

Lu Cai

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327
papers

12,928
citations

61
h-index

98
g-index

343
ext. papers

14,931
ext. citations

5.4
avg, IF

6.47
L-index

#	Paper	IF	Citations
327	Hyperglycemia-induced apoptosis in mouse myocardium: mitochondrial cytochrome C-mediated caspase-3 activation pathway. <i>Diabetes</i> , 2002 , 51, 1938-48	0.9	520
326	Biological stress response terminology: Integrating the concepts of adaptive response and preconditioning stress within a hormetic dose-response framework. <i>Toxicology and Applied Pharmacology</i> , 2007 , 222, 122-8	4.6	512
325	Attenuation by metallothionein of early cardiac cell death via suppression of mitochondrial oxidative stress results in a prevention of diabetic cardiomyopathy. <i>Journal of the American College of Cardiology</i> , 2006 , 48, 1688-97	15.1	281
324	Diabetic downregulation of Nrf2 activity via ERK contributes to oxidative stress-induced insulin resistance in cardiac cells in vitro and in vivo. <i>Diabetes</i> , 2011 , 60, 625-33	0.9	278
323	Oxidative stress and diabetic cardiomyopathy: a brief review. <i>Cardiovascular Toxicology</i> , 2001 , 1, 181-93	3.4	278
322	Attenuation by Metallothionein of Early Cardiac Cell Death via Suppression of Mitochondrial Oxidative Stress Results in a Prevention of Diabetic Cardiomyopathy. <i>Journal of the American College of Cardiology</i> , 2006 , 48, 1688-1697	15.1	236
321	Nrf2 is critical in defense against high glucose-induced oxidative damage in cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2009 , 46, 47-58	5.8	193
320	Prevention by sulforaphane of diabetic cardiomyopathy is associated with up-regulation of Nrf2 expression and transcription activation. <i>Journal of Molecular and Cellular Cardiology</i> , 2013 , 57, 82-95	5.8	188
319	Cardiac metallothionein induction plays the major role in the prevention of diabetic cardiomyopathy by zinc supplementation. <i>Circulation</i> , 2006 , 113, 544-54	16.7	183
318	Inhibition of superoxide generation and associated nitrosative damage is involved in metallothionein prevention of diabetic cardiomyopathy. <i>Diabetes</i> , 2005 , 54, 1829-37	0.9	172
317	Metallothionein in radiation exposure: its induction and protective role. <i>Toxicology</i> , 1999 , 132, 85-98	4.4	171
316	Advanced glycation end-products induce connective tissue growth factor-mediated renal fibrosis predominantly through transforming growth factor beta-independent pathway. <i>American Journal of Pathology</i> , 2004 , 165, 2033-43	5.8	147
315	Apoptotic germ-cell death and testicular damage in experimental diabetes: prevention by endothelin antagonism. <i>Urological Research</i> , 2000 , 28, 342-7		144
314	Cell death and diabetic cardiomyopathy. <i>Cardiovascular Toxicology</i> , 2003 , 3, 219-28	3.4	143
313	Mechanisms of diabetic cardiomyopathy and potential therapeutic strategies: preclinical and clinical evidence. <i>Nature Reviews Cardiology</i> , 2020 , 17, 585-607	14.8	139
312	Inhibition of JNK phosphorylation by a novel curcumin analog prevents high glucose-induced inflammation and apoptosis in cardiomyocytes and the development of diabetic cardiomyopathy. <i>Diabetes</i> , 2014 , 63, 3497-511	0.9	136
311	Induction of apoptosis in the germ cells of adult male rats after exposure to cyclophosphamide. <i>Biology of Reproduction</i> , 1997 , 56, 1490-7	3.9	131

310	Exacerbation of diabetes-induced testicular apoptosis by zinc deficiency is most likely associated with oxidative stress, p38 MAPK activation, and p53 activation in mice. <i>Toxicology Letters</i> , 2011 , 200, 100-6	4.4	130
309	Inactivation of GSK-3beta by metallothionein prevents diabetes-related changes in cardiac energy metabolism, inflammation, nitrosative damage, and remodeling. <i>Diabetes</i> , 2009 , 58, 1391-402	0.9	129
308	Sulforaphane prevents the development of cardiomyopathy in type 2 diabetic mice probably by reversing oxidative stress-induced inhibition of LKB1/AMPK pathway. <i>Journal of Molecular and Cellular Cardiology</i> , 2014 , 77, 42-52	5.8	124
307	Diabetic cardiomyopathy and its mechanisms: Role of oxidative stress and damage. <i>Journal of Diabetes Investigation</i> , 2014 , 5, 623-34	3.9	124
306	Acceleration of diabetic wound healing with chitosan-crosslinked collagen sponge containing recombinant human acidic fibroblast growth factor in healing-impaired STZ diabetic rats. <i>Life Sciences</i> , 2008 , 82, 190-204	6.8	121
305	Metallothionein inhibits peroxynitrite-induced DNA and lipoprotein damage. <i>Journal of Biological Chemistry</i> , 2000 , 275, 38957-60	5.4	120
304	The role of zinc, copper and iron in the pathogenesis of diabetes and diabetic complications: therapeutic effects by chelators. <i>Hemoglobin</i> , 2008 , 32, 135-45	0.6	117
303	Inhibition of high glucose-induced inflammatory response and macrophage infiltration by a novel curcumin derivative prevents renal injury in diabetic rats. <i>British Journal of Pharmacology</i> , 2012 , 166, 1169-82	8.6	115
302	Essentiality, toxicology and chelation therapy of zinc and copper. <i>Current Medicinal Chemistry</i> , 2005 , 12, 2753-63	4.3	115
301	Oxidative stress, diabetes, and diabetic complications. <i>Hemoglobin</i> , 2009 , 33, 370-7	0.6	114
300	Metallothionein suppresses angiotensin II-induced nicotinamide adenine dinucleotide phosphate oxidase activation, nitrosative stress, apoptosis, and pathological remodeling in the diabetic heart. <i>Journal of the American College of Cardiology</i> , 2008 , 52, 655-66	15.1	104
299	The low-dose ionizing radiation stimulates cell proliferation via activation of the MAPK/ERK pathway in rat cultured mesenchymal stem cells. <i>Journal of Radiation Research</i> , 2011 , 52, 380-6	2.4	98
298	Fenofibrate increases cardiac autophagy via FGF21/SIRT1 and prevents fibrosis and inflammation in the hearts of Type 1 diabetic mice. <i>Clinical Science</i> , 2016 , 130, 625-41	6.5	97
297	Prevention of diabetic nephropathy by sulforaphane: possible role of Nrf2 upregulation and activation. <i>Oxidative Medicine and Cellular Longevity</i> , 2012 , 2012, 821936	6.7	96
296	Prevention of diabetic complications by activation of Nrf2: diabetic cardiomyopathy and nephropathy. <i>Experimental Diabetes Research</i> , 2012 , 2012, 216512		94
295	Zinc homeostasis in the metabolic syndrome and diabetes. <i>Frontiers of Medicine</i> , 2013 , 7, 31-52	12	93
294	Interplay between Akt and p38 MAPK pathways in the regulation of renal tubular cell apoptosis associated with diabetic nephropathy. <i>American Journal of Physiology - Renal Physiology</i> , 2010 , 298, F49-413	4.1	90
293	Metallothionein Is Downstream of Nrf2 and Partially Mediates Sulforaphane Prevention of Diabetic Cardiomyopathy. <i>Diabetes</i> , 2017 , 66, 529-542	0.9	89

