

Advanced glycation end products accelerate rat vascular
RAGE/oxidative stress

BMC Cardiovascular Disorders

13, 13

DOI: [10.1186/1471-2261-13-13](https://doi.org/10.1186/1471-2261-13-13)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Advanced glycation end products as an upstream molecule triggers ROS-induced sFlt-1 production in extravillous trophoblasts: A novel bridge between oxidative stress and preeclampsia. <i>Placenta</i> , 2013, 34, 1177-1182.	0.7	37
2	Plasma levels of advanced glycation endproducts are associated with type 1 diabetes and coronary artery calcification. <i>Cardiovascular Diabetology</i> , 2013, 12, 149.	2.7	45
3	The Association between Fibroblast Growth Factor-23 and Vascular Calcification Is Mitigated by Inflammation Markers. <i>Nephron Extra</i> , 2013, 3, 106-112.	1.1	35
4	Elevated Protein Carbonylation, and Misfolding in Sciatic Nerve from db/db and Sod1 ^{-/-} Mice: Plausible Link between Oxidative Stress and Demyelination. <i>PLoS ONE</i> , 2013, 8, e65725.	1.1	44
5	Cerebral Small Artery Diseases may be Associated with Aortic Arch Calcification in Stroke Patients. <i>Journal of Atherosclerosis and Thrombosis</i> , 2014, 21, 1011-1021.	0.9	10
6	Low-Glycotoxin Diets and Spirulina may have Potential for Slowing the Growth and Spread of Rage-expressing Cancers. <i>Journal of Integrative Oncology</i> , 2014, 04, .	0.3	0
7	Recent Highlights of <i>ATVB</i> . <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, 1329-1332.	1.1	46
8	Skin Autofluorescence Associates With Vascular Calcification in Chronic Kidney Disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, 1784-1790.	1.1	24
9	Protective effects of the combination of sodium ferulate and oxymatrine on cecal ligation and puncture-induced sepsis in mice. <i>Experimental and Therapeutic Medicine</i> , 2014, 7, 1297-1304.	0.8	6
10	Simvastatin Does Not Diminish the In Vivo Degeneration of Decellularized Aortic Conduits. <i>Journal of Cardiovascular Pharmacology</i> , 2014, 64, 332-342.	0.8	9
11	The Molecular Biology and Pathophysiology of Vascular Calcification. <i>Postgraduate Medicine</i> , 2014, 126, 54-64.	0.9	62
12	Role of multiligand/RAGE axis in platelet activation. <i>Thrombosis Research</i> , 2014, 133, 308-314.	0.8	33
13	Role of advanced glycation end products in cellular signaling. <i>Redox Biology</i> , 2014, 2, 411-429.	3.9	856
14	Soft-tissue Wound Healing by Anti-advanced Glycation End-products Agents. <i>Journal of Dental Research</i> , 2014, 93, 388-393.	2.5	27
15	RAGE influences the development of aortic valve stenosis in mice on a high fat diet. <i>Experimental Gerontology</i> , 2014, 59, 13-20.	1.2	20
16	Involvement of Rho-associated protein kinase (ROCK) and bone morphogenetic protein-binding endothelial cell precursor-derived regulator (BMPER) in high glucose-increased alkaline phosphatase expression and activity in human coronary artery smooth muscle cells. <i>Cardiovascular Diabetology</i> , 2015, 14, 104.	2.7	14
17	Effects of empagliflozin on blood pressure and markers of arterial stiffness and vascular resistance in patients with type 2 diabetes. <i>Diabetes, Obesity and Metabolism</i> , 2015, 17, 1180-1193.	2.2	392
18	Chronic Ingestion of Advanced Glycation End Products Induces Degenerative Spinal Changes and Hypertrophy in Aging Pre-Diabetic Mice. <i>PLoS ONE</i> , 2015, 10, e0116625.	1.1	64

