

# Contributions of polyol pathway to oxidative stress in d

FASEB Journal

13, 23-30

DOI: [10.1096/fasebj.13.1.23](https://doi.org/10.1096/fasebj.13.1.23)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Aldose reductase inhibitors: therapeutic implications for diabetic complications. Expert Opinion on Investigational Drugs, 1999, 8, 2095-2119.	4.1	174
2	Interaction between osmotic and oxidative stress in diabetic precataractous lens. Biochemical Pharmacology, 1999, 58, 1945-1954.	4.4	45
3	Autocrine and paracrine mechanisms in the early stages of diabetic nephropathy. Journal of Endocrinological Investigation, 1999, 22, 708-735.	3.3	4
4	Aldose reductase and the role of the polyol pathway in diabetic nephropathy. Kidney International, 2000, 58, S3-S12.	5.2	265
5	Early changes in lipid peroxidation and antioxidative defense in diabetic rat retina: effect of dl- $\alpha$ -lipoic acid. European Journal of Pharmacology, 2000, 398, 139-146.	3.5	129
6	Evaluation of an aldose reductase inhibitor on lens metabolism, ATPases and antioxidative defense in streptozotocin-diabetic rats: an intervention study. Diabetologia, 2000, 43, 1048-1055.	6.3	39
7	Prostaglandin E2-Induced Up-Regulation of c-fos Messenger Ribonucleic Acid Is Primarily Mediated by $\alpha$ -Cyclic Adenosine Monophosphate in MC3T3-E1 Osteoblasts. Endocrinology, 2000, 141, 291-298.	2.8	17
8	Regulation of the biosynthesis of acyl analogs of platelet-activating factor by purinergic agonist in endothelial cells. FEBS Letters, 2000, 479, 63-66.	2.8	6
9	The effect of weightlessness on cytoskeleton architecture and proliferation of human breast cancer cell line MCF-7. FASEB Journal, 2001, 15, 1104-1106.	0.5	95
10	Clinical Efficacy of Ficarestat, a Novel Aldose Reductase Inhibitor, for Diabetic Peripheral Neuropathy: A 52-week multicenter placebo-controlled double-blind parallel group study. Diabetes Care, 2001, 24, 1776-1782.	8.6	218
11	Aldose Reductase Inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2001, 16, 465-473.	0.5	39
12	The Role of Vitamin E in the Emerging Field of Nutraceuticals. , 2001, , .		2
13	Antioxidants attenuate early up regulation of retinal vascular endothelial growth factor in streptozotocin-diabetic rats. Diabetologia, 2001, 44, 1102-1110.	6.3	168
14	Simulated microgravity impairs respiratory burst activity in human promyelocytic cells. In Vitro Cellular and Developmental Biology - Animal, 2001, 37, 209-215.	1.5	12
15	Modelling studies of the active site of human sorbitol dehydrogenase: an approach to structure-based inhibitor design of the enzyme. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 3133-3136.	2.2	24
16	Cataract development in diabetic sand rats treated with $\alpha$ -lipoic acid and its $\gamma$ -linolenic acid conjugate. Diabetes/Metabolism Research and Reviews, 2001, 17, 44-50.	4.0	33
17	Oxidative stress indices in IDDM subjects with and without long-term diabetic complications. Clinical Biochemistry, 2001, 34, 265-270.	1.9	79
18	Biochemistry and molecular cell biology of diabetic complications. Nature, 2001, 414, 813-820.	27.8	7,641

#	ARTICLE	IF	CITATIONS
19	Functional genomic studies of aldo-keto reductases. <i>Chemico-Biological Interactions</i> , 2001, 130-132, 673-683.	4.0	31
20	cDNA microarray reveals altered cytoskeletal gene expression in space-flown leukemic T lymphocytes (Jurkat). <i>FASEB Journal</i> , 2001, 15, 1783-1785.	0.5	105
21	Evidence for Ca <sup>2+</sup> - and ATP-sensitive peripheral channels in nuclear pore complexes. <i>FASEB Journal</i> , 2001, 15, 2036-2038.	0.5	56
22	How does glucose generate oxidative stress in peripheral nerve?. <i>International Review of Neurobiology</i> , 2002, 50, 3-35.	2.0	112
23	Atorvastatin Attenuates Remnant Lipoprotein-Induced Monocyte Adhesion to Vascular Endothelium Under Flow Conditions. <i>Circulation Research</i> , 2002, 91, 263-271.	4.5	83
24	An aldose reductase inhibitor reverses early diabetes-induced changes in peripheral nerve function, metabolism, and antioxidative defense. <i>FASEB Journal</i> , 2002, 16, 1-26.	0.5	186
25	Aldose reductase activity and glucose-related opacities in incubated lenses from dogs and cats. <i>American Journal of Veterinary Research</i> , 2002, 63, 1591-1597.	0.6	36
26	Dietary Glutathione Protects Rats from Diabetic Nephropathy and Neuropathy. <i>Journal of Nutrition</i> , 2002, 132, 897-900.	2.9	85
27	Mesangial cell protein kinase C isozyme activation in the diabetic milieu. <i>American Journal of Physiology - Renal Physiology</i> , 2002, 282, F975-F980.	2.7	97
28	Oxidative Stress and Stress-Activated Signaling Pathways: A Unifying Hypothesis of Type 2 Diabetes. <i>Endocrine Reviews</i> , 2002, 23, 599-622.	20.1	1,818
29	Polyol pathway and diabetic peripheral neuropathy. <i>International Review of Neurobiology</i> , 2002, 50, 325-392.	2.0	258
30	The Cytoskeleton, apoptosis, and gene expression in T lymphocytes and other mammalian cells exposed to altered gravity. <i>Advances in Space Biology and Medicine</i> , 2002, 8, 77-128.	0.5	41
31	Oxidative stress parameters in type I, type II and insulin-treated type 2 diabetes mellitus; insulin treatment efficiency. <i>Clinica Chimica Acta</i> , 2002, 321, 89-96.	1.1	162
32	Antioxidant effects of gliclazide, glibenclamide, and metformin in patients with type 2 diabetes mellitus. <i>Current Therapeutic Research</i> , 2002, 63, 411-420.	1.2	28
33	Diabetic vascular dysfunction: Links to glucose-induced reductive stress and VEGF. <i>Microscopy Research and Technique</i> , 2002, 57, 390-407.	2.2	56
34	Effects of alpha lipoic acid, ascorbic acid-6-palmitate, and fish oil on the glutathione, malonaldehyde, and fatty acids levels in erythrocytes of streptozotocin induced diabetic male rats. <i>Journal of Cellular Biochemistry</i> , 2002, 86, 530-539.	2.6	27
35	Microgravity modifies protein kinase C isoform translocation in the human monocytic cell line U937 and human peripheral blood T-cells. <i>Journal of Cellular Biochemistry</i> , 2002, 87, 39-50.	2.6	53
36	Risk factors for cataract in Chinese patients with type 2 diabetes: evidence for the influence of the aldose reductase gene. <i>Clinical Genetics</i> , 2002, 59, 356-359.	2.0	17

#	ARTICLE	IF	CITATIONS
37	A Short Pulse of Mechanical Force Induces Gene Expression and Growth in MC3T3-E1 Osteoblasts via an ERK 1/2 Pathway. <i>Journal of Bone and Mineral Research</i> , 2003, 18, 58-66.	2.8	107
38	Early oxidative stress in the diabetic kidney: effect of DL- $\alpha$ -lipoic acid. <i>Free Radical Biology and Medicine</i> , 2003, 34, 186-195.	2.9	127
39	Icodextrin-induced lipid peroxidation disrupts the mesothelial cell cycle engine. <i>Free Radical Biology and Medicine</i> , 2003, 34, 419-428.	2.9	34
40	Weightlessness acts on human breast cancer cell line MCF-7. <i>Advances in Space Research</i> , 2003, 32, 1595-1603.	2.6	44
41	Contribution of Polyol Pathway to Diabetes-Induced Oxidative Stress. <i>Journal of the American Society of Nephrology: JASN</i> , 2003, 14, S233-S236.	6.1	467
42	The role of polyol pathway in glucose-induced apoptosis of cultured retinal pericytes. <i>Diabetes Research and Clinical Practice</i> , 2003, 60, 1-9.	2.8	67
43	Lens aldose reductase inhibiting potential of some indigenous plants. <i>Journal of Ethnopharmacology</i> , 2003, 86, 113-116.	4.1	82
44	Transgenic mice overexpressing aldose reductase in Schwann cells show more severe nerve conduction velocity deficit and oxidative stress under hyperglycemic stress. <i>Molecular and Cellular Neurosciences</i> , 2003, 23, 638-647.	2.2	89
45	The Response of Antioxidant Genes to Hyperglycemia Is Abnormal in Patients With Type 1 Diabetes and Diabetic Nephropathy. <i>Diabetes</i> , 2003, 52, 846-851.	0.6	120
46	Aldose Reductase Inhibitor Fidarestat Prevents Retinal Oxidative Stress and Vascular Endothelial Growth Factor Overexpression in Streptozotocin-Diabetic Rats. <i>Diabetes</i> , 2003, 52, 864-871.	0.6	197
47	Diabetes-induced overexpression of endothelin-1 and endothelin receptors in the rat renal cortex is mediated via poly(ADP-ribose) polymerase activation. <i>FASEB Journal</i> , 2003, 17, 1-18.	0.5	93
48	Oxidative Injury and Apoptosis of Dorsal Root Ganglion Neurons in Chronic Experimental Diabetic Neuropathy. <i>Diabetes</i> , 2003, 52, 165-171.	0.6	316
49	Diabetes mellitus and endothelial dysfunction: a central role for oxidative stress. <i>Current Opinion in Endocrinology, Diabetes and Obesity</i> , 2003, 10, 237-244.	0.6	3
50	Dietary glycemic load and risk of age-related cataract. <i>American Journal of Clinical Nutrition</i> , 2004, 80, 489-495.	4.7	45
51	Poly(ADP-ribose) polymerase inhibitors counteract diabetes- and hypoxia-induced retinal vascular endothelial growth factor overexpression. <i>International Journal of Molecular Medicine</i> , 2004, 14, 55.	4.0	30
52	ATVB In Focus. Arteriosclerosis, Thrombosis, and Vascular Biology, 2004, 24, 1340-1341.	2.4	4
53	Neurotrophin-3-induced production of nerve growth factor is suppressed in Schwann cells exposed to high glucose: involvement of the polyol pathway. <i>Journal of Neurochemistry</i> , 2004, 91, 1430-1438.	3.9	47
54	Pharmacological prevention of diabetic cataract. <i>Journal of Diabetes and Its Complications</i> , 2004, 18, 129-140.	2.3	167