292	Endoplasmic reticulum stress and diabetic cardiomyopathy. <i>Experimental Diabetes Research</i> , 2012 , 2012, 827971		88
291	Sulforaphane prevents angiotensin II-induced cardiomyopathy by activation of Nrf2 via stimulating the Akt/GSK-3 β /Fyn pathway. <i>Redox Biology</i> , 2018 , 15, 405-417	11.3	87
290	Resveratrol attenuates testicular apoptosis in type 1 diabetic mice: Role of Akt-mediated Nrf2 activation and p62-dependent Keap1 degradation. <i>Redox Biology</i> , 2018 , 14, 609-617	11.3	86
289	Minireview: Roles of Fibroblast Growth Factors 19 and 21 in Metabolic Regulation and Chronic Diseases. <i>Molecular Endocrinology</i> , 2015 , 29, 1400-13		83
288	Suppression of nitrate damage by metallothionein in diabetic heart contributes to the prevention of cardiomyopathy. <i>Free Radical Biology and Medicine</i> , 2006 , 41, 851-61	7.8	79
287	Metallothionein protects DNA from copper-induced but not iron-induced cleavage in vitro. <i>Chemico-Biological Interactions</i> , 1995 , 96, 143-55	5	79
286	Targeting JNK by a new curcumin analog to inhibit NF- κ B-mediated expression of cell adhesion molecules attenuates renal macrophage infiltration and injury in diabetic mice. <i>PLoS ONE</i> , 2013 , 8, e79084	3.7	78
285	Low-dose radiation (LDR) induces hematopoietic hormesis: LDR-induced mobilization of hematopoietic progenitor cells into peripheral blood circulation. <i>Experimental Hematology</i> , 2004 , 32, 1088-96	3.1	78
284	Diabetes- and angiotensin II-induced cardiac endoplasmic reticulum stress and cell death: metallothionein protection. <i>Journal of Cellular and Molecular Medicine</i> , 2009 , 13, 1499-512	5.6	77
283	The role of the Nrf2/Keap1 pathway in obesity and metabolic syndrome. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2015 , 16, 35-45	10.5	75
282	Role of iron deficiency and overload in the pathogenesis of diabetes and diabetic complications. <i>Current Medicinal Chemistry</i> , 2009 , 16, 113-29	4.3	74
281	Angiotensin II plays a critical role in alcohol-induced cardiac nitrate damage, cell death, remodeling, and cardiomyopathy in a protein kinase C/nicotinamide adenine dinucleotide phosphate oxidase-dependent manner. <i>Journal of the American College of Cardiology</i> , 2012 , 59, 1477-86	15.1	72
280	Zinc and the diabetic heart. <i>BioMetals</i> , 2005 , 18, 325-32	3.4	72
279	Polymorphisms in metallothionein-1 and -2 genes associated with the risk of type 2 diabetes mellitus and its complications. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2008 , 294, E987-92	6	71
278	Cardiac metallothionein synthesis in streptozotocin-induced diabetic mice, and its protection against diabetes-induced cardiac injury. <i>American Journal of Pathology</i> , 2005 , 167, 17-26	5.8	71
277	Diabetic cardiomyopathy and its prevention by nrf2: current status. <i>Diabetes and Metabolism Journal</i> , 2014 , 38, 337-45	5	70
276	Inhibition of HDAC3 prevents diabetic cardiomyopathy in OVE26 mice via epigenetic regulation of DUSP5-ERK1/2 pathway. <i>Clinical Science</i> , 2017 , 131, 1841-1857	6.5	69
275	Biochanin A protects lipopolysaccharide/D-galactosamine-induced acute liver injury in mice by activating the Nrf2 pathway and inhibiting NLRP3 inflammasome activation. <i>International Immunopharmacology</i> , 2016 , 38, 324-31	5.8	68

274	Novel curcumin analog C66 prevents diabetic nephropathy via JNK pathway with the involvement of p300/CBP-mediated histone acetylation. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015 , 1852, 34-46	6.9	67
273	Zinc is essential for the transcription function of Nrf2 in human renal tubule cells in vitro and mouse kidney in vivo under the diabetic condition. <i>Journal of Cellular and Molecular Medicine</i> , 2014 , 18, 895-906	5.6	67
272	Attenuation of high-glucose-induced inflammatory response by a novel curcumin derivative B06 contributes to its protection from diabetic pathogenic changes in rat kidney and heart. <i>Journal of Nutritional Biochemistry</i> , 2013 , 24, 146-55	6.3	65
271	Sulforaphane prevention of diabetes-induced aortic damage was associated with the up-regulation of Nrf2 and its down-stream antioxidants. <i>Nutrition and Metabolism</i> , 2012 , 9, 84	4.6	65
270	Up-regulation of Nrf2 is involved in FGF21-mediated fenofibrate protection against type 1 diabetic nephropathy. <i>Free Radical Biology and Medicine</i> , 2016 , 93, 94-109	7.8	63
269	Sulforaphane reduction of testicular apoptotic cell death in diabetic mice is associated with the upregulation of Nrf2 expression and function. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014 , 307, E14-23	6	62
268	Diabetic cardiomyopathy and its prevention by metallothionein: experimental evidence, possible mechanisms and clinical implications. <i>Current Medicinal Chemistry</i> , 2007 , 14, 2193-203	4.3	62
267	Protection by sulforaphane from type 1 diabetes-induced testicular apoptosis is associated with the up-regulation of Nrf2 expression and function. <i>Toxicology and Applied Pharmacology</i> , 2014 , 279, 198-210	4.6	61
266	Therapeutic effect of MG-132 on diabetic cardiomyopathy is associated with its suppression of proteasomal activities: roles of Nrf2 and NF- κ B. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013 , 304, H567-78	5.2	61
265	Diabetes-induced hepatic pathogenic damage, inflammation, oxidative stress, and insulin resistance was exacerbated in zinc deficient mouse model. <i>PLoS ONE</i> , 2012 , 7, e49257	3.7	61
264	Protective effect of FGF21 on type 1 diabetes-induced testicular apoptotic cell death probably via both mitochondrial- and endoplasmic reticulum stress-dependent pathways in the mouse model. <i>Toxicology Letters</i> , 2013 , 219, 65-76	4.4	61
263	Attenuation of hyperlipidemia- and diabetes-induced early-stage apoptosis and late-stage renal dysfunction via administration of fibroblast growth factor-21 is associated with suppression of renal inflammation. <i>PLoS ONE</i> , 2013 , 8, e82275	3.7	61
262	Zinc-metallothionein protects from DNA damage induced by radiation better than glutathione and copper- or cadmium-metallothioneins. <i>Toxicology Letters</i> , 2003 , 136, 193-8	4.4	61
261	C66 ameliorates diabetic nephropathy in mice by both upregulating NRF2 function via increase in miR-200a and inhibiting miR-21. <i>Diabetologia</i> , 2016 , 59, 1558-1568	10.3	61
260	Metallothionein plays a prominent role in the prevention of diabetic nephropathy by sulforaphane via up-regulation of Nrf2. <i>Free Radical Biology and Medicine</i> , 2015 , 89, 431-42	7.8	60
259	Induction of cell-proliferation hormesis and cell-survival adaptive response in mouse hematopoietic cells by whole-body low-dose radiation. <i>Toxicological Sciences</i> , 2000 , 53, 369-76	4.4	60
258	Nrf2: Redox and Metabolic Regulator of Stem Cell State and Function. <i>Trends in Molecular Medicine</i> , 2020 , 26, 185-200	11.5	58
257	Potential role for Nrf2 activation in the therapeutic effect of MG132 on diabetic nephropathy in OVE26 diabetic mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013 , 304, E87-99	6	57