#	ARTICLE	IF	CITATIONS
19	Advanced Glycation End Products Impair Voltage-Gated K ⁺ Channels-Mediated Coronary Vasodilation in Diabetic Rats. PLoS ONE, 2015, 10, e0142865.	1.1	12
20	Vascular Effects of Advanced Glycation End-Products: Content of Immunohistochemically Detected AGEs in Radial Artery Samples as a Predictor for Arterial Calcification and Cardiovascular Risk in Asymptomatic Patients with Chronic Kidney Disease. Disease Markers, 2015, 2015, 1-9.	0.6	21
21	Pioglitazone inhibits high glucose-induced expression of receptor for advanced glycation end products in coronary artery smooth muscle cells. Molecular Medicine Reports, 2015, 11, 2601-2607.	1.1	30
22	SiRNA-HMGA2 weakened AGEs-induced epithelial-to-mesenchymal transition in tubular epithelial cells. Biochemical and Biophysical Research Communications, 2015, 457, 730-735.	1.0	10
23	A Review of the Effect of Diet on Cardiovascular Calcification. International Journal of Molecular Sciences, 2015, 16, 8861-8883.	1.8	41
24	Antioxidant icaraside II combined with insulin restores erectile function in streptozotocin-induced type 1 diabetic rats. Journal of Cellular and Molecular Medicine, 2015, 19, 960-969.	1.6	24
25	Postprandial Dysmetabolism and Oxidative Stress in Type 2 Diabetes: Pathogenetic Mechanisms and Therapeutic Strategies. Medicinal Research Reviews, 2015, 35, 968-1031.	5.0	43
26	Advanced glycation end products accelerate arteriosclerosis after renal transplantation through the AGE/RAGE/ILK pathway. Experimental and Molecular Pathology, 2015, 99, 312-319.	0.9	23
27	Vascular calcification: Mechanisms of vascular smooth muscle cell calcification. Trends in Cardiovascular Medicine, 2015, 25, 267-274.	2.3	331
28	AGEs induce ectopic endochondral ossification in intervertebral discs. , 2016, 32, 257-270.		35
29	Basic and Clinical Research Against Advanced Glycation End Products (AGEs): New Compounds to Tackle Cardiovascular Disease and Diabetic Complications. Recent Patents on Cardiovascular Drug Discovery, 2016, 10, 10-33.	1.5	37
30	The Role of AGE/RAGE Signaling in Diabetes-Mediated Vascular Calcification. Journal of Diabetes Research, 2016, 2016, 1-8.	1.0	221
31	Potential role of sodium glucose cotransporter 2 inhibitors in the treatment of hypertension. Current Opinion in Nephrology and Hypertension, 2016, 25, 81-86.	1.0	34
32	Redox signaling in cardiovascular pathophysiology: A focus on hydrogen peroxide and vascular smooth muscle cells. Redox Biology, 2016, 9, 244-253.	3.9	124
33	Uremic Toxicity of Advanced Glycation End Products in CKD. Journal of the American Society of Nephrology: JASN, 2016, 27, 354-370.	3.0	175
34	Vasculopathy in the setting of cardiorenal syndrome: roles of protein-bound uremic toxins. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 313, H1-H13.	1.5	36
35	Endothelin type A receptor blockade reduces vascular calcification and inflammation in rats with chronic kidney disease. Journal of Hypertension, 2017, 35, 376-384.	0.3	30
36	Advanced glycation end products promote the proliferation and migration of primary rat vascular smooth muscle cells via the upregulation of BAG3. International Journal of Molecular Medicine, 2017, 39, 1242-1254.	1.8	12