#	ARTICLE	IF	CITATIONS
55	Oxidative and antioxidative status in pregnant women with either gestational or type 1 diabetes. <i>Clinical Biochemistry</i> , 2004, 37, 293-298.	1.9	122
56	Redox state-dependent and sorbitol accumulation-independent diabetic albuminuria in mice with transgene-derived human aldose reductase and sorbitol dehydrogenase deficiency. <i>Diabetologia</i> , 2004, 47, 541-548.	6.3	16
57	Evaluation of orally active poly(ADP-ribose) polymerase inhibitor in streptozotocin-diabetic rat model of early peripheral neuropathy. <i>Diabetologia</i> , 2004, 47, 710-717.	6.3	76
58	Effects of Melatonin on Plasma S-Nitrosoglutathione and Glutathione in Streptozotocin-Treated Rats. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2004, 67, 979-986.	2.3	3
59	8-Hydroxydaidzein, an Aldose Reductase Inhibitor from Okara Fermented with <i>Aspergillus</i> sp. HK-388. <i>Bioscience, Biotechnology and Biochemistry</i> , 2004, 68, 1588-1590.	1.3	26
60	Clinical Potential of Aldose Reductase Inhibitors in Diabetic Neuropathy. <i>Treatments in Endocrinology: Guiding Your Management of Endocrine Disorders</i> , 2004, 3, 245-255.	1.8	40
61	Cataract formation in a strain of rats selected for high oxidative stress. <i>Experimental Eye Research</i> , 2004, 79, 595-612.	2.6	84
62	Suppression of 3-deoxyglucosone and heparin-binding epidermal growth factor-like growth factor mRNA expression by an aldose reductase inhibitor in rat vascular smooth muscle cells. <i>Biochemical and Biophysical Research Communications</i> , 2004, 314, 370-376.	2.1	9
63	Polyol pathway-dependent osmotic and oxidative stresses in aldose reductase-mediated apoptosis in human lens epithelial cells: role of AOP2. <i>Biochemical and Biophysical Research Communications</i> , 2004, 314, 1050-1056.	2.1	61
64	Lipid Peroxidation and Resistance to Oxidation in Patients with Type 2 Diabetes Mellitus. <i>Tohoku Journal of Experimental Medicine</i> , 2004, 203, 211-218.	1.2	83
65	6-Methylsulfinylhexyl Isothiocyanate, an Antioxidant Derived from <i>Wasabia japonica</i> MATUM, Ameliorates Diabetic Nephropathy in Type 2 Diabetic Mice. <i>Food Science and Technology Research</i> , 2004, 10, 290-295.	0.6	21
66	Application of newly available bio-reducing agents to the synthesis of chiral hydroxy- $\beta$ -lactams: model for aldose reductase selectivity. <i>Tetrahedron: Asymmetry</i> , 2005, 16, 4004-4009.	1.8	16
67	Oxidative stress and stress signaling: menace of diabetic cardiomyopathy. <i>Acta Pharmacologica Sinica</i> , 2005, 26, 908-917.	6.1	171
69	Glutathione levels in patients with erectile dysfunction, with or without diabetes mellitus. <i>Journal of Developmental and Physical Disabilities</i> , 2005, 28, 156-162.	3.6	24
70	Subconjunctivally administered celecoxib-PLGA microparticles sustain retinal drug levels and alleviate diabetes-induced oxidative stress in a rat model. <i>European Journal of Pharmacology</i> , 2005, 511, 191-198.	3.5	113
71	Fibrates inhibit aldose reductase activity in the forward and reverse reactions. <i>Biochemical Pharmacology</i> , 2005, 70, 1653-1663.	4.4	24
72	Exposure of human lymphocytes and lymphoblastoid cells to simulated microgravity strongly affects energy metabolism and DNA repair. <i>Journal of Cellular Biochemistry</i> , 2005, 94, 460-469.	2.6	31
73	Gene expression profiling of diabetic and galactosaemic cataractous rat lens by microarray analysis. <i>Diabetologia</i> , 2005, 48, 790-798.	6.3	24

#	ARTICLE	IF	CITATIONS
74	Efficacy of lower doses of vanadium in restoring altered glucose metabolism and antioxidant status in diabetic rat lenses. <i>Journal of Biosciences</i> , 2005, 30, 221-230.	1.1	35
75	Analysis of polyols in urine by liquid chromatography-tandem mass spectrometry: A useful tool for recognition of inborn errors affecting polyol metabolism. <i>Journal of Inherited Metabolic Disease</i> , 2005, 28, 951-963.	3.6	40
76	Role for Poly(ADP-ribose) Polymerase Activation in Diabetic Nephropathy, Neuropathy and Retinopathy. <i>Current Vascular Pharmacology</i> , 2005, 3, 267-283.	1.7	57
77	Aldose Reductase Inhibition Counteracts Oxidative-Nitrosative Stress and Poly(ADP-Ribose) Polymerase Activation in Tissue Sites for Diabetes Complications. <i>Diabetes</i> , 2005, 54, 234-242.	0.6	165
78	Fetal and Maternal Non-glucose Carbohydrates and Polyols Concentrations in Normal Human Pregnancies at Term. <i>Pediatric Research</i> , 2005, 58, 700-704.	2.3	52
79	Aldose Reductase in Diabetic Microvascular Complications. <i>Current Drug Targets</i> , 2005, 6, 475-486.	2.1	128
80	Mouse Infection Models for Space Flight Immunology. <i>Advances in Space Biology and Medicine</i> , 2005, 10, 81-104.	0.5	5
81	Parameters for Measurement of Oxidative Stress in Diabetes Mellitus: Applicability of Enzyme-Linked Immunosorbent Assay for Clinical Evaluation. <i>Journal of Investigative Medicine</i> , 2005, 53, 167-175.	1.6	23
82	Aldehyde Sources, Metabolism, Molecular Toxicity Mechanisms, and Possible Effects on Human Health. <i>Critical Reviews in Toxicology</i> , 2005, 35, 609-662.	3.9	590
83	DIABETES INDUCED DECREASE IN DETRUSOR SMOOTH MUSCLE FORCE IS ASSOCIATED WITH OXIDATIVE STRESS AND OVERACTIVITY OF ALDOSE REDUCTASE. <i>Journal of Urology</i> , 2005, 173, 309-313.	0.4	64
84	Ocular Metabolism and Disposition of 4-Hydroxy-2-nonenal. <i>Cutaneous and Ocular Toxicology</i> , 2005, 24, 165-176.	1.3	1
85	Diabetic changes in the redox status of the microsomal protein folding machinery. <i>Biochemical and Biophysical Research Communications</i> , 2005, 334, 787-795.	2.1	47
86	In vitro glucose-induced cataract in copper-zinc superoxide dismutase null mice. <i>Experimental Eye Research</i> , 2005, 81, 639-646.	2.6	35
87	Altered redox status in patients with Diabetes Mellitus type I. <i>Pharmacological Research</i> , 2005, 51, 375-380.	7.1	45
88	Increased Sorbitol Pathway Activity Generates Oxidative Stress in Tissue Sites for Diabetic Complications. <i>Antioxidants and Redox Signaling</i> , 2005, 7, 1543-1552.	5.4	140
89	A Proteomics Approach to Identify Protein Expression Changes in Rat Liver Following Administration of 3,5,3'-Triiodo-L-thyronine. <i>Journal of Proteome Research</i> , 2006, 5, 2317-2327.	3.7	18
90	Synergism between phospholipase D2 and sorbitol accumulation in diabetic cataract formation through modulation of Na,K-ATPase activity and osmotic stress. <i>Experimental Eye Research</i> , 2006, 83, 939-948.	2.6	9
91	Oxidative stress in diabetes: A mechanistic overview of its effects on atherogenesis and myocardial dysfunction. <i>International Journal of Biochemistry and Cell Biology</i> , 2006, 38, 794-803.	2.8	138

#	ARTICLE	IF	CITATIONS
92	Effects of melatonin on plasma oxidative stress in rats with streptozotocin induced diabetes. Biomedicine and Pharmacotherapy, 2006, 60, 32-35.	5.6	42
93	Characterization of hearing loss in aged type II diabetics. Hearing Research, 2006, 211, 103-113.	2.0	159
94	Binding of Fidarestat Stereoisomers with Aldose Reductase. International Journal of Molecular Sciences, 2006, 7, 519-536.	4.1	4
95	The use of the random positioning machine for the study of gravitational effects on signal transduction in mammalian cells. Signal Transduction, 2006, 6, 388-396.	0.4	10
96	Canine cataracts, diabetes mellitus and spontaneous lens capsule rupture: a retrospective study of 18 dogs. Veterinary Ophthalmology, 2006, 9, 328-334.	1.0	54
97	Parameters of oxidative stress in saliva from diabetic and parenteral drug addict patients. Journal of Oral Pathology and Medicine, 2006, 35, 554-559.	2.7	68
98	Acute irreversible diabetic cataract in adolescence: a case report. Eye, 2006, 20, 398-400.	2.1	12
99	Quantitative structure-activity relationship of spirosuccinimide type aldose reductase inhibitors diminishing sorbitol accumulation in vivo. Bioorganic and Medicinal Chemistry, 2006, 14, 3090-3097.	3.0	7
100	Simultaneous measurement of urinary polyols using gas chromatography/mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2006, 831, 126-131.	2.3	22
101	Protective effects of various antioxidants during ischemia-reperfusion in the rat retina. Graefe's Archive for Clinical and Experimental Ophthalmology, 2006, 244, 627-633.	1.9	74
102	From hypergravity to microgravity: Choosing the suitable simulator. Microgravity Science and Technology, 2006, 18, 250-253.	1.4	1
103	Ginsenoside Re of Panax ginseng possesses significant antioxidant and antihyperlipidemic efficacies in streptozotocin-induced diabetic rats. European Journal of Pharmacology, 2006, 550, 173-179.	3.5	234
104	Diabetic neuropathy and oxidative stress. Diabetes/Metabolism Research and Reviews, 2006, 22, 257-273.	4.0	232
105	Effects of flavonoids on the expression of the pro-inflammatory response in human monocytes induced by ligation of the receptor for AGEs. Molecular Nutrition and Food Research, 2006, 50, 1129-1139.	3.3	76
108	Effects of topical administration of an aldose reductase inhibitor on cataract formation in dogs fed a diet high in galactose. American Journal of Veterinary Research, 2006, 67, 1783-1787.	0.6	29
109	Pioglitazone Reduces Endothelial Microparticles in the Metabolic Syndrome. Arteriosclerosis, Thrombosis, and Vascular Biology, 2006, 26, 1926-1926.	2.4	35
110	Diabetic Vascular Disease. Arteriosclerosis, Thrombosis, and Vascular Biology, 2006, 26, 1693-1701.	2.4	60
111	Apoptosis in Patients with Dilated Cardiomyopathy and Diabetes: A Feature of Diabetic Cardiomyopathy?. Hormone and Metabolic Research, 2007, 39, 672-676.	1.5	83