256	Zinc supplementation partially prevents renal pathological changes in diabetic rats. <i>Journal of Nutritional Biochemistry</i> , 2010 , 21, 237-46	6.3	57
255	Effect of low-level radiation on the death of male germ cells. <i>Radiation Research</i> , 2006 , 165, 379-89	3.1	56
254	Dysregulation of histone acetyltransferases and deacetylases in cardiovascular diseases. <i>Oxidative Medicine and Cellular Longevity</i> , 2014 , 2014, 641979	6.7	54
253	Repetitive exposures to low-dose X-rays attenuate testicular apoptotic cell death in streptozotocin-induced diabetes rats. <i>Toxicology Letters</i> , 2010 , 192, 356-64	4.4	54
252	Zinc protects against diabetes-induced pathogenic changes in the aorta: roles of metallothionein and nuclear factor (erythroid-derived 2)-like 2. <i>Cardiovascular Diabetology</i> , 2013 , 12, 54	8.7	52
251	Broccoli sprout extract prevents diabetic cardiomyopathy via Nrf2 activation in db/db T2DM mice. <i>Scientific Reports</i> , 2016 , 6, 30252	4.9	51
250	Low-dose radiation may be a novel approach to enhance the effectiveness of cancer therapeutics. <i>International Journal of Cancer</i> , 2016 , 139, 2157-68	7.5	51
249	Pathophysiological Fundamentals of Diabetic Cardiomyopathy. <i>Comprehensive Physiology</i> , 2017 , 7, 693-714	7.1	50
248	Hormetic Response to Low-Dose Radiation: Focus on the Immune System and Its Clinical Implications. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	50
247	Uncoupling the Mitogenic and Metabolic Functions of FGF1 by Tuning FGF1-FGF Receptor Dimer Stability. <i>Cell Reports</i> , 2017 , 20, 1717-1728	10.6	50
246	Sirtuin 1: A Target for Kidney Diseases. <i>Molecular Medicine</i> , 2015 , 21, 87-97	6.2	48
245	ER stress and autophagy dysfunction contribute to fatty liver in diabetic mice. <i>International Journal of Biological Sciences</i> , 2015 , 11, 559-68	11.2	48
244	The role of zinc in the prevention of diabetic cardiomyopathy and nephropathy. <i>Toxicology Mechanisms and Methods</i> , 2013 , 23, 27-33	3.6	48
243	Diabetic inhibition of preconditioning- and postconditioning-mediated myocardial protection against ischemia/reperfusion injury. <i>Experimental Diabetes Research</i> , 2012 , 2012, 198048		48
242	Induction of a cytogenetic adaptive response in germ cells of irradiated mice with very low-dose rate of chronic gamma-irradiation and its biological influence on radiation-induced DNA or chromosomal damage and cell killing in their male offspring. <i>Mutagenesis</i> , 1995 , 10, 95-100	2.8	48
241	Role of sirtuin-1 in diabetic nephropathy. <i>Journal of Molecular Medicine</i> , 2019 , 97, 291-309	5.5	47
240	Multiple low-dose radiation prevents type 2 diabetes-induced renal damage through attenuation of dyslipidemia and insulin resistance and subsequent renal inflammation and oxidative stress. <i>PLoS ONE</i> , 2014 , 9, e92574	3.7	47
239	Roles of vitamin C in radiation-induced DNA damage in presence and absence of copper. <i>Chemico-Biological Interactions</i> , 2001 , 137, 75-88	5	47

238	Sulforaphane attenuation of type 2 diabetes-induced aortic damage was associated with the upregulation of Nrf2 expression and function. <i>Oxidative Medicine and Cellular Longevity</i> , 2014 , 2014, 123963	6.7	46
237	Endoplasmic reticulum stress-induced neuronal inflammatory response and apoptosis likely plays a key role in the development of diabetic encephalopathy. <i>Oncotarget</i> , 2016 , 7, 78455-78472	3.3	46
236	Analysis of serum and urinal copper and zinc in Chinese northeast population with the prediabetes or diabetes with and without complications. <i>Oxidative Medicine and Cellular Longevity</i> , 2013 , 2013, 6352147	6.7	45
235	Protective role of zinc-metlothionein on DNA damage in vitro by ferric nitrilotriacetate (Fe-NTA) and ferric salts. <i>Chemico-Biological Interactions</i> , 1998 , 115, 141-51	5	45
234	Cardiac-specific overexpression of HIF-1{alpha} prevents deterioration of glycolytic pathway and cardiac remodeling in streptozotocin-induced diabetic mice. <i>American Journal of Pathology</i> , 2010 , 177, 97-105	5.8	44
233	Fluvastatin prevents nephropathy likely through suppression of connective tissue growth factor-mediated extracellular matrix accumulation. <i>Experimental and Molecular Pathology</i> , 2004 , 76, 66-754	4.4	42
232	Associations of serum and urinary magnesium with the pre-diabetes, diabetes and diabetic complications in the Chinese Northeast population. <i>PLoS ONE</i> , 2013 , 8, e56750	3.7	42
231	Krüppel-like factors (KLFs) in renal physiology and disease. <i>EBioMedicine</i> , 2019 , 40, 743-750	8.8	41
230	Angiotensin II plays a critical role in diabetic pulmonary fibrosis most likely via activation of NADPH oxidase-mediated nitrosative damage. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011 , 301, E132-44	6	41
229	Inhibition of p53 prevents diabetic cardiomyopathy by preventing early-stage apoptosis and cell senescence, reduced glycolysis, and impaired angiogenesis. <i>Cell Death and Disease</i> , 2018 , 9, 82	9.8	40
228	Apoptotic cell death induced by low-dose radiation in male germ cells: hormesis and adaptation. <i>Critical Reviews in Toxicology</i> , 2007 , 37, 587-605	5.7	40
227	Inhibition of JNK by novel curcumin analog C66 prevents diabetic cardiomyopathy with a preservation of cardiac metallothionein expression. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014 , 306, E1239-47	6	39
226	A novel CXCR4 antagonist derived from human SDF-1beta enhances angiogenesis in ischaemic mice. <i>Cardiovascular Research</i> , 2009 , 82, 513-21	9.9	39
225	Low-dose Cd induces hepatic gene hypermethylation, along with the persistent reduction of cell death and increase of cell proliferation in rats and mice. <i>PLoS ONE</i> , 2012 , 7, e33853	3.7	38
224	Low-dose radiation activates Akt and Nrf2 in the kidney of diabetic mice: a potential mechanism to prevent diabetic nephropathy. <i>Oxidative Medicine and Cellular Longevity</i> , 2012 , 2012, 291087	6.7	37
223	Low-dose radiation induces adaptive response in normal cells, but not in tumor cells: in vitro and in vivo studies. <i>Journal of Radiation Research</i> , 2008 , 49, 219-30	2.4	37
222	Urinary miR-21 as a potential biomarker of hypertensive kidney injury and fibrosis. <i>Scientific Reports</i> , 2017 , 7, 17737	4.9	36
221	Protective effects of sulforaphane on type 2 diabetes-induced cardiomyopathy via AMPK-mediated activation of lipid metabolic pathways and NRF2 function. <i>Metabolism: Clinical and Experimental</i> , 2020 , 102, 154002	12.7	36

