 2017, 43, 166.	0.4	2
31	Anti-inflammatory and anti-endotoxin properties of peptides derived from the carboxy-terminal region of a defensin from the tick <i>Ornithodoros savignyi</i> . <i>Journal of Peptide Science</i> , 2016, 22, 43-51.	1.4	19
32	Anti-proliferative properties of commercial <i>Pelargonium sidoides</i> tincture, with cell-cycle G <sub>0</sub> /G <sub>1</sub> arrest and apoptosis in Jurkat leukaemia cells. <i>Pharmaceutical Biology</i> , 2016, 54, 1831-1840.	2.9	13
33	How methylglyoxal kills bacteria: An ultrastructural study. <i>Ultrastructural Pathology</i> , 2016, 40, 107-111.	0.9	44
34	Sorghum-cowpea composite porridge as a functional food, Part II: Antioxidant properties as affected by simulated in vitro gastrointestinal digestion. <i>Food Chemistry</i> , 2016, 197, 307-315.	8.2	53
35	A descriptive study to provide evidence of the teratogenic and cellular effects of sibutramine and ephedrine on cardiac and liver tissue of chick embryos. <i>Microscopy Research and Technique</i> , 2015, 78, 737-746.	2.2	2
36	Premature Collagen Fibril Formation, Fibroblast-Mast Cell Interactions and Mast Cell-Mediated Phagocytosis of Collagen in Keloids. <i>Ultrastructural Pathology</i> , 2015, 39, 95-103.	0.9	30

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37	Investigation into the mechanism of action of the antimicrobial peptides Os and Os-C derived from a tick defensin. <i>Peptides</i> , 2015, 71, 179-187.	2.4	24
38	Sibutramine, a serotonin/norepinephrine reuptake inhibitor, causes fibrosis in rats. <i>Environmental Toxicology and Pharmacology</i> , 2015, 40, 71-76.	4.0	8
39	An investigation into the hepatotoxicity of cadmium and chromium evaluated with light- and transmission electron microscopy and electron energy-loss spectroscopy. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2015, 50, 830-838.	1.7	12
40	Activity-guided isolation and identification of the major antioxidant and anticancer compounds from a commercial <i>Pelargonium sidoides</i> tincture. <i>Medicinal Chemistry Research</i> , 2015, 24, 3838-3852.	2.4	7
41	The Effect of Sibutramine, a Serotonin-Norepinephrine Reuptake Inhibitor, on Platelets and Fibrin Networks of Male Sprague-Dawley Rats: A Descriptive Study. <i>Ultrastructural Pathology</i> , 2014, 38, 399-405.	0.9	6
42	Effect of Acidic Condition on Phenolic Composition and Antioxidant Potential of Aqueous Extracts from Sorghum ( <i>Sorghum Bicolor</i> ) Bran. <i>Journal of Food Biochemistry</i> , 2014, 38, 110-118.	2.9	16
43	Phenolic Composition and Bioactive Properties of Cell Wall Preparations and Whole Grains of Selected Cereals and Legumes. <i>Journal of Food Biochemistry</i> , 2014, 38, 62-72.	2.9	64
44	Does a sorghum/cowpea composite porridge hold promise for contributing to alleviating oxidative stress?. <i>Food Chemistry</i> , 2014, 157, 157-166.	8.2	33
45	An In Ovo Investigation of the Ultrastructural Effects of the Heavy Metals Cadmium and Chromium on Liver Tissue. <i>Microscopy and Microanalysis</i> , 2014, 20, 1312-1313.	0.4	1
46	Structural and functional characterization of peptides derived from the carboxy-terminal region of a defensin from the tick <i>Ornithodoros savignyi</i> . <i>Journal of Peptide Science</i> , 2013, 19, 325-332.	1.4	16
47	Feasibility of high pressure freezing with freeze substitution after long-term storage in chemical fixatives. <i>Microscopy Research and Technique</i> , 2013, 76, 942-946.	2.2	5
48	Rats on a High-energy Diet Showing No Weight Gain Present with Ultrastructural Changes Associated with Liver Fibrosis. <i>Ultrastructural Pathology</i> , 2013, 37, 267-272.	0.9	4
49	Characterisation of phenolic acids, flavonoids, proanthocyanidins and antioxidant activity of water extracts from seed coats of maramba bean [ <i>Tylosema esculentum</i> ] – an underutilised food legume. <i>International Journal of Food Science and Technology</i> , 2012, 47, 648-655.	2.7	20
50	Physicochemical properties, antioxidant activity and cellular protective effects of honeys from southern Africa. <i>Food Chemistry</i> , 2012, 133, 1544-1550.	8.2	51
51	Raw and cooked African green leafy vegetables have greater antioxidant and cellular protective properties than spinach. <i>FASEB Journal</i> , 2012, 26, 823.10.	0.5	0
52	Nutritional value of leafy vegetables of sub-Saharan Africa and their potential contribution to human health: A review. <i>Journal of Food Composition and Analysis</i> , 2010, 23, 499-509.	3.9	292
53	Effects of Mandrax and Cannabis on the cellular function of chick embryonic neurons. <i>Environmental Toxicology and Pharmacology</i> , 2007, 23, 82-88.	4.0	2
54	Effects of <i>Urginea sanguinea</i> , a traditional asthma remedy, on embryo neuronal development. <i>Journal of Ethnopharmacology</i> , 2006, 104, 315-321.	4.1	12

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55	Piracetam: its possible mode of action in children with learning disabilities and its effect on in vitro cell growth. <i>Early Child Development and Care</i> , 2006, 176, 285-298.	1.3	0
56	Animal Models Used for the Evaluation of Antiretroviral Therapies. <i>Current HIV Research</i> , 2006, 4, 431-446.	0.5	26
57	<i>Urginea sanguinea</i> : medicinal wonder or death in disguise?. <i>Environmental Toxicology and Pharmacology</i> , 2005, 20, 26-34.	4.0	22
58	Variability of post-methionine load plasma homocysteine assays. <i>Clinica Chimica Acta</i> , 2003, 330, 111-119.	1.1	12
59	An in vitro study of biological safety of condoms and their additives. <i>Human and Experimental Toxicology</i> , 2003, 22, 659-664.	2.2	7
60	Novel test and its automation for the determination of erythrocyte acetylcholinesterase and its application to organophosphate exposure. <i>Clinica Chimica Acta</i> , 2001, 303, 139-145.	1.1	19
61	Folate status, homocysteine metabolism, and methylene tetrahydrofolate reductase genotype in rural south african blacks with a history of pregnancy complicated by neural tube defects. <i>Metabolism: Clinical and Experimental</i> , 1999, 48, 269-274.	3.4	54
62	Spontaneous Oxidation of Methionine: Effect on the Quantification of Plasma Methionine Levels. <i>Analytical Biochemistry</i> , 1997, 248, 86-93.	2.4	39
63	Cholate and pH Reduce Interference by Sodium Dodecyl Sulfate in the Determination of DNA with Hoechst. <i>Analytical Biochemistry</i> , 1994, 223, 299-305.	2.4	52