#	ARTICLE	IF	CITATIONS
112	Genetic Origins of Cataract. JAMA Ophthalmology, 2007, 125, 165.	2.4	154
113	Atorvastatin Donor Pretreatment Prevents Ischemia/Reperfusion Injury in Renal Transplantation in Rats: Possible Role for Aldose-Reductase Inhibition. Transplantation, 2007, 84, 755-762.	1.0	39
114	Renal Microvascular Injury in Diabetes: RAGE and Redox Signaling. Antioxidants and Redox Signaling, 2007, 9, 331-342.	5.4	32
115	1.3 Pentose Phosphate Pathway and NADPH Metabolism. , 2007, , 41-62.		33
117	Diabetes and Endothelial Dysfunction. High Blood Pressure and Cardiovascular Prevention, 2007, 14, 5-10.	2.2	3
118	Obesity and Immunity. , 2007, , 993-1011.		2
119	Pyridine Nucleotide Redox Abnormalities in Diabetes. Antioxidants and Redox Signaling, 2007, 9, 931-942.	5.4	74
120	Ophthalmologic Activity. , 2007, , 1917-1939.		0
121	Oxidative Stress, Glucose Metabolism, and the Prevention of Type 2 Diabetes: Pathophysiological Insights. Antioxidants and Redox Signaling, 2007, 9, 911-929.	5.4	94
122	Antioxidant activity and free radical-scavenging capacity of extracts from guava (Psidium guajava L.) leaves. Food Chemistry, 2007, 101, 686-694.	8.2	241
123	Fructose Metabolism in the Adult Mouse Optic Nerve, A Central White Matter Tract. Journal of Cerebral Blood Flow and Metabolism, 2007, 27, 86-99.	4.3	19
124	CAN NITRIC OXIDE-GENERATING COMPOUNDS IMPROVE THE OXIDATIVE STRESS RESPONSE IN EXPERIMENTALLY DIABETIC RATS?. Clinical and Experimental Pharmacology and Physiology, 2007, 34, 586-593.	1.9	18
125	Alterations of the actin cytoskeleton and increased nitric oxide synthesis are common features in human primary endothelial cell response to changes in gravity. Biochimica Et Biophysica Acta - Molecular Cell Research, 2007, 1773, 1645-1652.	4.1	86
126	Glucose-induced cataract in CuZn-SOD null lenses: An effect of nitric oxide?. Free Radical Biology and Medicine, 2007, 42, 1098-1105.	2.9	39
127	Long-term sucrose and glucose consumption decreases the $\beta$ -aminolevulinate dehydratase activity in mice. Nutrition, 2007, 23, 818-826.	2.4	27
128	Health Benefits of Traditional Corn, Beans, and Pumpkin: <i>In Vitro</i> Studies for Hyperglycemia and Hypertension Management. Journal of Medicinal Food, 2007, 10, 266-275.	1.5	266
129	Apoptosis and Human Diseases: Molecular Mechanisms. , 2006, , 365-394.		0
130	Approximate similarity and QSAR in the study of spirosuccinimide type aldose reductase inhibitors. Journal of Mathematical Chemistry, 2008, 43, 1549-1559.	1.5	4



#	ARTICLE	IF	CITATIONS
131	Effects of thiamine and benfotiamine on intracellular glucose metabolism and relevance in the prevention of diabetic complications. <i>Acta Diabetologica</i> , 2008, 45, 131-141.	2.5	101
132	Gravitational unloading induces an anti-angiogenic phenotype in human microvascular endothelial cells. <i>Journal of Cellular Biochemistry</i> , 2008, 104, 129-135.	2.6	39
133	In vitro studies of eggplant ( <i>Solanum melongena</i> ) phenolics as inhibitors of key enzymes relevant for type 2 diabetes and hypertension. <i>Bioresource Technology</i> , 2008, 99, 2981-2988.	9.6	325
134	Synthesis and biological activity of some new flavonyl-2,4-thiazolidinediones. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 6747-6751.	3.0	48
135	Complications of type 1 diabetes: new molecular findings. <i>Mount Sinai Journal of Medicine</i> , 2008, 75, 328-351.	1.9	18
136	<i>Ginkgo biloba</i> extract prevents against apoptosis induced by high glucose in human lens epithelial cells <sup>1</sup> . <i>Acta Pharmacologica Sinica</i> , 2008, 29, 1042-1050.	6.1	22
137	Nutritional supplementation for type 2 diabetes: a systematic review. <i>Ophthalmic and Physiological Optics</i> , 2008, 28, 503-523.	2.0	83
138	Polyol pathway mediates iron-induced oxidative injury in ischemic-reperfused rat heart. <i>Free Radical Biology and Medicine</i> , 2008, 45, 602-610.	2.9	72
139	Advanced glycation endproducts induce a proliferative response in vascular smooth muscle cells via altered calcium signaling. <i>Biochemical Pharmacology</i> , 2008, 76, 1110-1120.	4.4	23
140	Oxidative Stress in Aging. , 2008, , .		14
141	Laboratory Guide to the Methods in Biochemical Genetics. , 2008, , .		76
142	Dietary soy isoflavones increase insulin secretion and prevent the development of diabetic cataracts in streptozotocin-induced diabetic rats. <i>Nutrition Research</i> , 2008, 28, 464-471.	2.9	78
143	Synergistic effect of osmotic and oxidative stress in slow-developing cataract formation. <i>Experimental Eye Research</i> , 2008, 87, 454-461.	2.6	44
144	Antihyperglycemic Effect of <i>Fomitopsis pinicola</i> Extracts in Streptozotocin-Induced Diabetic Rats. <i>Journal of Medicinal Food</i> , 2008, 11, 518-524.	1.5	45
145	In vitro aldose reductase inhibitory activity of some flavonyl-2,4-thiazolidinediones. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2008, 23, 297-301.	5.2	8
146	Unusual Binding Mode of the 2 <i>S</i> 4 <i>R</i> Stereoisomer of the Potent Aldose Reductase Cyclic Imide Inhibitor Fidarestat (2 <i>S</i> 4 <i>S</i> ) in the 15 K Crystal Structure of the Ternary Complex Refined at 0.78 Å... Resolution: Implications for the Inhibition Mechanism. <i>Journal of Medicinal Chemistry</i> . 2008. 51. 1478-1481.	6.4	6
147	Could Oxidative Stress Associate with Age Products in Cataractogenesis?. <i>Current Eye Research</i> , 2008, 33, 669-675.	1.5	19
148	Role of Advanced Glycation End Products in Diabetic Neuropathy. <i>Current Pharmaceutical Design</i> , 2008, 14, 953-961.	1.9	268

#	ARTICLE	IF	CITATIONS
149	Attenuation of Cataract Progression by A-3922, a Dihydrobenzofuran Derivative, in Streptozotocin-Induced Diabetic Rats. Biological and Pharmaceutical Bulletin, 2008, 31, 1959-1963.	1.4	16
150	Effect of Nifedipine on Severe Experimental Cataract in Diabetic Rats. Journal of Pharmacological Sciences, 2008, 106, 651-658.	2.5	11
151	Regulation of Oxidative Stress and Cardioprotection in Diabetes Mellitus. Current Cardiology Reviews, 2008, 4, 251-258.	1.5	5
152	Aldose Reductase, Still a Compelling Target for Diabetic Neuropathy. Current Drug Targets, 2008, 9, 14-36.	2.1	202
153	Assessment of NADPH-diaphorase stained myenteric neurons of the jejunum of diabetic rats supplemented with ascorbic acid. Pesquisa Veterinaria Brasileira, 2008, 28, 95-102.	0.5	2
154	Mouse Models of the Cornea and Lens. , 2008, , 148-172.		2
155	Effects of ascorbic acid supplementation in ileum myenteric neurons of streptozotocin-induced diabetic rats. Pesquisa Veterinaria Brasileira, 2009, 29, 295-302.	0.5	1
156	Prevention of Posterior Capsular Opacification through Aldose Reductase Inhibition. , 2009, 50, 752.		38
157	Acute unilateral cataract in a postpartum adolescent with poorly-controlled type 1 diabetes. Obstetric Medicine, 2009, 2, 81-83.	1.1	0
158	Molecular mechanisms of endothelial hyperpermeability: implications in inflammation. Expert Reviews in Molecular Medicine, 2009, 11, e19.	3.9	323
159	Regulation of Matrix Synthesis, Remodeling and Accumulation in Glomerulosclerosis. Current Pharmaceutical Design, 2009, 15, 1318-1333.	1.9	41
160	The effect of Hyperglycemia and Oxidative Stress on the Development and Progress of Vascular Complications in Type 2 Diabetes. Journal of Medical Biochemistry, 2009, 28, 63-71.	1.7	13
161	Aldose reductase mediates myocardial ischemia-reperfusion injury in part by opening mitochondrial permeability transition pore. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 296, H333-H341.	3.2	43
162	Hyperglycemia and Glycation in Diabetic Complications. Antioxidants and Redox Signaling, 2009, 11, 3071-3109.	5.4	321
163	Advanced glycation end products in senile diabetic and nondiabetic patients with cataract. Journal of Diabetes and Its Complications, 2009, 23, 343-348.	2.3	41
164	Intracellular GSH and ROS levels may be related to galactose-mediated human lens epithelial cell apoptosis: Role of recombinant hirudin variant III. Chemico-Biological Interactions, 2009, 179, 103-109.	4.0	31
165	Efficacy of coumarin on hepatic key enzymes of glucose metabolism in chemical induced type 2 diabetic rats. Chemico-Biological Interactions, 2009, 181, 292-296.	4.0	61
166	Role of fructose concentration on cataractogenesis in senile diabetic and non-diabetic patients. Graefe's Archive for Clinical and Experimental Ophthalmology, 2009, 247, 809-814.	1.9	10