220	Curcuminoids: Implication for inflammation and oxidative stress in cardiovascular diseases. <i>Phytotherapy Research</i> , 2019 , 33, 1302-1317	6.7	35
219	Low-Dose Radiation Induces Cell Proliferation in Human Embryonic Lung Fibroblasts but not in Lung Cancer Cells: Importance of ERK1/2 and AKT Signaling Pathways. <i>Dose-Response</i> , 2016 , 14, 1559-1574	2.3	35
218	Zinc treatment prevents type 1 diabetes-induced hepatic oxidative damage, endoplasmic reticulum stress, and cell death, and even prevents possible steatohepatitis in the OVE26 mouse model: Important role of metallothionein. <i>Toxicology Letters</i> , 2015 , 233, 114-24	4.4	35
217	Functional and pathological improvements of the hearts in diabetes model by the combined therapy of bFGF-loaded nanoparticles with ultrasound-targeted microbubble destruction. <i>Journal of Controlled Release</i> , 2014 , 186, 22-31	11.7	35
216	Elevation of serum endothelins and cardiotoxicity induced by particulate matter (PM2.5) in rats with acute myocardial infarction. <i>Cardiovascular Toxicology</i> , 2002 , 2, 253-61	3.4	35
215	Induction of an adaptive response to dominant lethality and to chromosome damage of mouse germ cells by low dose radiation. <i>Mutation Research-Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1993 , 303, 157-61		35
214	The gut microbiota and its interactions with cardiovascular disease. <i>Microbial Biotechnology</i> , 2020 , 13, 637-656	6.3	34
213	Cardiac protection by basic fibroblast growth factor from ischemia/reperfusion-induced injury in diabetic rats. <i>Biological and Pharmaceutical Bulletin</i> , 2010 , 33, 444-9	2.3	34
212	The protective effect of FGF21 on diabetes-induced male germ cell apoptosis is associated with up-regulated testicular AKT and AMPK/Sirt1/PGC-1 β signaling. <i>Endocrinology</i> , 2015 , 156, 1156-70	4.8	33
211	The prevention of diabetic cardiomyopathy by non-mitogenic acidic fibroblast growth factor is probably mediated by the suppression of oxidative stress and damage. <i>PLoS ONE</i> , 2013 , 8, e82287	3.7	33
210	Neuroimmunologic and Neurotrophic Interactions in Autism Spectrum Disorders: Relationship to Neuroinflammation. <i>NeuroMolecular Medicine</i> , 2018 , 20, 161-173	4.6	32
209	Attenuation of diabetes-induced cardiac inflammation and pathological remodeling by low-dose radiation. <i>Radiation Research</i> , 2011 , 175, 307-21	3.1	32
208	Zinc rescues obesity-induced cardiac hypertrophy via stimulating metallothionein to suppress oxidative stress-activated BCL10/CARD9/p38 MAPK pathway. <i>Journal of Cellular and Molecular Medicine</i> , 2017 , 21, 1182-1192	5.6	31
207	Renal improvement by zinc in diabetic mice is associated with glucose metabolism signaling mediated by metallothionein and Akt, but not Akt2. <i>Free Radical Biology and Medicine</i> , 2014 , 68, 22-34	7.8	31
206	Diabetes and metallothionein. <i>Mini-Reviews in Medicinal Chemistry</i> , 2007 , 7, 761-8	3.2	31
205	The role of NBS1 in the modulation of PIKK family proteins ATM and ATR in the cellular response to DNA damage. <i>Cancer Letters</i> , 2006 , 243, 9-15	9.9	31
204	Zinc- or cadmium-pre-induced metallothionein protects human central nervous system cells and astrocytes from radiation-induced apoptosis. <i>Toxicology Letters</i> , 2004 , 146, 217-26	4.4	31
203	Resveratrol As A Natural Regulator Of Autophagy For Prevention And Treatment Of Cancer. <i>OncoTargets and Therapy</i> , 2019 , 12, 8601-8609	4.4	30

202	Inhibition of JNK by compound C66 prevents pathological changes of the aorta in STZ-induced diabetes. <i>Journal of Cellular and Molecular Medicine</i> , 2014 , 18, 1203-12	5.6	30
201	Zinc deficiency exacerbates diabetic down-regulation of Akt expression and function in the testis: essential roles of PTEN, PTP1B and TRB3. <i>Journal of Nutritional Biochemistry</i> , 2012 , 23, 1018-26	6.3	30
200	A novel mechanism by which SDF-1 β protects cardiac cells from palmitate-induced endoplasmic reticulum stress and apoptosis via CXCR7 and AMPK/p38 MAPK-mediated interleukin-6 generation. <i>Diabetes</i> , 2013 , 62, 2545-58	0.9	30
199	Metallothionein prevents intermittent hypoxia-induced cardiac endoplasmic reticulum stress and cell death likely via activation of Akt signaling pathway in mice. <i>Toxicology Letters</i> , 2014 , 227, 113-23	4.4	29
198	Protective effect of total aralosides of <i>Aralia elata</i> (Miq) Seem (TASAES) against diabetic cardiomyopathy in rats during the early stage, and possible mechanisms. <i>Experimental and Molecular Medicine</i> , 2009 , 41, 538-47	12.8	29
197	Adaptive response to ionizing radiation-induced chromosome aberrations in rabbit lymphocytes: effect of pre-exposure to zinc, and copper salts. <i>Mutation Research - Genetic Toxicology Testing and Biomonitoring of Environmental Or Occupational Exposure</i> , 1996 , 369, 233-41		29
196	Type 1 diabetes mellitus is an independent risk factor for pulmonary fibrosis. <i>Cell Biochemistry and Biophysics</i> , 2014 , 70, 1385-91	3.2	28
195	Intermittent hypoxia-induced renal antioxidants and oxidative damage in male mice: hormetic dose response. <i>Dose-Response</i> , 2012 , 11, 385-400	2.3	28
194	Diabetes-induced alteration of F4/80+ macrophages: a study in mice with streptozotocin-induced diabetes for a long term. <i>Journal of Molecular Medicine</i> , 2008 , 86, 391-400	5.5	28
193	Effects of Gamma Radiation on Levels of Brain Metallothionein and Lipid Peroxidation in Transgenic Mice. <i>Radiation Research</i> , 1998 , 150, 52	3.1	28
192	Diabetic Microvascular Disease and Pulmonary Fibrosis: The Contribution of Platelets and Systemic Inflammation. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	28
191	Anticancer Properties of Fenofibrate: A Repurposing Use. <i>Journal of Cancer</i> , 2018 , 9, 1527-1537	4.5	27
190	Impact of prenatal arsenic exposure on chronic adult diseases. <i>Systems Biology in Reproductive Medicine</i> , 2018 , 64, 469-483	2.9	27
189	Cardiac response to chronic intermittent hypoxia with a transition from adaptation to maladaptation: the role of hydrogen peroxide. <i>Oxidative Medicine and Cellular Longevity</i> , 2012 , 2012, 569520	6.7	27
188	The beneficial effects of Zn on Akt-mediated insulin and cell survival signaling pathways in diabetes. <i>Journal of Trace Elements in Medicine and Biology</i> , 2018 , 46, 117-127	4.1	26
187	Zinc deficiency exacerbates while zinc supplement attenuates cardiac hypertrophy in high-fat diet-induced obese mice through modulating p38 MAPK-dependent signaling. <i>Toxicology Letters</i> , 2016 , 258, 134-146	4.4	26
186	Repetitive exposure to low-dose X-irradiation attenuates testicular apoptosis in type 2 diabetic rats, likely via Akt-mediated Nrf2 activation. <i>Molecular and Cellular Endocrinology</i> , 2016 , 422, 203-210	4.4	26
185	Attenuation of diabetes-induced renal dysfunction by multiple exposures to low-dose radiation is associated with the suppression of systemic and renal inflammation. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009 , 297, E1366-77	6	26