#	ARTICLE	IF	CITATIONS
37	Roles of High Mobility Group Box 1 in Cardiovascular Calcification. <i>Cellular Physiology and Biochemistry</i> , 2017, 42, 427-440.	1.1	26
38	Diabetes confers <i>in vitro</i> calcific potential on serum which associates with <i>in vivo</i> vascular calcification. <i>Clinical Science</i> , 2017, 131, 991-1000.	1.8	2
39	Arterial Calcification in Diabetes Mellitus. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 205-217.	1.1	106
40	Activation of AMPK is neuroprotective in the oxidative stress by advanced glycosylation end products in human neural stem cells. <i>Experimental Cell Research</i> , 2017, 359, 367-373.	1.2	35
41	Redox imbalance in a model of rat mimicking Hutchinson-Gilford progeria syndrome. <i>Biochemical and Biophysical Research Communications</i> , 2017, 491, 361-367.	1.0	12
42	Accumulation of Advanced Glycation End Products Involved in Inflammation and Contributing to Severe Preeclampsia, in Maternal Blood, Umbilical Blood and Placental Tissues. <i>Gynecologic and Obstetric Investigation</i> , 2017, 82, 388-397.	0.7	29
43	The Involvement of Notch1-RBP-Jk/Msx2 Signaling Pathway in Aortic Calcification of Diabetic Nephropathy Rats. <i>Journal of Diabetes Research</i> , 2017, 2017, 1-11.	1.0	9
44	A novel role of cellular interactions in vascular calcification. <i>Journal of Translational Medicine</i> , 2017, 15, 95.	1.8	55
45	Challenges in vascular tissue engineering for diabetic patients. <i>Acta Biomaterialia</i> , 2018, 70, 25-34.	4.1	18
46	Formula derived Maillard reaction products in post-weaning intrauterine growth-restricted piglets induce developmental programming of hepatic oxidative stress independently of microRNA-21 and microRNA-155. <i>Journal of Developmental Origins of Health and Disease</i> , 2018, 9, 566-572.	0.7	7
47	Increased levels of advanced glycation end products positively correlate with iron overload and oxidative stress markers in patients with β^2 -thalassemia major. <i>Annals of Hematology</i> , 2018, 97, 679-684.	0.8	24
48	Enhanced calcium entry via activation of NOX/PKC underlies increased vasoconstriction induced by methylglyoxal. <i>Biochemical and Biophysical Research Communications</i> , 2018, 506, 1013-1018.	1.0	11
49	Cell-Matrix Interactions and Matricrine Signaling in the Pathogenesis of Vascular Calcification. <i>Frontiers in Cardiovascular Medicine</i> , 2018, 5, 174.	1.1	43
50	Exosomes Derived From Mesenchymal Stromal Cells Pretreated With Advanced Glycation End Product-Bovine Serum Albumin Inhibit Calcification of Vascular Smooth Muscle Cells. <i>Frontiers in Endocrinology</i> , 2018, 9, 524.	1.5	32
51	Advanced glycation end products accelerate calcification in VSMCs through HIF-1 α /PDK4 activation and suppress glucose metabolism. <i>Scientific Reports</i> , 2018, 8, 13730.	1.6	52
52	Evaluation of Aldose Reductase, Protein Glycation, and Antioxidant Inhibitory Activities of Bioactive Flavonoids in <i>Matricaria recutita</i> L. and Their Structure-Activity Relationship. <i>Journal of Diabetes Research</i> , 2018, 2018, 1-11.	1.0	20
53	Obesity and type-2 diabetes as inducers of premature cellular senescence and ageing. <i>Biogerontology</i> , 2018, 19, 447-459.	2.0	119
54	The Role of Advanced Glycation End Products in Diabetic Vascular Complications. <i>Diabetes and Metabolism Journal</i> , 2018, 42, 188.	1.8	179

#	ARTICLE	IF	CITATIONS
55	Pkc δ Activation is Involved in ROS-Mediated Mitochondrial Dysfunction and Apoptosis in Cardiomyocytes Exposed to Advanced Glycation End Products (Ages). , 2018, 9, 647.		41
56	Exosomes, the message transporters in vascular calcification. Journal of Cellular and Molecular Medicine, 2018, 22, 4024-4033.	1.6	49
57	Melatonin attenuates caspase-dependent apoptosis in the thoracic aorta by regulating element balance and oxidative stress in pinealectomised rats. Applied Physiology, Nutrition and Metabolism, 2019, 44, 153-163.	0.9	12
58	HIF-1 α /PDK4/autophagy pathway protects against advanced glycation end-products induced vascular smooth muscle cell calcification. Biochemical and Biophysical Research Communications, 2019, 517, 470-476.	1.0	25
59	Metabolic Stress and Cardiovascular Disease in Diabetes Mellitus. Arteriosclerosis, Thrombosis, and Vascular Biology, 2019, 39, 1911-1924.	1.1	42
60	Protective effect of curcumin against irinotecan α -induced intestinal mucosal injury via attenuation of NF κ B activation, oxidative stress and endoplasmic reticulum stress. International Journal of Oncology, 2019, 54, 1376-1386.	1.4	21
61	A self-assembled DNA-nanoparticle with a targeting peptide for hypoxia-inducible gene therapy of ischemic stroke. Biomaterials Science, 2019, 7, 2174-2190.	2.6	28
62	Lactate accelerates calcification in VSMCs through suppression of BNIP3-mediated mitophagy. Cellular Signalling, 2019, 58, 53-64.	1.7	50
63	Receptor for advanced glycation end products: a key molecule in the genesis of chronic kidney disease vascular calcification and a potential modulator of sodium phosphate co-transporter PIT-1 expression. Nephrology Dialysis Transplantation, 2019, 34, 2018-2030.	0.4	28
64	The Role of Vascular Smooth Muscle Cells in Arterial Remodeling: Focus on Calcification-Related Processes. International Journal of Molecular Sciences, 2019, 20, 5694.	1.8	166
65	The Role of Nonenzymatic Post-translational Protein Modifications in Uremic Vascular Calcification. Advances in Chronic Kidney Disease, 2019, 26, 427-436.	0.6	2
66	Expansive Vascular Remodeling and Increased Vascular Calcification Response to Cholecalciferol in a Murine Model of Obesity and Insulin Resistance. Arteriosclerosis, Thrombosis, and Vascular Biology, 2019, 39, 200-211.	1.1	28
67	Effect of Advanced Glycation End α Products (AGE) Lowering Drug ALT α 711 on Biochemical, Vascular, and Bone Parameters in a Rat Model of CKD α MBD. Journal of Bone and Mineral Research, 2020, 35, 608-617.	3.1	31
68	Regulation of Vascular Calcification by Reactive Oxygen Species. Antioxidants, 2020, 9, 963.	2.2	34
69	Receptor for advanced glycation end products in relation to exposure to metal fumes and polycyclic aromatic hydrocarbon in shipyard welders. Ecotoxicology and Environmental Safety, 2020, 202, 110920.	2.9	10
70	Influence of oxidative stress on vascular calcification in the setting of coexisting chronic kidney disease and diabetes mellitus. Scientific Reports, 2020, 10, 20708.	1.6	9
71	RAGE and its ligands: from pathogenesis to therapeutics. Critical Reviews in Biochemistry and Molecular Biology, 2020, 55, 555-575.	2.3	29
72	Diabetes and calcification: The potential role of anti-diabetic drugs on vascular calcification regression. Pharmacological Research, 2020, 158, 104861.	3.1	36