#	ARTICLE	IF	CITATIONS
167	Modeled microgravity causes changes in the cytoskeleton and focal adhesions, and decreases in migration in malignant human MCF-7 cells. <i>Protoplasma</i> , 2009, 238, 23-33.	2.1	47
168	Reactive oxygen species, reactive nitrogen species and antioxidants in etiopathogenesis of diabetes mellitus type-2. <i>Indian Journal of Clinical Biochemistry</i> , 2009, 24, 324-342.	1.9	68
169	Role of nitrosative stress in the pathogenesis of diabetic vascular dysfunction. <i>British Journal of Pharmacology</i> , 2009, 156, 713-727.	5.4	151
170	Diabetic hepatosclerosis: a 10-year autopsy series. <i>Liver International</i> , 2009, 29, 1044-1050.	3.9	27
171	Inhibitory effects of guava ( <i>Psidium guajava</i> L.) leaf extracts and its active compounds on the glycation process of protein. <i>Food Chemistry</i> , 2009, 113, 78-84.	8.2	163
172	Spaceflight effects on T lymphocyte distribution, function and gene expression. <i>Journal of Applied Physiology</i> , 2009, 106, 194-202.	2.5	137
173	Could spaceflight-associated immune system weakening preclude the expansion of human presence beyond Earth's orbit?. <i>Journal of Leukocyte Biology</i> , 2009, 86, 1027-1038.	3.3	243
174	Oxidative-induced membrane damage in diabetes lymphocytes: Effects on intracellular $Ca^{2+}$ homeostasis. <i>Free Radical Research</i> , 2009, 43, 138-148.	3.3	30
175	Aldose Reductase Inhibitor, Epalrestat, Reduces Lipid Hydroperoxides in Type 2 Diabetes. <i>Endocrine Journal</i> , 2009, 56, 149-156.	1.6	29
176	Synthesis of flavonoids and their effects on aldose reductase and sorbitol accumulation in streptozotocin-induced diabetic rat tissues. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 53, 653-668.	2.4	101
178	Direct analysis of polyols using 3-nitrophenylboronic acid in capillary electrophoresis: thermodynamic and electrokinetic principles of molecular recognition. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 1349-1356.	3.7	15
179	Inhibitory effects of ursolic acid on hepatic polyol pathway and glucose production in streptozotocin-induced diabetic mice. <i>Metabolism: Clinical and Experimental</i> , 2010, 59, 512-519.	3.4	87
180	Oxidative stress and alterations in actin cytoskeleton trigger glutathione efflux in <i>Saccharomyces cerevisiae</i> . <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2010, 1803, 1376-1385.	4.1	18
181	Retinal Redox Stress and Remodeling in Cardiometabolic Syndrome and Diabetes. <i>Oxidative Medicine and Cellular Longevity</i> , 2010, 3, 392-403.	4.0	55
182	Diabetes-associated cataracts. , 2010, , 243-249.		2
183	Aldose Reductase Inhibitor Ameliorates Renal Vascular Endothelial Growth Factor Expression in Streptozotocin-Induced Diabetic Rats. <i>Yonsei Medical Journal</i> , 2010, 51, 385.	2.2	13
184	Cardiac contractile dysfunction during acute hyperglycemia due to impairment of SERCA by polyol pathway-mediated oxidative stress. <i>American Journal of Physiology - Cell Physiology</i> , 2010, 299, C643-C653.	4.6	70
185	The tissue and plasma concentration of polyols and sugars in sheep intrauterine growth retardation. <i>Experimental Biology and Medicine</i> , 2010, 235, 999-1006.	2.4	27

#	ARTICLE	IF	CITATIONS
186	Aldose Reductase and Cardiovascular Diseases, Creating Human-Like Diabetic Complications in an Experimental Model. <i>Circulation Research</i> , 2010, 106, 1449-1458.	4.5	128
188	Oxidative Stress and Diabetic Complications. <i>Circulation Research</i> , 2010, 107, 1058-1070.	4.5	3,989
189	Polyol pathway impairs the function of SERCA and RyR in ischemic-reperfused rat hearts by increasing oxidative modifications of these proteins. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 49, 58-69.	1.9	42
190	Attenuation of Oxidative Damage in Alloxan Induced Diabetic Rabbits Following Administration of the Extract of the Leaves of <i>Vernonia amygdalina</i> .. <i>Free Radicals and Antioxidants</i> , 2011, 1, 94-101.	0.3	9
191	Relationship between oxidative stress and apoptotic markers in lymphocytes of diabetic patients with chronic non healing wound. <i>Diabetes Research and Clinical Practice</i> , 2011, 94, 377-384.	2.8	61
192	Extraction and identification of three major aldose reductase inhibitors from <i>Artemisia montana</i> . <i>Food and Chemical Toxicology</i> , 2011, 49, 376-384.	3.6	102
193	Parabolic Flight Induces Changes in Gene Expression Patterns in <i>Arabidopsis thaliana</i> . <i>Astrobiology</i> , 2011, 11, 743-758.	3.0	39
194	Targeted antioxidant therapies in hyperglycemia-mediated endothelial dysfunction. <i>Frontiers in Bioscience - Scholar</i> , 2011, S3, 709-729.	2.1	37
195	Increased oxidative stress in patients with familial Mediterranean fever during attack period. <i>African Health Sciences</i> , 2011, 11, S6-13.	0.7	10
196	In Vivo Anti-diabetic and Anti-oxidant Potential of <i>Psoralea corylifolia</i> Seeds in Streptozotocin Induced Type-2 Diabetic Rats. <i>Journal of Health Science</i> , 2011, 57, 225-235.	0.9	20
197	Dietary hyperglycemia, glycemic index and metabolic retinal diseases. <i>Progress in Retinal and Eye Research</i> , 2011, 30, 18-53.	15.5	132
198	Aldose reductase-mediated induction of epithelium-to-mesenchymal transition (EMT) in lens. <i>Chemico-Biological Interactions</i> , 2011, 191, 351-356.	4.0	35
199	Aldose reductase inhibition suppresses oxidative stress-induced inflammatory disorders. <i>Chemico-Biological Interactions</i> , 2011, 191, 330-338.	4.0	144
200	Clinical Science Review Article: Understanding the Implications of Diabetes on the Vascular System. <i>Vascular and Endovascular Surgery</i> , 2011, 45, 481-489.	0.7	1
201	Gastroprotective effect of small centaury ( <i>Centaurium erythraea</i> L) on aspirin-induced gastric damage in rats. <i>Toxicology and Industrial Health</i> , 2011, 27, 760-768.	1.4	39
202	Evaluation of rat kidney aldose reductase inhibitory activity of some N-acetyl dehydroalanine derivatives. <i>Medicinal Chemistry Research</i> , 2011, 20, 453-460.	2.4	0
203	Space flight affects motility and cytoskeletal structures in human monocyte cell line Jâ€ł11. <i>Cytoskeleton</i> , 2011, 68, 125-137.	2.0	67
204	Studies on Experimental Models. , 2011, , .		1

#	ARTICLE	IF	CITATIONS
205	Increased occupational coal dust toxicity in blood of central heating system workers. Toxicology and Industrial Health, 2011, 27, 57-64.	1.4	12
206	Oxidative stress, antioxidant status and lipid profile in the saliva of type 2 diabetics. Diabetes and Vascular Disease Research, 2011, 8, 22-28.	2.0	109
207	Prevention and management of diabetic retinopathy in young persons with Type 1 diabetes. Diabetes Management, 2012, 2, 559-569.	0.5	2
208	Differential Gene Expression Profile in Bovine Blastocysts Resulting from Hyperglycemia Exposure During Early Cleavage Stages1. Biology of Reproduction, 2012, 86, 50.	2.7	52
209	Aldose Reductase Deficiency Reduced Vascular Changes in Neonatal Mouse Retina in Oxygen-Induced Retinopathy. , 2012, 53, 5698.		32
210	Molecular Intricacies and the Role of ER Stress in Diabetes. Experimental Diabetes Research, 2012, 2012, 1-2.	3.8	10
211	The Role of Glucosamine-Induced ER Stress in Diabetic Atherogenesis. Experimental Diabetes Research, 2012, 2012, 1-11.	3.8	17
212	Aldose Reductase, Oxidative Stress and Diabetic Cardiovascular Complications. Cardiovascular and Hematological Agents in Medicinal Chemistry, 2012, 10, 234-240.	1.0	37
213	GP-1447, an Inhibitor of Aldose Reductase, Prevents the Progression of Diabetic Cataract in Rats. Biological and Pharmaceutical Bulletin, 2012, 35, 866-872.	1.4	22
214	Photoprotective effect of flax seed oil (Linum usitatissimum L.) against ultraviolet C-induced apoptosis and oxidative stress in rats. Toxicology and Industrial Health, 2012, 28, 99-107.	1.4	21
215	The Rel/NF- $\kappa$ B pathway and transcription of immediate early genes in T cell activation are inhibited by microgravity. Journal of Leukocyte Biology, 2012, 92, 1133-1145.	3.3	106
216	Renal complications of diabetes. British Medical Bulletin, 2012, 104, 113-127.	6.9	29
217	Osmotic stress induced oxidative damage: Possible mechanism of cataract formation in diabetes. Journal of Diabetes and Its Complications, 2012, 26, 275-279.	2.3	59
218	Osmotic stress, not aldose reductase activity, directly induces growth factors and MAPK signaling changes during sugar cataract formation. Experimental Eye Research, 2012, 101, 36-43.	2.6	37
219	Toxicologic Pathology of the Eye: Alterations of the Lens and Posterior Segment. Molecular and Integrative Toxicology, 2012, , 219-257.	0.5	7
220	Pharmacologically tested aldose reductase inhibitors isolated from plant sources " A concise report. Chinese Journal of Natural Medicines, 2012, 10, 388-400.	1.3	27
221	Effects of some anti-neoplastic drugs on sheep liver sorbitol dehydrogenase. Archives of Physiology and Biochemistry, 2012, 118, 244-252.	2.1	26
222	Subacute effect of cigarette smoke exposure in rats. Toxicology and Industrial Health, 2012, 28, 3-9.	1.4	17

#	ARTICLE	IF	CITATIONS
223	Aldose Reductase, Oxidative Stress, and Diabetic Mellitus. <i>Frontiers in Pharmacology</i> , 2012, 3, 87.	3.5	303
224	Does diabetes mellitusâ€induced bladder remodeling affect lower urinary tract function?: ICIâ€RS 2011. <i>Neurourology and Urodynamics</i> , 2012, 31, 359-364.	1.5	38
225	Ameliorative influence of <i>Urtica dioica</i> against cisplatin-induced toxicity in mice bearing Ehrlich ascites carcinoma. <i>Drug and Chemical Toxicology</i> , 2012, 35, 251-257.	2.3	29
226	Antioxidant, Antimicrobial, 15â€LOX, and AGEs Inhibitions by Pineapple Stem Waste. <i>Journal of Food Science</i> , 2012, 77, H9-15.	3.1	25
227	Kinetics and molecular docking studies of kaempferol and its prenylated derivatives as aldose reductase inhibitors. <i>Chemico-Biological Interactions</i> , 2012, 197, 110-118.	4.0	16
228	Inhibition of aldose reductase and anti-cataract action of trans-anethole isolated from <i>Foeniculum vulgare</i> Mill. fruits. <i>Food Chemistry</i> , 2012, 132, 385-390.	8.2	57
229	Effect of iridoid glucoside on streptozotocin induced diabetic rats and its role in regulating carbohydrate metabolic enzymes. <i>European Journal of Pharmacology</i> , 2012, 674, 460-467.	3.5	22
230	Taurine 8. <i>Advances in Experimental Medicine and Biology</i> , 2013, , .	1.6	1
232	Oxidative Stress in Diabetes. <i>Advances in Experimental Medicine and Biology</i> , 2013, 771, 272-287.	1.6	78
233	Exercise and Type 1 Diabetes (T1DM). , 2013, 3, 1309-1336.		99
234	Kinetics and molecular docking studies of an anti-diabetic complication inhibitor fucosterol from edible brown algae <i>Eisenia bicyclis</i> and <i>Ecklonia stolonifera</i> . <i>Chemico-Biological Interactions</i> , 2013, 206, 55-62.	4.0	59
235	Dietary sugars affect cold tolerance of <i>Drosophila melanogaster</i> . <i>Metabolomics</i> , 2013, 9, 608-622.	3.0	48
236	Impairment of calcium ATPases by high glucose and potential pharmacological protection. <i>Free Radical Research</i> , 2013, 47, 81-92.	3.3	25
237	New protein glycation inhibitory free radical scavenging compound from <i>Duranta repens</i> L.. <i>Journal of Pharmacy Research</i> , 2013, 7, 162-166.	0.4	5
238	Using space-based investigations to inform cancer research on Earth. <i>Nature Reviews Cancer</i> , 2013, 13, 315-327.	28.4	117
239	Therapeutic Potential of Some Plant Extracts Used in Turkish Traditional Medicine on Streptozocin-Induced Type 1 Diabetes Mellitus in Rats. <i>Journal of Membrane Biology</i> , 2013, 246, 47-55.	2.1	58
240	Protection by Taurine and Thiotaurine Against Biochemical and Cellular Alterations Induced by Diabetes in a Rat Model. <i>Advances in Experimental Medicine and Biology</i> , 2013, 775, 321-343.	1.6	22
241	The pathogenesis of diabetic nephropathy: focus on microRNAs and proteomics. <i>Journal of Nephrology</i> , 2013, 26, 811-820.	2.0	39