184	Low-dose radiation does not induce proliferation in tumor cells in vitro and in vivo. <i>Radiation Research</i> , 2008 , 170, 477-87	3.1	26
183	Endothelin-1-mediated alteration of metallothionein and trace metals in the liver and kidneys of chronically diabetic rats. <i>International Journal of Experimental Diabetes Research</i> , 2002 , 3, 193-8		26
182	Increased radiation-induced apoptosis in mouse thymus in the absence of metallothionein. <i>Toxicology</i> , 1999 , 134, 39-49	4.4	26
181	Cardiac-specific overexpression of catalase prevents diabetes-induced pathological changes by inhibiting NF- κ B signaling activation in the heart. <i>Journal of Molecular and Cellular Cardiology</i> , 2015 , 89, 314-25	5.8	25
180	Angiotensin II-induced p53-dependent cardiac apoptotic cell death: its prevention by metallothionein. <i>Toxicology Letters</i> , 2009 , 191, 314-20	4.4	25
179	Low-dose radiation and its clinical implications: diabetes. <i>Human and Experimental Toxicology</i> , 2008 , 27, 135-42	3.4	25
178	Protection by dimethyl fumarate against diabetic cardiomyopathy in type 1 diabetic mice likely via activation of nuclear factor erythroid-2 related factor 2. <i>Toxicology Letters</i> , 2018 , 287, 131-141	4.4	24
177	Metallothionein prevention of arsenic trioxide-induced cardiac cell death is associated with its inhibition of mitogen-activated protein kinases activation in vitro and in vivo. <i>Toxicology Letters</i> , 2013 , 220, 277-85	4.4	24
176	Intermittent hypoxia-induced cardiomyopathy and its prevention by Nrf2 and metallothionein. <i>Free Radical Biology and Medicine</i> , 2017 , 112, 224-239	7.8	24
175	Zinc Prevents the Development of Diabetic Cardiomyopathy in db/db Mice. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	24
174	Murine double minute 2 siRNA and wild-type p53 gene therapy enhances sensitivity of the SKOV3/DDP ovarian cancer cell line to cisplatin chemotherapy in vitro and in vivo. <i>Cancer Letters</i> , 2014 , 343, 200-9	9.9	24
173	Stable overexpression of human metallothionein-IIA in a heart-derived cell line confers oxidative protection. <i>Toxicology Letters</i> , 2009 , 188, 70-6	4.4	24
172	High level glucose increases mutagenesis in human lymphoblastoid cells. <i>International Journal of Biological Sciences</i> , 2007 , 3, 375-9	11.2	24
171	Metallothionein as an adaptive protein prevents diabetes and its toxicity. <i>Nonlinearity in Biology, Toxicology, Medicine</i> , 2004 , 2, 89-103		24
170	Resveratrol protects against lipopolysaccharide-induced cardiac dysfunction by enhancing SERCA2a activity through promoting the phospholamban oligomerization. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016 , 311, H1051-H1062	5.2	24
169	Up-regulation of FGF15/19 signaling promotes hepatocellular carcinoma in the background of fatty liver. <i>Journal of Experimental and Clinical Cancer Research</i> , 2018 , 37, 136	12.8	23
168	HDAC3 inhibition in diabetic mice may activate Nrf2 preventing diabetes-induced liver damage and FGF21 synthesis and secretion leading to aortic protection. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018 , 315, E150-E162	6	23
167	Additive protection by LDR and FGF21 treatment against diabetic nephropathy in type 2 diabetes model. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015 , 309, E45-54	6	22

166	Enhanced therapeutic effect of cisplatin on the prostate cancer in tumor-bearing mice by transfecting the attenuated Salmonella carrying a plasmid co-expressing p53 gene and mdm2 siRNA. <i>Cancer Letters</i> , 2013 , 337, 133-42	9.9	22
165	Acceleration of diabetic wound healing by low-dose radiation is associated with peripheral mobilization of bone marrow stem cells. <i>Radiation Research</i> , 2010 , 174, 467-79	3.1	22
164	Mild Hyperthermia Can Induce Adaptation to Cytogenetic Damage Caused by Subsequent X Irradiation. <i>Radiation Research</i> , 1995 , 143, 26	3.1	22
163	Protection against diabetic cardiomyopathy is achieved using a combination of sulforaphane and zinc in type 1 diabetic OVE26 mice. <i>Journal of Cellular and Molecular Medicine</i> , 2019 , 23, 6319-6330	5.6	21
162	Metallothionein Preserves Akt2 Activity and Cardiac Function via Inhibiting TRB3 in Diabetic Hearts. <i>Diabetes</i> , 2018 , 67, 507-517	0.9	20
161	Protective Effect of Lactobacillus rhamnosus GG and its Supernatant against Myocardial Dysfunction in Obese Mice Exposed to Intermittent Hypoxia is Associated with the Activation of Nrf2 Pathway. <i>International Journal of Biological Sciences</i> , 2019 , 15, 2471-2483	11.2	20
160	Metallothionein prevents cardiac pathological changes in diabetes by modulating nitration and inactivation of cardiac ATP synthase. <i>Journal of Nutritional Biochemistry</i> , 2014 , 25, 463-74	6.3	20
159	Activation of HIF-1 by metallothionein contributes to cardiac protection in the diabetic heart. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012 , 302, H2528-35	5.2	20
158	Pulmonary fibrosis: a possible diabetic complication. <i>Diabetes/Metabolism Research and Reviews</i> , 2011 , 27, 311-7	7.5	20
157	Zinc delays the progression of obesity-related glomerulopathy in mice via down-regulating P38 MAPK-mediated inflammation. <i>Obesity</i> , 2016 , 24, 1244-56	8	20
156	Inhibition of DNA methylation attenuates low-dose cadmium-induced cardiac contractile and intracellular Ca(2+) anomalies. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2013 , 40, 706-12	3	19
155	Sulforaphane restores acetyl-histone H3 binding to Bcl-2 promoter and prevents apoptosis in ethanol-exposed neural crest cells and mouse embryos. <i>Experimental Neurology</i> , 2018 , 300, 60-66	5.7	19
154	Cadmium and High-Fat Diet Disrupt Renal, Cardiac and Hepatic Essential Metals. <i>Scientific Reports</i> , 2019 , 9, 14675	4.9	18
153	Comparison of the Therapeutic Effects Recombinant Human Acidic and Basic Fibroblast Growth Factors in Wound Healing in Diabetic Patients. <i>Journal of Health Science</i> , 2008 , 54, 432-440		18
152	Metallothionein rescues hypoxia-inducible factor-1 transcriptional activity in cardiomyocytes under diabetic conditions. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 360, 286-9	3.4	18
151	Sludge decrement and electricity generation of sludge microbial fuel cell enhanced by zero valent iron. <i>Journal of Cleaner Production</i> , 2018 , 174, 35-41	10.3	18
150	Fenofibrate inhibits mTOR-p70S6K signaling and simultaneously induces cell death in human prostate cancer cells. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 496, 70-75	3.4	17
149	Genetic variants of nuclear factor erythroid-derived 2-like 2 associated with the complications in Han descents with type 2 diabetes mellitus of Northeast China. <i>Journal of Cellular and Molecular Medicine</i> , 2016 , 20, 2078-2088	5.6	17

148	Effects of Zn deficiency, antioxidants, and low-dose radiation on diabetic oxidative damage and cell death in the testis. <i>Toxicology Mechanisms and Methods</i> , 2013 , 23, 42-7	3.6	17
147	Metallothionein prevents diabetes-induced cardiac pathological changes, likely via the inhibition of succinyl-CoA:3-ketoacid coenzyme A transferase-1 nitration at Trp(374). <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013 , 304, E826-35	6	17
146	Cardiovascular protection of nonmitogenic human acidic fibroblast growth factor from oxidative damage in vitro and in vivo. <i>Cardiovascular Pathology</i> , 2007 , 16, 85-91	3.8	17
145	Facile Preparation of Nano-BiMoO ₄ /Diatomite Composite for Enhancing Photocatalytic Performance under Visible Light Irradiation. <i>Materials</i> , 2018 , 11,	3.5	16
144	A novel microbial technique for producing high-quality sophorolipids from horse oil suitable for cosmetic applications. <i>Microbial Biotechnology</i> , 2018 , 11, 917-929	6.3	16
143	Murine double minute 2 siRNA and wild-type p53 gene therapy interact positively with zinc on prostate tumours in vitro and in vivo. <i>European Journal of Cancer</i> , 2014 , 50, 1184-94	7.5	16
142	Magnolia bioactive constituent 4-O-methylhonokiol prevents the impairment of cardiac insulin signaling and the cardiac pathogenesis in high-fat diet-induced obese mice. <i>International Journal of Biological Sciences</i> , 2015 , 11, 879-91	11.2	16
141	Magnolia extract (BL153) protection of heart from lipid accumulation caused cardiac oxidative damage, inflammation, and cell death in high-fat diet fed mice. <i>Oxidative Medicine and Cellular Longevity</i> , 2014 , 2014, 205849	6.7	16
140	Exacerbation of diabetic cardiac hypertrophy in OVE26 mice by angiotensin II is associated with JNK/c-Jun/miR-221-mediated autophagy inhibition. <i>Oncotarget</i> , 2017 , 8, 106661-106671	3.3	16
139	Activating Adenosine Monophosphate-Activated Protein Kinase Mediates Fibroblast Growth Factor 1 Protection From Nonalcoholic Fatty Liver Disease in Mice. <i>Hepatology</i> , 2021 , 73, 2206-2222	11.2	16
138	Nrf2 expression and function, but not MT expression, is indispensable for sulforaphane-mediated protection against intermittent hypoxia-induced cardiomyopathy in mice. <i>Redox Biology</i> , 2018 , 19, 11-21 ^{11.3}	11.3	15
137	Zinc rescue of Akt2 gene deletion-linked murine cardiac dysfunction and pathological changes is metallothionein-dependent. <i>Journal of Molecular and Cellular Cardiology</i> , 2014 , 74, 88-97	5.8	15
136	Cellular immunotherapy as maintenance therapy prolongs the survival of the patients with small cell lung cancer. <i>Journal of Translational Medicine</i> , 2015 , 13, 158	8.5	15
135	Deletion of metallothionein exacerbates intermittent hypoxia-induced oxidative and inflammatory injury in aorta. <i>Oxidative Medicine and Cellular Longevity</i> , 2014 , 2014, 141053	6.7	15
134	Synergistic suppression of prostatic cancer cells by coexpression of both murine double minute 2 small interfering RNA and wild-type p53 gene in vitro and in vivo. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2011 , 338, 173-83	4.7	15
133	Distinct biological effects of low-dose radiation on normal and cancerous human lung cells are mediated by ATM signaling. <i>Oncotarget</i> , 2016 , 7, 71856-71872	3.3	15
132	Diabetic-induced alterations in hepatic glucose and lipid metabolism: The role of type 1 and type 2 diabetes mellitus (Review). <i>Molecular Medicine Reports</i> , 2020 , 22, 603-611	2.9	15
131	From the Cover: Zinc Deficiency Worsens and Supplementation Prevents High-Fat Diet Induced Vascular Inflammation, Oxidative Stress, and Pathological Remodeling. <i>Toxicological Sciences</i> , 2016 , 153, 124-36	4.4	15