#	ARTICLE	IF	CITATIONS
73	N ^ε -Carboxymethyl-Lysine Deteriorates Vascular Calcification in Diabetic Atherosclerosis Induced by Vascular Smooth Muscle Cell-Derived Foam Cells. <i>Frontiers in Pharmacology</i> , 2020, 11, 626.	1.6	8
74	Arterial Stiffness. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020, 40, 1078-1093.	1.1	89
75	Human Tissue Kallikrein 1 Improves Erectile Dysfunction of Streptozotocin-Induced Diabetic Rats by Inhibition of Excessive Oxidative Stress and Activation of the PI3K/AKT/eNOS Pathway. <i>Oxidative Medicine and Cellular Longevity</i> , 2020, 2020, 1-18.	1.9	15
76	The biology of vascular calcification. <i>International Review of Cell and Molecular Biology</i> , 2020, 354, 261-353.	1.6	32
77	Febuxostat attenuates vascular calcification induced by vitamin D3 plus nicotine in rats. <i>European Journal of Pharmaceutical Sciences</i> , 2021, 156, 105580.	1.9	1
78	PEDF Attenuates Ocular Surface Damage in Diabetic Mice Model Through Its Antioxidant Properties. <i>Current Eye Research</i> , 2021, 46, 302-308.	0.7	9
79	Predictors of coronary artery calcification and its association with cardiovascular events in patients with chronic kidney disease. <i>Renal Failure</i> , 2021, 43, 1172-1179.	0.8	17
80	Mitochondrial Dysfunction: Cause or Consequence of Vascular Calcification?. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 611922.	1.8	41
81	Mitochondria Homeostasis and Vascular Medial Calcification. <i>Calcified Tissue International</i> , 2021, 109, 113-120.	1.5	12
82	Pleiotropic consequences of metabolic stress for the major histocompatibility complex class II molecule antigen processing and presentation machinery. <i>Immunity</i> , 2021, 54, 721-736.e10.	6.6	30
83	A narrative review of exosomes in vascular calcification. <i>Annals of Translational Medicine</i> , 2021, 9, 579-579.	0.7	12
84	RAGE Differentially Altered in vitro Responses in Vascular Smooth Muscle Cells and Adventitial Fibroblasts in Diabetes-Induced Vascular Calcification. <i>Frontiers in Physiology</i> , 2021, 12, 676727.	1.3	16
85	POSTN promotes diabetic vascular calcification by interfering with autophagic flux. <i>Cellular Signalling</i> , 2021, 83, 109983.	1.7	12
86	Oxidative stress in vascular calcification. <i>Clinica Chimica Acta</i> , 2021, 519, 101-110.	0.5	29
87	Sitagliptin attenuates arterial calcification by downregulating oxidative stress-induced receptor for advanced glycation end products in LDLR knockout mice. <i>Scientific Reports</i> , 2021, 11, 17851.	1.6	5
88	The effect of various classes of glucose-lowering medications on the blood vessel elasticity in patients with type 2 diabetes. <i>Russian Journal of Cardiology</i> , 2020, 25, 3766.	0.4	3
89	Ectopic calcification and bone: a comparison of the effect of dietary carbohydrates, sugars and protein. <i>International Cardiovascular Forum Journal</i> , 2015, 1, 175.	1.1	4
90	N ^ε -carboxymethyl-lysine promotes calcium deposition in VSMCs via intracellular oxidative stress-induced PDK4 activation and alters glucose metabolism. <i>Oncotarget</i> , 2017, 8, 112841-112854.	0.8	24