#	ARTICLE	IF	CITATIONS
242	Diabetic Peripheral Neuropathy: Role of Reactive Oxygen and Nitrogen Species. Cell Biochemistry and Biophysics, 2013, 67, 373-383.	1.8	35
243	Increased oxidative stress in obesity: Implications for metabolic syndrome, diabetes, hypertension, dyslipidemia, atherosclerosis, and cancer. Obesity Research and Clinical Practice, 2013, 7, e330-e341.	1.8	489
244	Diabetes and vascular disease: pathophysiology, clinical consequences, and medical therapy: part I. European Heart Journal, 2013, 34, 2436-2443.	2.2	870
245	Scopoletin Inhibits Rat Aldose Reductase Activity and Cataractogenesis in Galactose-Fed Rats. Evidence-based Complementary and Alternative Medicine, 2013, 2013, 1-8.	1.2	11
246	Investigation of oxidative and antioxidative status in patients with diabetic cataracts. Turkish Journal of Medical Sciences, 2013, 43, 678-683.	0.9	3
247	Oxidative Stress as an Underlying Contributor in the Development of Chronic Complications in Diabetes Mellitus. International Journal of Molecular Sciences, 2013, 14, 3265-3284.	4.1	152
248	Myoinositol: A new marker of intrauterine growth restriction?. Journal of Obstetrics and Gynaecology, 2013, 33, 776-780.	0.9	31
249	1,2-Naphthoquinone Stimulates Lipid Peroxidation and Cholesterol Domain Formation in Model Membranes. , 2013, 54, 7189.		11
250	Oral Administration of Ginseng Ameliorates Cyclosporine-Induced Pancreatic Injury in an Experimental Mouse Model. PLoS ONE, 2013, 8, e72685.	2.5	20
251	Bilateral cataracts and insulin oedema in a child with type 1 diabetes mellitus. BMJ Case Reports, 2013, 2013, bcr2012008235-bcr2012008235.	0.5	7
252	From Animal Models to Clinical Practicality: Lessons Learned from Current Translational Progress of Diabetic Peripheral Neuropathy. , 2013, , .		3
253	Evaluation of Neonatal Streptozotocin Induced Diabetic Rat Model for the Development of Cataract. Oxidative Medicine and Cellular Longevity, 2014, 2014, 1-10.	4.0	27
254	The Combined Extract of Purple Waxy Corn and Ginger Prevents Cataractogenesis and Retinopathy in Streptozotocin-Diabetic Rats. Oxidative Medicine and Cellular Longevity, 2014, 2014, 1-11.	4.0	25
255	Causes of Neurodegeneration in Diabetes: Possible Culprits and Therapeutic Targets. Brain Disorders & Therapy, 2014, 03, .	0.1	9
256	Oxidative Stress in Metabolic Disorders/Diseases. , 2014, , 55-83.		0
257	Pathogenesis of Chronic Hyperglycemia: From Reductive Stress to Oxidative Stress. Journal of Diabetes Research, 2014, 2014, 1-11.	2.3	261
258	Reactive Oxygen Species. Journal of Bioequivalence & Bioavailability, 2014, 06, .	0.1	2
259	Preventative Effects of Ginkgo biloba Extract (EGb761) on High Glucose-Cultured Opacity of Rat Lens. Phytotherapy Research, 2014, 28, 767-773.	5.8	24



#	ARTICLE	IF	CITATIONS
260	Antidiabetic Botanicals and their Potential Benefits in the Management of Diabetes Mellitus. , 2014, , .		1
261	Polyphenols, Oxidative Stress, and Vascular Damage in Diabetes. , 2014, , 145-156.		4
262	Association of Diabetic Autonomic Neuropathy with Red Blood Cell Aldose Reductase Activity. Canadian Journal of Diabetes, 2014, 38, 22-25.	0.8	6
263	Role of Dietary and Endogenous Antioxidants in Diabetes. Critical Reviews in Food Science and Nutrition, 2014, 54, 1599-1616.	10.3	44
264	Lipoprotein (LDL and HDL) Oxidation in Diabetes Mellitus. Contemporary Diabetes, 2014, , 187-201.	0.0	0
265	Reversal of neurobehavioral and neurochemical alterations in STZ-induced diabetic rats by FeTMPyP, a peroxynitrite decomposition catalyst and 1,5-Isoquinolinediol a poly(ADP-ribose) polymerase inhibitor. Neurological Research, 2014, 36, 619-626.	1.3	23
266	Microgravity inhibition of lipopolysaccharide-induced tumor necrosis factor- $\alpha$ expression in macrophage cells. Inflammation Research, 2014, 63, 91-98.	4.0	30
267	Synthesis and biological evaluation of new epalrestat analogues as aldose reductase inhibitors (ARIs). European Journal of Medicinal Chemistry, 2014, 71, 53-66.	5.5	58
268	Diabetes and immunity to tuberculosis. European Journal of Immunology, 2014, 44, 617-626.	2.9	169
269	Inhibition of diabetic-cataract by vitamin K1 involves modulation of hyperglycemia-induced alterations to lens calcium homeostasis. Experimental Eye Research, 2014, 128, 73-82.	2.6	34
270	Oxidative Stress and Diabetic Neuropathy. , 2014, , 3-13.		8
271	Additive effect of aldose reductase Z-4 microsatellite polymorphism and glycaemic control on cataract development in type 2 diabetes. Journal of Diabetes and Its Complications, 2014, 28, 147-151.	2.3	8
272	Aldose reductase, glucose and cataracts. Journal of Diabetes and Its Complications, 2014, 28, 120-121.	2.3	4
273	In Vitro evaluation and monitoring of the expression level and localization of aldose reductase using functionalized quantum dots and EGFP. Biotechnology and Bioprocess Engineering, 2015, 20, 800-806.	2.6	1
274	Dual-color immunofluorescent labeling with quantum dots of the diabetes-associated proteins aldose reductase and Toll-like receptor 4 in&nbsp;the&nbsp;kidneys of diabetic rats. International Journal of Nanomedicine, 2015, 10, 3651.	6.7	6
275	Ameliorative potentials of medicinal plants on the pathophysiological complications of diabetes mellitus: A review. Journal of Medicinal Plants Research, 2015, 9, 262-288.	0.4	10
276	Updates on Aldose Reductase Inhibitors for Management of Diabetic Complications and Non-diabetic Diseases. Mini-Reviews in Medicinal Chemistry, 2015, 16, 120-162.	2.4	144
277	Identification of Novel Aldose Reductase Inhibitors from Spices: A Molecular Docking and Simulation Study. PLoS ONE, 2015, 10, e0138186.	2.5	49



#	ARTICLE	IF	CITATIONS
278	Advanced glycation end-products: modifiable environmental factors profoundly mediate insulin resistance. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2015, 57, 1-12.	1.4	73
279	Hyperglycaemic Environment: Contribution to the Anaemia Associated with Diabetes Mellitus in Rats Experimentally Induced with Alloxan. <i>Anemia</i> , 2015, 2015, 1-6.	1.7	6
280	Korean red ginseng extract rejuvenates testicular ineffectiveness and sperm maturation process in aged rats by regulating redox proteins and oxidative defense mechanisms. <i>Experimental Gerontology</i> , 2015, 69, 94-102.	2.8	39
281	Synthesis of optically pure (S)-2-amino-5-arylpen-4-ynoic acids by Sonogashira reactions and their potential use as highly selective potent inhibitors of aldose reductase. <i>RSC Advances</i> , 2015, 5, 107400-107412.	3.6	12
282	Adrenomedullin is a key Protein Mediating Rotary Cell Culture System that Induces the Effects of Simulated Microgravity on Human Breast Cancer Cells. <i>Microgravity Science and Technology</i> , 2015, 27, 417-426.	1.4	6
283	Oxidative Stress and Diabetes. , 2015, , 241-257.		1
284	Aldose reductase expression as a risk factor for cataract. <i>Chemico-Biological Interactions</i> , 2015, 234, 247-253.	4.0	54
285	Effects of two antioxidants; Î±-lipoic acid and fisetin against diabetic cataract in mice. <i>International Ophthalmology</i> , 2015, 35, 115-120.	1.4	16
286	Modulation of aldose reductase activity by aldose hemiacetals. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 2329-2339.	2.4	16
287	Dietary glycemic index, glycemic load and risk of age-related cataract extraction: a caseâ€“control study in Italy. <i>European Journal of Nutrition</i> , 2015, 54, 475-481.	3.9	5
288	Oxidative stress and DNA methylation regulation in the metabolic syndrome. <i>Epigenomics</i> , 2015, 7, 283-300.	2.1	70
289	Anthocyanin-rich extract from <i>Hibiscus sabdariffa</i> calyx counteracts UVC-caused impairments in rats. <i>Pharmaceutical Biology</i> , 2015, 53, 1435-1441.	2.9	16
290	Ameliorative effects of thymoquinone against eye lens changes in streptozotocin diabetic rats. <i>Environmental Toxicology and Pharmacology</i> , 2015, 40, 960-965.	4.0	15
291	Metabolome and proteome changes with aging in <i>Caenorhabditis elegans</i> . <i>Experimental Gerontology</i> , 2015, 72, 67-84.	2.8	60
292	Deficiency of aldose reductase attenuates inner retinal neuronal changes in a mouse model of retinopathy of prematurity. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2015, 253, 1503-1513.	1.9	21
293	The Role and Prevalence of Polyol Pathway and Oxidative Stress Markers as Risk Factors for Diabetic Cataract in Adult Type-I Diabetic and Diabetic Cataract Saudi Patients. <i>Journal of Clinical &amp; Experimental Ophthalmology</i> , 2016, 7, .	0.1	2
294	ANTI-DIABETIC AND ALDOSE REDUCTASE INHIBITORY POTENTIAL OF PSIDILUM GUAJAVA BY IN VITRO ANALYSIS. <i>International Journal of Pharmacy and Pharmaceutical Sciences</i> , 2016, 8, 271.	0.3	26
295	Chronic mTOR Inhibition by Rapamycin and Diabetes. , 2016, , 365-378.		0