130	The Role of Akt2 in the Protective Effect of Fenofibrate against Diabetic Nephropathy. <i>International Journal of Biological Sciences</i> , 2020 , 16, 553-567	11.2	14
129	Sulforaphane prevents right ventricular injury and reduces pulmonary vascular remodeling in pulmonary arterial hypertension. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020 , 318, H853-H866	5.2	14
128	The magnolia bioactive constituent 4-O-methylhonokiol protects against high-fat diet-induced obesity and systemic insulin resistance in mice. <i>Oxidative Medicine and Cellular Longevity</i> , 2014 , 2014, 965954	6.7	14
127	Expression and Purification of glutathione transferase-small ubiquitin-related modifier-metallothionein fusion protein and its neuronal and hepatic protection against D-galactose-induced oxidative damage in mouse model. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009 , 329, 469-78	4.7	14
126	Enhanced protection of modified human acidic fibroblast growth factor with polyethylene glycol against ischemia/reperfusion-induced retinal damage in rats. <i>Toxicology Letters</i> , 2007 , 170, 146-56	4.4	14
125	Sulforaphane prevents type 2 diabetes-induced nephropathy via AMPK-mediated activation of lipid metabolic pathways and Nrf2 antioxidative function. <i>Clinical Science</i> , 2020 , 134, 2469-2487	6.5	14
124	Extracts of Magnolia Species-Induced Prevention of Diabetic Complications: A Brief Review. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	14
123	The regulatory roles of p53 in cardiovascular health and disease. <i>Cellular and Molecular Life Sciences</i> , 2021 , 78, 2001-2018	10.3	14
122	Potential drugs which activate nuclear factor E2-related factor 2 signaling to prevent diabetic cardiovascular complications: A focus on fumaric acid esters. <i>Life Sciences</i> , 2015 , 134, 56-62	6.8	13
121	Metallothionein as a compensatory component prevents intermittent hypoxia-induced cardiomyopathy in mice. <i>Toxicology and Applied Pharmacology</i> , 2014 , 277, 58-66	4.6	13
120	The late and persistent pathogenic effects of cadmium at very low levels on the kidney of rats. <i>Dose-Response</i> , 2013 , 11, 60-81	2.3	13
119	Magnolia extract (BL153) ameliorates kidney damage in a high fat diet-induced obesity mouse model. <i>Oxidative Medicine and Cellular Longevity</i> , 2013 , 2013, 367040	6.7	13
118	Association of metallothionein expression and lack of apoptosis with progression of carcinogenesis in Barrett's esophagus. <i>Experimental Biology and Medicine</i> , 2003 , 228, 286-92	3.7	13
117	Diabetes enhances lipopolysaccharide-induced cardiac toxicity in the mouse model. <i>Cardiovascular Toxicology</i> , 2003 , 3, 363-72	3.4	13
116	Low dose radiation prevents doxorubicin-induced cardiotoxicity. <i>Oncotarget</i> , 2018 , 9, 332-345	3.3	13
115	Implications for prenatal cadmium exposure and adverse health outcomes in adulthood. <i>Toxicology and Applied Pharmacology</i> , 2020 , 403, 115161	4.6	13
114	Curcumin Analogs Reduce Stress and Inflammation Indices in Experimental Models of Diabetes. <i>Frontiers in Endocrinology</i> , 2019 , 10, 887	5.7	13
113	Right ventricular dysfunction and remodeling in diabetic cardiomyopathy. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019 , 316, H113-H122	5.2	13

112	The role of FGF21 in type 1 diabetes and its complications. <i>International Journal of Biological Sciences</i> , 2018 , 14, 1000-1011	11.2	12
111	Diabetic cardiomyopathy: role of the E3 ubiquitin ligase. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016 , 310, E473-83	6	12
110	Metallothionein Prevents Age-Associated Cardiomyopathy via Inhibiting NF- κ B Pathway Activation and Associated Nitritative Damage to 2-OGD. <i>Antioxidants and Redox Signaling</i> , 2016 , 25, 936-952	8.4	12
109	Pex11a deficiency causes dyslipidaemia and obesity in mice. <i>Journal of Cellular and Molecular Medicine</i> , 2019 , 23, 2020-2031	5.6	12
108	Elabela may regulate SIRT3-mediated inhibition of oxidative stress through Foxo3a deacetylation preventing diabetic-induced myocardial injury. <i>Journal of Cellular and Molecular Medicine</i> , 2021 , 25, 323-332	5.6	12
107	Clopidogrel Reduces Fibronectin Accumulation and Improves Diabetes-Induced Renal Fibrosis. <i>International Journal of Biological Sciences</i> , 2019 , 15, 239-252	11.2	11
106	4-O-methylhonokiol ameliorates type 2 diabetes-induced nephropathy in mice likely by activation of AMPK-mediated fatty acid oxidation and Nrf2-mediated anti-oxidative stress. <i>Toxicology and Applied Pharmacology</i> , 2019 , 370, 93-105	4.6	11
105	Myocardial redox status, mitophagy and cardioprotection: a potential way to amend diabetic heart?. <i>Clinical Science</i> , 2016 , 130, 1511-21	6.5	11
104	Ferroptosis is essential for diabetic cardiomyopathy and is prevented by sulforaphane AMPK/NRF2 pathways.. <i>Acta Pharmaceutica Sinica B</i> , 2022 , 12, 708-722	15.5	11
103	Renal Protection by Genetic Deletion of the Atypical Chemokine Receptor ACKR2 in Diabetic OVE Mice. <i>Journal of Diabetes Research</i> , 2016 , 2016, 5362506	3.9	11
102	Zinc as a countermeasure for cadmium toxicity. <i>Acta Pharmacologica Sinica</i> , 2021 , 42, 340-346	8	11
101	Chronic exposure to arsenic and high fat diet induces sex-dependent pathogenic effects on the kidney. <i>Chemico-Biological Interactions</i> , 2019 , 310, 108719	5	10
100	Differential expression of endoplasmic reticulum stress-response proteins in different renal tubule subtypes of OVE26 diabetic mice. <i>Cell Stress and Chaperones</i> , 2016 , 21, 155-166	4	10
99	Cardiac Functional Analysis by Electrocardiography, Echocardiography and in situ Hemodynamics in Streptozotocin-Induced Diabetic Mice. <i>Journal of Health Science</i> , 2004 , 50, 356-365		10
98	Cytogenetic adaptive response with multiple small X-ray doses in mouse germ cells and its biological influence on the offspring of adapted males. <i>Mutation Research-Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1994 , 324, 13-7		10
97	Molecular insights: Suppression of EGFR and AKT activation by a small molecule in non-small cell lung cancer. <i>Genes and Cancer</i> , 2017 , 8, 713-724	2.9	10
96	Neonatal Murine Engineered Cardiac Tissue Toxicology Model: Impact of Metallothionein Overexpression on Cadmium-Induced Injury. <i>Toxicological Sciences</i> , 2018 , 165, 499-511	4.4	10
95	Exposure to Vinyl Chloride and Its Influence on Western Diet-Induced Cardiac Remodeling. <i>Chemical Research in Toxicology</i> , 2018 , 31, 482-493	4	9