#	ARTICLE	IF	CITATIONS
91	Mechanisms of Medial Arterial Calcification in Diabetes. <i>Current Pharmaceutical Design</i> , 2014, 20, 5870-5883.	0.9	35
92	Glycation and Glycosylation in Cardiovascular Remodeling: Focus on Advanced Glycation End Products and O-Linked Glycosylations as Glucose-Related Pathogenetic Factors and Disease Markers. <i>Journal of Clinical Medicine</i> , 2021, 10, 4792.	1.0	13
93	A Role for Peroxisome Proliferator-Activated Receptor Gamma Agonists in Counteracting the Degeneration of Cardiovascular Grafts. <i>Journal of Cardiovascular Pharmacology</i> , 2022, 79, e103-e115.	0.8	4
94	ROLE OF METABOLIC SYNDROME AND PRO-INFLAMMATORY STATUS AS POTENTIAL CARDIOVASCULAR RISK FACTORS IN TWENTY TO FIFTY YEARS AGE GROUP IN AN URBAN AREA. <i>Journal of Evolution of Medical and Dental Sciences</i> , 2016, 5, 5154-5160.	0.1	0
95	Associa�o entre claudica�o intermitente e o �ndice tornozelo-braquial em pacientes com doen�a pulmonar obstrutiva cr�nica. <i>Revista Interdisciplinar De Promo�o Da Sa�de</i> , 2018, 1, 1.	0.0	0
96	Diabetic mellitus, vascular calcification and hypoxia: A complex and neglected tripartite relationship. <i>Cellular Signalling</i> , 2022, 91, 110219.	1.7	2
97	Cardiometabolic Syndrome and Vascular Calcification. <i>Cardiometabolic Syndrome Journal</i> , 2022, 2, 1.	1.0	1
98	Sex-dependent deterioration of cardiac function and molecular alterations in age- and disease-associated RAGE overexpression. <i>Mechanisms of Ageing and Development</i> , 2022, 203, 111635.	2.2	1
99	Protective role of activating PPAR�3 in advanced glycation end products-induced impairment of coronary artery vasodilation via inhibiting p38 phosphorylation and reactive oxygen species production. <i>Biomedicine and Pharmacotherapy</i> , 2022, 147, 112641.	2.5	8
100	Revisiting Methodologies for In Vitro Preparations of Advanced Glycation End Products. <i>Applied Biochemistry and Biotechnology</i> , 2022, 194, 2831-2855.	1.4	4
102	Histone Lysine Methylation Modification and Its Role in Vascular Calcification. <i>Frontiers in Endocrinology</i> , 0, 13, .	1.5	10
103	Glycolaldehyde induces synergistic effects on vascular inflammation in TNF-�-stimulated vascular smooth muscle cells. <i>PLoS ONE</i> , 2022, 17, e0270249.	1.1	0
104	Neutrophil Activation by Mineral Microparticles Coated with Methylglyoxal-Glycated Albumin. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7840.	1.8	1
105	Glycation-Associated Diabetic Nephropathy and the Role of Long Noncoding RNAs. <i>Biomedicines</i> , 2022, 10, 2623.	1.4	1
106	Effect of crocin on glycated human low-density lipoprotein: A protective and mechanistic approach. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2023, 286, 121958.	2.0	6
107	Vascular calcification: Molecular mechanisms and therapeutic interventions. <i>MedComm</i> , 2023, 4, .	3.1	9
108	The alteration of advanced glycation end products and its potential role on bone loss under microgravity. <i>Acta Astronautica</i> , 2023, 206, 114-122.	1.7	3
109	Capsaicin inhibits aortic valvular interstitial cell calcification via the redox-sensitive NF�B/AKT/ERK1/2 pathway. <i>Biochemical Pharmacology</i> , 2023, 212, 115530.	2.0	5

#	ARTICLE	IF	CITATIONS
110	Fibroblast growth factor 21 inhibits vascular calcification by ameliorating oxidative stress of vascular smooth muscle cells. <i>Biochemical and Biophysical Research Communications</i> , 2023, 650, 39-46.	1.0	4
111	Antioxidant and Antiglycation Activity of Pentaamine Acid Derivatives of Fullerene C60. <i>Nanobiotechnology Reports</i> , 2022, 17, 840-845.	0.2	1
112	Preventing Disused Bone Loss through Inhibition of Advanced Glycation End Products. <i>International Journal of Molecular Sciences</i> , 2023, 24, 4953.	1.8	2