#	ARTICLE	IF	CITATIONS
296	Effects of the New Aldose Reductase Inhibitor Benzofuroxane Derivative BF-5m on High Glucose Induced Prolongation of Cardiac QT Interval and Increase of Coronary Perfusion Pressure. Journal of Diabetes Research, 2016, 2016, 1-8.	2.3	3
297	Propolis, a Constituent of Honey, Inhibits the Development of Sugar Cataracts and High-Glucose-Induced Reactive Oxygen Species in Rat Lenses. Journal of Ophthalmology, 2016, 2016, 1-6.	1.3	7
298	Hyperglycemic Stress and Carbon Stress in Diabetic Glucotoxicity. , 2016, 7, 90.		99
299	Selenoprotein R Protects Human Lens Epithelial Cells against D-Galactose-Induced Apoptosis by Regulating Oxidative Stress and Endoplasmic Reticulum Stress. International Journal of Molecular Sciences, 2016, 17, 231.	4.1	25
300	Sources and implications of NADH/NAD <sup>+</sup> redox imbalance in diabetes and its complications. Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy, 2016, 9, 145.	2.4	85
301	Investigation of synergistic mechanism and identification of interaction site of aldose reductase with the combination of gigantol and syringic acid for prevention of diabetic cataract. BMC Complementary and Alternative Medicine, 2016, 16, 286.	3.7	15
303	Calpain and Caspase-12 Expression in Lens Epithelial Cells of Diabetic Cataracts. American Journal of Ophthalmology, 2016, 167, 31-37.	3.3	17
304	Assessment of the redox status in patients with metabolic syndrome and type 2 diabetes reveals great variations. Experimental and Therapeutic Medicine, 2016, 11, 895-903.	1.8	35
305	The Role of Mitochondria in Diabetic Kidney Disease. Current Diabetes Reports, 2016, 16, 61.	4.2	74
306	Aldose reductase, ocular diabetic complications and the development of topical Kinostat®. Progress in Retinal and Eye Research, 2016, 54, 1-29.	15.5	58
307	Hyperglycemia Induces Toll-Like Receptor Activity Through Increased Oxidative Stress. Metabolic Syndrome and Related Disorders, 2016, 14, 239-241.	1.3	26
308	Increased Vitreous Chemerin Levels Are Associated with Proliferative Diabetic Retinopathy. Ophthalmologica, 2016, 236, 61-66.	1.9	6
309	Association of aldose reductase gene ( AKR1B1 ) polymorphism with diabetic retinopathy. Diabetes Research and Clinical Practice, 2016, 121, 41-48.	2.8	26
310	Protective effect of Tephrosia purpurea in diabetic cataract through aldose reductase inhibitory activity. Biomedicine and Pharmacotherapy, 2016, 83, 221-228.	5.6	26
311	A simple and convenient method for the preparation of antioxidant peptides from walnut (Juglans) Tj ETQq0 0 0 rgBTj/Overlock 10 Tf 50	2.6	37
312	Curcumin as potential therapeutic natural product: a nanobiotechnological perspective. Journal of Pharmacy and Pharmacology, 2016, 68, 1481-1500.	2.4	133
313	Gravisensitivity of endothelial cells: the role of cytoskeleton and adhesion molecules. Human Physiology, 2016, 42, 687-693.	0.4	9
314	The effect of melatonin on spinal cord after ischemia in rats. Spinal Cord, 2016, 54, 360-363.	1.9	23

#	ARTICLE	IF	CITATIONS
315	Featured Article: Inhibition of diabetic cataract by glucose tolerance factor extracted from yeast. <i>Experimental Biology and Medicine</i> , 2016, 241, 817-829.	2.4	9
316	Metabolic syndrome and eye diseases. <i>Diabetes Research and Clinical Practice</i> , 2016, 113, 86-100.	2.8	37
317	Cytomorphometric study of epithelial cells in normal and cataractous human lenses in relation with hyperglycemia. <i>International Ophthalmology</i> , 2016, 36, 147-158.	1.4	1
318	Assessment of Oxidative Stress Markers and Carotid Artery Intima-Media Thickness in Elderly Patients Without and with Coronary Artery Disease. <i>Indian Journal of Clinical Biochemistry</i> , 2016, 31, 278-285.	1.9	10
319	Healing enhancement of diabetic wounds by locally infiltrated epidermal growth factor is associated with systemic oxidative stress reduction. <i>International Wound Journal</i> , 2017, 14, 214-225.	2.9	33
320	Identification of potential antioxidant indices by biogenic gold nanoparticles in hyperglycemic Wistar rats. <i>Environmental Toxicology and Pharmacology</i> , 2017, 50, 11-19.	4.0	31
321	Aldose reductase (AKR1B) deficiency promotes phagocytosis in bone marrow derived mouse macrophages. <i>Chemico-Biological Interactions</i> , 2017, 265, 16-23.	4.0	11
322	Edible vegetables as a source of aldose reductase differential inhibitors. <i>Chemico-Biological Interactions</i> , 2017, 276, 155-159.	4.0	10
323	Gravireceptors in eukaryotes—a comparison of case studies on the cellular level. <i>Npj Microgravity</i> , 2017, 3, 13.	3.7	56
324	Determination of flavonoids from <i>Perilla frutescens</i> var. <i>japonica</i> seeds and their inhibitory effect on aldose reductase. <i>Applied Biological Chemistry</i> , 2017, 60, 155-162.	1.9	12
325	Hyperglycemia and high nitric oxide level induced oxidative stress in the brain and molecular alteration in the neurons and glial cells of laboratory mouse, <i>Mus musculus</i> . <i>Neurochemistry International</i> , 2017, 104, 64-79.	3.8	32
326	Redox imbalance and mitochondrial abnormalities in the diabetic lung. <i>Redox Biology</i> , 2017, 11, 51-59.	9.0	64
327	The role of declining adaptive homeostasis in ageing. <i>Journal of Physiology</i> , 2017, 595, 7275-7309.	2.9	136
328	Pancreatic mitochondrial complex I exhibits aberrant hyperactivity in diabetes. <i>Biochemistry and Biophysics Reports</i> , 2017, 11, 119-129.	1.3	40
329	Determination of flavonoids from <i>Cirsium japonicum</i> var. <i>maackii</i> and their inhibitory activities against aldose reductase. <i>Applied Biological Chemistry</i> , 2017, 60, 487-496.	1.9	31
330	Time-averaged simulated microgravity (taSMG) inhibits proliferation of lymphoma cells, L-540 and HDLM-2, using a 3D clinostat. <i>BioMedical Engineering OnLine</i> , 2017, 16, 48.	2.7	29
331	Reductive Stress in Inflammation-Associated Diseases and the Pro-Oxidant Effect of Antioxidant Agents. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2098.	4.1	150
332	Identification of proteins in the aqueous humor associated with cataract development using iTRAQ methodology. <i>Molecular Medicine Reports</i> , 2017, 15, 3111-3120.	2.4	12

#	ARTICLE	IF	CITATIONS
333	Reduction of oxidative-nitrosative stress underlies anticataract effect of topically applied tocotrienol in streptozotocin-induced diabetic rats. PLoS ONE, 2017, 12, e0174542.	2.5	26
334	Animal Models in Cataract Research. , 2017, , 103-116.		0
335	The human brain produces fructose from glucose. JCI Insight, 2017, 2, e90508.	5.0	58
336	Diabetic nephropathy: Is there a role for oxidative stress?. Free Radical Biology and Medicine, 2018, 116, 50-63.	2.9	152
337	Redox imbalance stress in diabetes mellitus: Role of the polyol pathway. Animal Models and Experimental Medicine, 2018, 1, 7-13.	3.3	172
338	Inhibition of C298S mutant of human aldose reductase for antidiabetic applications: Evidence from in silico elementary mode analysis of biological network model. Journal of Cellular Biochemistry, 2018, 119, 6961-6973.	2.6	18
339	The Warburg Effect in Diabetic Kidney Disease. Seminars in Nephrology, 2018, 38, 111-120.	1.6	75
340	Oxidative stress induces renal failure: A review of possible molecular pathways. Journal of Cellular Biochemistry, 2018, 119, 2990-2998.	2.6	66
341	Maternal Cognitive Impairment Associated with Gestational Diabetes Mellitusâ€”A Review of Potential Contributing Mechanisms. International Journal of Molecular Sciences, 2018, 19, 3894.	4.1	23
342	Prognosis of diabetes complications and efficacy of <i>Guiera senegalensis</i> aqueous leaf extract in streptozotocin induced-diabetic rats. Journal of Applied Sciences and Environmental Management, 2018, 22, 1325.	0.1	0
343	Anti-cataract Effect of Resveratrol in High-Glucose-Treated Streptozotocin-Induced Diabetic Rats. Biological and Pharmaceutical Bulletin, 2018, 41, 1586-1592.	1.4	29
344	Cataract Preventive Role of Isolated Phytoconstituents: Findings from a Decade of Research. Nutrients, 2018, 10, 1580.	4.1	16
345	Molecular mechanism of diabetic neuropathy and its pharmacotherapeutic targets. European Journal of Pharmacology, 2018, 833, 472-523.	3.5	190
346	Metabolomics applied to the discovery of tuberculosis and diabetes mellitus biomarkers. Biomarkers in Medicine, 2018, 12, 1001-1013.	1.4	8
347	Design, Synthesis and in Combo Antidiabetic Bioevaluation of Multitarget Phenylpropanoic Acids. Molecules, 2018, 23, 340.	3.8	33
348	Asthma and allergic rhinitis associate with the <i>rs2229542</i> variant that induces a p.Lys90Glu mutation and compromises AKR1B1 protein levels. Human Mutation, 2018, 39, 1081-1091.	2.5	4
349	Aldose Reductase Inhibition Prevents Development of Posterior Capsular Opacification in an In Vivo Model of Cataract Surgery. , 2018, 59, 3591.		27
350	Supplementary Nitric Oxide Donors and Exercise as Potential Means to Improve Vascular Health in People with Type 1 Diabetes: Yes to NO?. Nutrients, 2019, 11, 1571.	4.1	12