94	Low-dose radiation induces renal SOD1 expression and activity in type 1 diabetic mice. <i>International Journal of Radiation Biology</i> , 2014 , 90, 224-30	2.9	9
93	Prevention of Diabetic Nephropathy by Modified Acidic Fibroblast Growth Factor. <i>Nephron</i> , 2017 , 137, 221-236	3.3	9
92	Diabetes Induced Changes in Podocyte Morphology and Gene Expression Evaluated Using GFP Transgenic Podocytes. <i>International Journal of Biological Sciences</i> , 2016 , 12, 210-8	11.2	9
91	A minireview: Role of AMP-activated protein kinase (AMPK) signaling in obesity-related renal injury. <i>Life Sciences</i> , 2021 , 265, 118828	6.8	9
90	4-O-methylhonokiol protects against diabetic cardiomyopathy in type 2 diabetic mice by activation of AMPK-mediated cardiac lipid metabolism improvement. <i>Journal of Cellular and Molecular Medicine</i> , 2019 , 23, 5771-5781	5.6	8
89	Gender Differences in Cardiac Remodeling Induced by a High-Fat Diet and Lifelong, Low-Dose Cadmium Exposure. <i>Chemical Research in Toxicology</i> , 2019 , 32, 1070-1081	4	8
88	Metallothionein Protects the Heart Against Myocardial Infarction the mTORC2/FoxO3a/Bim Pathway. <i>Antioxidants and Redox Signaling</i> , 2019 , 31, 403-419	8.4	8
87	shRNA-mediated XRCC2 gene knockdown efficiently sensitizes colon tumor cells to X-ray irradiation in vitro and in vivo. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 2157-71	6.3	8
86	Deletion of angiotensin II type 1 receptor gene or scavenge of superoxide prevents chronic alcohol-induced aortic damage and remodelling. <i>Journal of Cellular and Molecular Medicine</i> , 2012 , 16, 2530-8	5.6	8
85	Low-dose whole-body irradiation induces alteration of protein expression in mouse splenocytes. <i>Toxicology Letters</i> , 1999 , 105, 141-52	4.4	8
84	Identification of susceptibility locus shared by IgA nephropathy and inflammatory bowel disease in a Chinese Han population. <i>Journal of Human Genetics</i> , 2020 , 65, 241-249	4.3	8
83	Current Knowledge Regarding the Interaction Between Oral Bone Metabolic Disorders and Diabetes Mellitus. <i>Frontiers in Endocrinology</i> , 2020 , 11, 536	5.7	8
82	Diabetes/obesity-related inflammation, cardiac cell death and cardiomyopathy. <i>Journal of Central South University (Medical Sciences)</i> , 2006 , 31, 814-8	0.4	8
81	A Novel CXCR4 antagonist enhances angiogenesis via modifying the ischaemic tissue environment. <i>Journal of Cellular and Molecular Medicine</i> , 2017 , 21, 2298-2307	5.6	7
80	Multiple roles of KLF15 in the heart: Underlying mechanisms and therapeutic implications. <i>Journal of Molecular and Cellular Cardiology</i> , 2019 , 129, 193-196	5.8	7
79	Embryonic exposure to ethanol increases the susceptibility of larval zebrafish to chemically induced seizures. <i>Scientific Reports</i> , 2018 , 8, 1845	4.9	7
78	Sex differences in progression of diabetic nephropathy in OVE26 type 1 diabetic mice. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020 , 1866, 165589	6.9	7
77	Zinc protects against cadmium-induced toxicity in neonatal murine engineered cardiac tissues via metallothionein-dependent and independent mechanisms. <i>Acta Pharmacologica Sinica</i> , 2020 , 41, 638-649	8	7

76	Alterations of MicroRNA Expression in the Liver, Heart, and Testis of Mice Upon Exposure to Repeated Low-Dose Radiation. <i>Dose-Response</i> , 2018 , 16, 1559325818799561	2.3	7
75	Current understanding of hexavalent chromium [Cr(VI)] neurotoxicity and new perspectives. <i>Environment International</i> , 2021 , 158, 106877	12.9	7
74	Proteomic characterization of the late and persistent effects of cadmium at low doses on the rat liver. <i>Journal of Applied Toxicology</i> , 2013 , 33, 546-57	4.1	6
73	From the Cover: Alcohol Inhibition of the Enzymatic Activity of Glyceraldehyde 3-Phosphate Dehydrogenase Impairs Cardiac Glucose Utilization, Contributing to Alcoholic Cardiomyopathy. <i>Toxicological Sciences</i> , 2017 , 159, 392-401	4.4	6
72	Sulforaphane Prevents Angiotensin II-Induced Testicular Cell Death via Activation of NRF2. <i>Oxidative Medicine and Cellular Longevity</i> , 2017 , 2017, 5374897	6.7	6
71	Cardiac regeneration and diabetes. <i>Regenerative Medicine Research</i> , 2014 , 2, 1	1.2	6
70	Radiation exposure does not alter metallothionein III isoform expression in mouse brain. <i>Biological Trace Element Research</i> , 2000 , 74, 23-30	4.5	6
69	Protective effects of extracted human-liver RNA, a known interferon inducer, against radiation-induced cytogenetic damage in male mice. <i>Toxicology Letters</i> , 1998 , 94, 189-98	4.4	6
68	Engineered cardiac tissues: a novel in vitro model to investigate the pathophysiology of mouse diabetic cardiomyopathy. <i>Acta Pharmacologica Sinica</i> , 2021 , 42, 932-941	8	6
67	Hepatic functional and pathological changes of type 1 diabetic mice in growing and maturation time. <i>Journal of Cellular and Molecular Medicine</i> , 2019 , 23, 5794-5807	5.6	5
66	Diabetes and its Potential Impact on Head and Neck Oncogenesis. <i>Journal of Cancer</i> , 2020 , 11, 583-591	4.5	5
65	Ablation of Ggnbp2 impairs meiotic DNA double-strand break repair during spermatogenesis in mice. <i>Journal of Cellular and Molecular Medicine</i> , 2018 , 22, 4863-4874	5.6	5
64	Implications of impaired zinc homeostasis in diabetic cardiomyopathy and nephropathy. <i>BioFactors</i> , 2017 , 43, 770-784	6.1	5
63	Cardiac metallothionein overexpression rescues diabetic cardiomyopathy in Akt2-knockout mice. <i>Journal of Cellular and Molecular Medicine</i> , 2021 , 25, 6828-6840	5.6	5
62	Effects of Breast Cancer Genes 1 and 2 on Cardiovascular Diseases. <i>Current Problems in Cardiology</i> , 2021 , 46, 100421	17.1	5
61	Reappraisal of metallothionein: Clinical implications for patients with diabetes mellitus. <i>Journal of Diabetes</i> , 2018 , 10, 213-231	3.8	5
60	The adaptive immune role of metallothioneins in the pathogenesis of diabetic cardiomyopathy: good or bad. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019 , 317, H264-H275	5.2	4
59	Loss of NF-E2 expression contributes to the induction of profibrotic signaling in diabetic kidneys. <i>Life Sciences</i> , 2020 , 254, 117783	6.8	4