#	ARTICLE	IF	CITATIONS
351	Vitamin K1 prevents diabetic cataract by inhibiting lens aldose reductase 2 (ALR2) activity. Scientific Reports, 2019, 9, 14684.	3.3	13
352	Vascular and Neuronal Protection in the Developing Retina: Potential Therapeutic Targets for Retinopathy of Prematurity. International Journal of Molecular Sciences, 2019, 20, 4321.	4.1	19
353	Autoregenerative redox nanoparticles as an antioxidant and glycation inhibitor for palliation of diabetic cataracts. Nanoscale, 2019, 11, 13126-13138.	5.6	31
354	Probucol Slows the Progression of Cataracts in Streptozotocin-Induced Hyperglycemic Rats. Pharmacology, 2019, 103, 212-219.	2.2	4
355	Evaluation of diabetes mellitus regulation in dogs treated with ophthalmic preparations of prednisolone acetate versus diclofenac sodium. American Journal of Veterinary Research, 2019, 80, 1129-1135.	0.6	5
356	Mitochondria-related reversal of early-stage diabetic nephropathy in donor kidney after transplantation in mice. Annals of Translational Medicine, 2019, 7, 801-801.	1.7	4
357	A systematic review of risk factors for cataract in type 2 diabetes. Diabetes/Metabolism Research and Reviews, 2019, 35, e3073.	4.0	58
358	Incidence and Determinants of Intraocular Lens Implantation in Type 2 Diabetes: The Fremantle Diabetes Study Phase II. Diabetes Care, 2019, 42, 288-296.	8.6	10
359	Nrf2, a novel molecular target to reduce type 1 diabetes associated secondary complications: The basic considerations. European Journal of Pharmacology, 2019, 843, 12-26.	3.5	21
360	Understanding Biochemical and Molecular Mechanism of Complications of Glycation and Its Management by Herbal Medicine. , 2019, , 331-366.		4
361	Relationship between aldose reductase enzyme and the signaling pathway of protein kinase C in an in vitro diabetic retinopathy model. Canadian Journal of Physiology and Pharmacology, 2020, 98, 243-251.	1.4	12
362	Manufacturing and Control of a Robotic Device for Time-averaged Simulated Micro and Partial Gravity of a Cell Culture Environment. International Journal of Control, Automation and Systems, 2020, 18, 53-64.	2.7	2
363	Pancreatic $\beta$ -cells respond to fuel pressure with an early metabolic switch. Scientific Reports, 2020, 10, 15413.	3.3	5
364	Prevention of Diabetic Complications by Walnut Leaf Extract via Changing Aldose Reductase Activity: An Experiment in Diabetic Rat Tissue. Journal of Diabetes Research, 2020, 2020, 1-8.	2.3	4
365	Fructose Metabolism in Cancer. Cells, 2020, 9, 2635.	4.1	37
366	Oxidative stress and diabetic neuropathy. , 2020, , 13-23.		0
367	In vitro studies of potent aldose reductase inhibitors: Synthesis, characterization, biological evaluation and docking analysis of rhodanine-3-hippuric acid derivatives. Bioorganic Chemistry, 2020, 97, 103640.	4.1	19
368	A primer on metabolic memory: why existing diabetes treatments fail. CKJ: Clinical Kidney Journal, 2021, 14, 756-767.	2.9	2

#	ARTICLE	IF	CITATIONS
369	Topical nerve growth factor attenuates streptozotocin-induced diabetic cataracts via polyol pathway inhibition and Na <sup>+</sup> /K <sup>+</sup> -ATPase upregulation. <i>Experimental Eye Research</i> , 2021, 202, 108319.	2.6	3
370	Mapping glucose metabolites in the normal bovine lens: Evaluation and optimisation of a matrix-assisted laser desorption/ionisation imaging mass spectrometry method. <i>Journal of Mass Spectrometry</i> , 2021, 56, e4666.	1.6	4
371	Molecular Insights of Diabetic Complications and Future Targets for Therapy. <i>Asian Journal of Biological and Life Sciences</i> , 2021, 9, 286-293.	0.3	0
372	Aldose Reductase and the Polyol Pathway in Schwann Cells: Old and New Problems. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1031.	4.1	30
373	Stress hyperglycemia, cardiac glucotoxicity, and critically ill patient outcomes current clinical and pathophysiological evidence. <i>Physiological Reports</i> , 2021, 9, e14713.	1.7	18
374	The Importance of Rhodanine Scaffold in Medicinal Chemistry: A Comprehensive Overview. <i>Mini-Reviews in Medicinal Chemistry</i> , 2021, 21, 738-789.	2.4	11
375	Aldose Reductase: An Emerging Target for Development of Interventions for Diabetic Cardiovascular Complications. <i>Frontiers in Endocrinology</i> , 2021, 12, 636267.	3.5	47
377	Multifunctional agents based on benzoxazolone as promising therapeutic drugs for diabetic nephropathy. <i>European Journal of Medicinal Chemistry</i> , 2021, 215, 113269.	5.5	6
378	In vitro study of protective effect of <i>Pterocarpus erinaceus</i> Poir. stem bark and <i>Amaranthus spinosus</i> L. root extracts on cataractogenesis and glomerulopathy. <i>Bulletin of the National Research Centre</i> , 2021, 45, .	1.8	2
379	Diabetic neuropathy: an insight on the transition from synthetic drugs to herbal therapies. <i>Journal of Diabetes and Metabolic Disorders</i> , 2021, 20, 1773-1784.	1.9	7
380	Diabetes and peripheral artery disease: A review. <i>World Journal of Diabetes</i> , 2021, 12, 827-838.	3.5	57
381	Autophagy: A Novel Pharmacological Target in Diabetic Retinopathy. <i>Frontiers in Pharmacology</i> , 2021, 12, 695267.	3.5	16
382	Diabetes-Independent Retinal Phenotypes in an Aldose Reductase Transgenic Mouse Model. <i>Metabolites</i> , 2021, 11, 450.	2.9	5
383	Design, synthesis and biological evaluation of selective hybrid coumarin-thiazolidinedione aldose reductase-II inhibitors as potential antidiabetics. <i>Bioorganic Chemistry</i> , 2021, 114, 104970.	4.1	8
384	The nexus between redox state and intermediary metabolism. <i>FEBS Journal</i> , 2022, 289, 5440-5462.	4.7	7
385	Normalizing HIF-1 $\alpha$ Signaling Improves Cellular Glucose Metabolism and Blocks the Pathological Pathways of Hyperglycemic Damage. <i>Biomedicines</i> , 2021, 9, 1139.	3.2	12
386	Development of coumarin-thiosemicarbazone hybrids as aldose reductase inhibitors: Biological assays, molecular docking, simulation studies and ADME evaluation. <i>Bioorganic Chemistry</i> , 2021, 115, 105164.	4.1	15
387	Retinal Protein O-GlcNAcylation and the Ocular Renin Angiotensin System: Signaling Cross-Roads in Diabetic Retinopathy. <i>Current Diabetes Reviews</i> , 2021, 17, .	1.3	2

#	ARTICLE	IF	CITATIONS
388	Oxidative Stress in Type 2 Diabetes Mellitus. , 2008, , 191-211.		7
389	Controversies in Treating Diabetes. , 2008, , .		3
390	Taurine Can Enhance the Protective Actions of Metformin Against Diabetes-Induced Alterations Adversely Affecting Renal Function. Advances in Experimental Medicine and Biology, 2015, 803, 227-250.	1.6	11
391	Polyols. , 2008, , 473-482.		2
392	Oxidative Stress and Excitatory Neurotoxins in Neuropathy. , 2005, , 509-533.		1
393	Complications of Diabetes Mellitus. , 2011, , 1462-1551.		8
394	Relationship of Cytokines and Age Products in Diabetic and Non-Diabetic Patients with Cataract. International Journal of Health Sciences, 2016, 10, 487-494.	0.4	8
395	Estimation of Aldose Reductase Activity and Malondialdehyde Levels in Patients with Type 2 Diabetes Mellitus. Biomedical and Pharmacology Journal, 2019, 12, 1001-1007.	0.5	3
396	Evaluation of calcium dobesilate for its anti-cataract potential in experimental animal models. Methods and Findings in Experimental and Clinical Pharmacology, 2010, 32, 171.	0.8	8
397	A New Approach to Control the Enigmatic Activity of Aldose Reductase. PLoS ONE, 2013, 8, e74076.	2.5	39
398	Piperine, a Natural Bioenhancer, Nullifies the Antidiabetic and Antioxidant Activities of Curcumin in Streptozotocin-Diabetic Rats. PLoS ONE, 2014, 9, e113993.	2.5	60
399	Fructose Levels Are Markedly Elevated in Cerebrospinal Fluid Compared to Plasma in Pregnant Women. PLoS ONE, 2015, 10, e0128582.	2.5	22
400	Lens metabolomic profiling as a tool to understand cataractogenesis in Atlantic salmon and rainbow trout reared at optimum and high temperature. PLoS ONE, 2017, 12, e0175491.	2.5	20
401	Diabetes-induced oxidative stress mediates upregulation of RhoA/Rho kinase pathway and hypercontractility of gastric smooth muscle. PLoS ONE, 2017, 12, e0178574.	2.5	20
402	Oxidative stress in diabetes mellitus. Integrative Obesity and Diabetes, 2015, 1, .	0.2	40
403	A novel thiazolidinediones ATZD2 rescues memory deficits in a rat model of type 2 diabetes through antioxidant and antiinflammation. Oncotarget, 2017, 8, 107409-107422.	1.8	13
404	Pericyte Loss in Diabetic Retinopathy: Mechanisms and Consequences. Current Medicinal Chemistry, 2013, 20, 3218-3225.	2.4	222
405	Standard and Emerging Treatment Options for Diabetic Neuropathy. Current Pharmaceutical Design, 2014, 20, 3689-3704.	1.9	10



#	ARTICLE	IF	CITATIONS
406	Natural Compounds as Source of Aldose Reductase (AR) Inhibitors for the Treatment of Diabetic Complications: A Mini Review. <i>Current Drug Metabolism</i> , 2020, 21, 1091-1116.	1.2	14
407	Mechanisms of Protective Effects of SGLT2 Inhibitors in Cardiovascular Disease and Renal Dysfunction. <i>Current Topics in Medicinal Chemistry</i> , 2019, 19, 1818-1849.	2.1	22
408	Atorvastatin reduces the expression of ald-keto reductases in HUVEC and PTEC. A new approach to influence the polyol pathway. <i>Clinical and Investigative Medicine</i> , 2009, 32, 219.	0.6	10
409	Oxidative status and its relation with insulin resistance in young non-obese women with polycystic ovary syndrome. <i>Journal of Endocrinological Investigation</i> , 2012, 35, 317-21.	3.3	33
410	Glycemic Variability and CNS Inflammation: Reviewing the Connection. <i>Nutrients</i> , 2020, 12, 3906.	4.1	32
411	Rhodanine as a Scaffold: A Short Review on Its Synthesis and Anti-Diabetic Activities. <i>Heterocycles</i> , 2018, 96, 803.	0.7	4
412	Thymol, a monoterpene, inhibits aldose reductase and high-glucose-induced cataract on isolated goat lens. <i>Journal of Pharmacy and Bioallied Sciences</i> , 2016, 8, 277.	0.6	7
413	Pathogenesis of diabetic cerebral vascular disease complication. <i>World Journal of Diabetes</i> , 2015, 6, 54.	3.5	25
414	Effect Of Vitamin On Malondialdehyde And Glutathione Levels In Type 2 Diabetic Nigerians. <i>The Internet Journal of Nutrition and Wellness</i> , 2009, 7, .	0.0	2
415	Antioxidant, Antliglycation and Antimicrobial Activities of <i>Ziziphus oxyphylla</i> and <i>Cedrela serrata</i> Extracts. <i>European Journal of Medicinal Plants</i> , 2013, 3, 520-529.	0.5	15
416	Reported evidence of vitamin E protection against cataract and glaucoma. <i>Free Radical Biology and Medicine</i> , 2021, 177, 100-119.	2.9	19
418	The Role of Oxidative Imbalance in Diabetes Mellitus. <i>Oxidative Stress and Disease</i> , 2003, , .	0.3	0
420	Renal Microvascular Injury in Diabetes: RAGE and Redox Signaling. <i>Antioxidants and Redox Signaling</i> , 2006, , .	5.4	0
421	Đ-LIPOIC ACID PREPARATIONS IN THE TREATMENT OF DIABETIC NEUROPATHY. <i>Nevrologiya, Neiropsikhiatriya, Psikhosomatika</i> , 2009, , .	1.2	0
422	Role of Oxidative Stress and Targeted Antioxidant Therapies in Experimental Models of Diabetic Complications. , 2011, , 3-38.		0
423	Aldose Reductase and Diabetic Cardiovascular Disease. , 2014, , 143-158.		0
424	Changes in the Oxidative Stress Biomarkers in Liver of Streptozotocin-diabetic Rats Treated with <i>Combretum lanceolatum</i> Flowers Extract. <i>British Journal of Pharmaceutical Research</i> , 2014, 4, 2340-2356.	0.4	1
425	Relationship between Initial Lens Transparency and Ocular Circulation in Adolescents with Type-1 Diabetes Mellitus, Unstable Glycaemia and Lipid Parameters. <i>Polski Przegląd Radiologii I Medycyny Nuklearnej</i> , 2014, 79, 472-478.	1.0	1



#	ARTICLE	IF	CITATIONS
426	Antioxidant Enzymes in Gestational Diabetes: A Study on a Kuwaiti Population. Bioenergetics: Open Access, 2014, 03, .	0.1	0
427	A New Approach for the Treatment of Diabetes and Nicotine Induced Cataract by Modulating Specific Ion-Channels Function in Rat Lens. British Journal of Pharmaceutical Research, 2015, 5, 228-240.	0.4	1
428	O EFEITO DO USO DE ANTIOXIDANTES NA PREVENÇÃO E TRATAMENTO DA NEUROPATIA DIABÉTICA NO SISTEMA NERVOSO ENTÉRICO. Arquivos De Ciências Da Saúde De Da UNIPAR, 2015, 19, .	0.2	0
429	COMPARATIVE STUDY TO GINSENG AND CINNAMON WATER EXTRACT ON DIABETIC ADULT MALE ALBINO RAT. Al Azhar Medical Journal = Majallat Al-Tibb Al-Azhar, 2016, 45, 527-544.	0.1	1
430	Glycemic Index and Eye Health. , 2016, , 219-271.		0
431	Cell Biology in Space. SpringerBriefs in Space Life Sciences, 2017, , 59-72.	0.1	1
432	TYPE 2 DIABETES MELLITUS AND CORONARY HEART DISEASE. Acta Biomedica Scientifica, 2017, 2, 100-106.	0.2	1
433	Electron Microscopic Investigation of Anterior Lens Capsule and Epithelium in Patients with Diabetes Mellitus. International Journal of Clinical Medicine, 2018, 09, 778-786.	0.2	1
434	Olanzapine-induced Cataract in a Teenage Girl. Cureus, 2018, 10, e2553.	0.5	1
435	Contribution of Aldose Reductase-Mediated Oxidative Stress Signaling in Inflammatory Lung Diseases. , 2019, , 225-246.		1
436	Neuropathic pain: mechanisms of development, principles of diagnostics and treatment. Pain Medicine, 2019, 4, 4-32.	0.1	2
437	Metabolismus. , 2005, , 65-74.		0
439	Unifying Hypothesis of Diabetic Complications. , 2008, , 233-249.		1
440	Current concepts in targeted therapies for the pathophysiology of diabetic microvascular complications. Vascular Health and Risk Management, 2007, 3, 823-32.	2.3	33
441	Activation of sorbitol pathway in metabolic syndrome and increased susceptibility to cataract in Wistar-Obese rats. Molecular Vision, 2012, 18, 495-503.	1.1	33
443	Plants used in the management of diabetic complications. Indian Journal of Pharmaceutical Sciences, 2014, 76, 97-106.	1.0	17
444	Effects of topically applied tocotrienol on cataractogenesis and lens redox status in galactosemic rats. Molecular Vision, 2014, 20, 822-35.	1.1	17
445	Mechanism of the anticataract effect of liposomal MgT in galactose-fed rats. Molecular Vision, 2016, 22, 734-47.	1.1	7

#	ARTICLE	IF	CITATION
446	Relationship of cytokines and AGE products in diabetic and non-diabetic patients with cataract. International Journal of Health Sciences, 2016, 10, 507-515.	0.4	4
447	Unraveling and Targeting Myocardial Regeneration Deficit in Diabetes. Antioxidants, 2022, 11, 208.	5.1	12
448	The WWOX/HIF1A Axis Downregulation Alters Glucose Metabolism and Predispose to Metabolic Disorders. International Journal of Molecular Sciences, 2022, 23, 3326.	4.1	7
449	Type 2 Diabetes Contributes to Altered Adaptive Immune Responses and Vascular Inflammation in Patients With SARS-CoV-2 Infection. Frontiers in Immunology, 2022, 13, 833355.	4.8	8
450	Oxidative Stress-Induced TRPV2 Expression Increase Is Involved in Diabetic Cataracts and Apoptosis of Lens Epithelial Cells in a High-Glucose Environment. Cells, 2022, 11, 1196.	4.1	9
451	Synthesis and Aldose Reductase Inhibition Effects of Novel <i>N</i> -Benzyl-4-Methoxyaniline Derivatives. Chemistry and Biodiversity, 2022, 19, .	2.1	1
452	Natural aldose reductase inhibitors for treatment and prevention of diabetic cataract: A review. Herba Polonica, 2022, 68, 35-58.	0.6	1
453	MDM2-mediated ubiquitination of LKB1 contributes to the development of diabetic cataract. Experimental Cell Research, 2022, 417, 113191.	2.6	4
454	Biochemical mechanism underlying the pathogenesis of diabetic retinopathy and other diabetic complications in humans: the methanol-formaldehyde-formic acid hypothesis. Acta Biochimica Et Biophysica Sinica, 2022, 54, 415-451.	2.0	0
455	Bazı ve Metallerin Keçi (Capra aegagrus hircus) Bırkınde Aldoz Redüktaz ve Sorbitol Dehidrogenaz Enzimleri Üzerine Etkilerinin Araştırılması. Turkish Journal of Agricultural and Natural Sciences, 0, , .	0.6	0
456	Association of Audiometric Thresholds with HbA1c and Blood Lipid Levels. Metabolic Syndrome and Related Disorders, 0, , .	1.3	0
457	Anti-hyperalgesic effects of photobiomodulation therapy (904nm) on streptozotocin-induced diabetic neuropathy imply MAPK pathway and calcium dynamics modulation. Scientific Reports, 2022, 12, .	3.3	8
458	A Synopsis of the Associations of Oxidative Stress, ROS, and Antioxidants with Diabetes Mellitus. Antioxidants, 2022, 11, 2003.	5.1	25
459	Ischemic Stroke Impacts the Gut Microbiome, Ileal Epithelial and Immune Homeostasis. IScience, 2022, 25, 105437.	4.1	6
460	Drug repurposing – A search for novel therapy for the treatment of diabetic neuropathy. Biomedicine and Pharmacotherapy, 2022, 156, 113846.	5.6	4
462	Pre-hyperglycemia immune cell trafficking underlies subclinical diabetic cataractogenesis. Journal of Biomedical Science, 2023, 30, .	7.0	6
463	Factors Associated with Lower Risk of Cataract in Type 2 Diabetics: National Health Insurance Claims Data Study. , 2023, 2, 56-61.		0
464	Formulation and Characterization of Epalrestat-Loaded Polysorbate 60 Cationic Niosomes for Ocular Delivery. Pharmaceutics, 2023, 15, 1247.	4.5	5

#	ARTICLE	IF	CITATIONS
465	Influence of Nitrosyl Iron Complex with Thiosulfate Ligands on Therapeutically Important Targets Related to Type 2 Diabetes Mellitus. <i>Membranes</i> , 2023, 13, 615.	3.0	0
466	Inhibitory effect of Nifedipine on aldose reductase delays cataract progression. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 0, , .	3.0	0
467	Biochemical Analysis and Human Aldose Reductase Inhibition Activity of Selected Medicinal Plants of Nepal. <i>Journal of Chemistry</i> , 2023, 2023, 1-14.	1.9	0
468	Development of new thiazolidine-2,4-dione hybrids as aldose reductase inhibitors endowed with antihyperglycaemic activity: design, synthesis, biological investigations, and <i>in silico</i> insights. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2023, 38, .	5.2	1
469	Oxidative Stress and Its Regulation in Diabetic Retinopathy. <i>Antioxidants</i> , 2023, 12, 1649.	5.1	4
470	Effects of Angiotensin Receptor Blockers on Streptozotocin-Induced Diabetic Cataracts. <i>Journal of Clinical Medicine</i> , 2023, 12, 6627.	2.4	0
471	Aldo-Keto Reductase 1B: much learned, much more to do. , 2023, , .		0
472	Nrf2 Pathway and Oxidative Stress as a Common Target for Treatment of Diabetes and Its Comorbidities. <i>International Journal of Molecular Sciences</i> , 2024, 25, 821.	4.1	0
474	High glucose promotes osteogenic differentiation of human lens epithelial cells through hypoxia-inducible factor (HIF) activation. <i>Journal of Cellular Physiology</i> , 0, , .	4.1	0
475	High incidence of sebaceous gland inflammation in aldose reductase-deficient mice. <i>Chemico-Biological Interactions</i> , 2024, 392, 110905.	4.0	0
476	Glutamate is effective in decreasing opacity formed in galactose-induced cataract model. <i>Scientific Reports</i> , 2024, 14, .	3.3	0
477	HIF-1 inhibition reverses opacity in a rat model of galactose-induced cataract. <i>PLoS ONE</i> , 2024, 19, e0299145.	2.5	0
478	An updated review on diabetes mellitus: Exploring its etiology, pathophysiology, complications and treatment approach. <i>IP International Journal of Comprehensive and Advanced Pharmacology</i> , 2024, 9, 31-36.	0.3	0
479	Glycative stress as a cause of macular degeneration. <i>Progress in Retinal and Eye Research</i> , 2024, , 101260.	15.5	0
480	Association of oxidative stress and diabetes mellitus. , 2024, , 59-73.		0