58	Preventive effect of non-mitogenic acidic fibroblast growth factor on diabetes-induced testicular cell death. <i>Reproductive Toxicology</i> , 2014 , 49, 136-44	3.4	4
57	Ggnbp2-Null Mutation in Mice Leads to Male Infertility due to a Defect at the Spermiogenesis Stage. <i>American Journal of Pathology</i> , 2017 , 187, 2508-2519	5.8	4
56	CARD9 Regulation and its Role in Cardiovascular Diseases.. <i>International Journal of Biological Sciences</i> , 2022 , 18, 970-982	11.2	4
55	409-P: Engineered Cardiac Tissues: A Novel In Vitro Model to Investigate the Pathophysiology of Diabetic Cardiomyopathy. <i>Diabetes</i> , 2020 , 69, 409-P	0.9	4
54	Oxidative Stress in Diabetes: Molecular Basis for Diet Supplementation 2016 , 65-72		4
53	Exposure to low dose cadmium enhances FL83B cells proliferation through down-regulation of caspase-8 by DNA hypermethylation. <i>Toxicology Research</i> , 2015 , 4, 248-259	2.6	3
52	Management of diabetic nephropathy: the role of sirtuin-1. <i>Future Medicinal Chemistry</i> , 2019 , 11, 2241-2245	4.5	3
51	Optimal conditions of LDR to protect the kidney from diabetes: exposure to 12.5 mGy X-rays for 8 weeks efficiently protects the kidney from diabetes. <i>Life Sciences</i> , 2014 , 103, 49-58	6.8	3
50	Does Krüppel Like Factor 15 Play an Important Role in the Left Ventricular Hypertrophy of Patients with Type 2 Diabetes?. <i>EBioMedicine</i> , 2017 , 20, 17-18	8.8	3
49	Combined Use of Acid Fibroblast Growth Factor, Granulocyte Colony-stimulating Factor and Zinc Sulphate Accelerates Diabetic Ulcer Healing. <i>Journal of Health Science</i> , 2009 , 55, 910-922		3
48	Zinc homeostasis plays an important role in the prevention of obesity-induced cardiac inflammation, remodeling and dysfunction. <i>Journal of Trace Elements in Medicine and Biology</i> , 2020 , 62, 126615	4.1	3
47	Neonatal murine engineered cardiac tissue toxicology model: Impact of dexrazoxane on doxorubicin induced injury. <i>Life Sciences</i> , 2019 , 239, 117070	6.8	3
46	Optimal LDR to Protect the Kidney From Diabetes: Whole-Body Exposure to 25 mGy X-rays Weekly for 8 Weeks Efficiently Attenuates Renal Damage in Diabetic Mice. <i>Dose-Response</i> , 2018 , 16, 1559325818789843	2.3	3
45	Repeated Whole-Body Exposure to Low-Dose Radiation Combined With Topical Application of Basic Fibroblast Growth Factor and Zinc Accelerates Wound Healing in Diabetic Rats. <i>Dose-Response</i> , 2018 , 16, 1559325818789845	2.3	3
44	COVID-19 and low-dose radiation therapy. <i>Radiation Medicine and Protection</i> , 2021 , 2, 139-145	2	3
43	Effects of cadmium and high-fat diet on essential metal concentration in the mouse testis. <i>Toxicology Reports</i> , 2021 , 8, 718-723	4.8	3
42	The nuclear-cytoplasmic presence of metallothionein in cells during differentiation and development 1999 , 291-294		2
41	CXCR7 Agonist TC14012 Improves Angiogenic Function of Endothelial Progenitor Cells in Diabetic Limb Ischemia. <i>Diabetes</i> , 2018 , 67, 471-P	0.9	2

40	Metallothionein induction attenuates the progression of lung injury in mice exposed to long-term intermittent hypoxia. <i>Inflammation Research</i> , 2020 , 69, 15-26	7.2	2
39	Metals in Diabetes 2016 , 169-182		2
38	Roles of Krüppel-like factor 5 in kidney disease. <i>Journal of Cellular and Molecular Medicine</i> , 2021 , 25, 2342-2355	5.2	2
37	Metallothionein and Intracellular Sequestration of Metals 2018 , 557-573		2
36	KLF15 negatively regulates cardiac fibrosis by which SDF-1 α attenuates cardiac fibrosis in type 2 diabetic mice. <i>Toxicology and Applied Pharmacology</i> , 2021 , 427, 115654	4.6	2
35	The cGAS-STING pathway: more than fighting against viruses and cancer.. <i>Cell and Bioscience</i> , 2021 , 11, 209	9.8	2
34	Low-Dose Radiation Prevents Chemotherapy-Induced Cardiotoxicity. <i>Current Stem Cell Reports</i> , 2019 , 5, 82-91	1.8	1
33	METALLOTHIONEIN AND CARDIOMYOPATHY 2008 , 227-269		1
32	Comprehensive Review of Cadmium Toxicity Mechanisms in Male Reproduction and Therapeutic Strategies. <i>Reviews of Environmental Contamination and Toxicology</i> , 2021 , 258, 151-193	3.5	1
31	Whole life exposure to low dose cadmium alters diet-induced NAFLD.. <i>Toxicology and Applied Pharmacology</i> , 2022 , 436, 115855	4.6	1
30	Effects of whole-life exposure to low-dose cadmium with post-weaning high-fat diet on offspring testes in a male mouse model.. <i>Chemico-Biological Interactions</i> , 2022 , 353, 109797	5	1
29	605-P: Endothelial-Specific Overexpression of Metallothionein Prevents Diabetes Mellitus-Induced Impairment in Ischemia Angiogenesis via Preservation of HIF-1 α /SDF-1/VEGF Signaling in Endothelial Progenitor Cells. <i>Diabetes</i> , 2020 , 69, 605-P	0.9	1
28	Redox Signaling and Myocardial Cell Death: Molecular Mechanisms and Drug Targets. <i>Oxidative Medicine and Cellular Longevity</i> , 2016 , 2016, 3190753	6.7	1
27	Combination of Broccoli Sprout Extract and Zinc Provides Better Protection against Intermittent Hypoxia-Induced Cardiomyopathy Than Monotherapy in Mice. <i>Oxidative Medicine and Cellular Longevity</i> , 2019 , 2019, 2985901	6.7	1
26	Sulforaphane Does Not Protect Right Ventricular Systolic and Diastolic Functions in Nrf2 Knockout Pulmonary Artery Hypertension Mice.. <i>Cardiovascular Drugs and Therapy</i> , 2022 , 1	3.9	1
25	The development and biological characteristics of a novel potentially radioresistant inbred mouse strain. <i>Molecular Medicine Reports</i> , 2017 , 15, 759-767	2.9	0
24	Early-Life Exposure to Low-Dose Cadmium Accelerates Diethylnitrosamine and Diet-Induced Liver Cancer. <i>Oxidative Medicine and Cellular Longevity</i> , 2021 , 2021, 1427787	6.7	0
23	Sex differences in the effects of whole-life, low-dose cadmium exposure on postweaning high-fat diet-induced cardiac pathogenesis. <i>Science of the Total Environment</i> , 2021 , 809, 152176	10.2	0

22	470-P: Combined Use of Sulforaphane and Zinc Provides a Better Protection against Diabetic Cardiomyopathy than Either One Alone in Type 1 Diabetic OVE26 Mice. <i>Diabetes</i> , 2019 , 68, 470-P	0.9	○
21	ERK and p38 MAPK inhibition controls NF-E2 degradation and profibrotic signaling in renal proximal tubule cells. <i>Life Sciences</i> , 2021 , 287, 120092	6.8	○
20	Potential roles of mediator Complex Subunit 13 in Cardiac Diseases. <i>International Journal of Biological Sciences</i> , 2021 , 17, 328-338	11.2	○
19	Emerging roles of microRNA-208a in cardiology and reverse cardio-oncology. <i>Medicinal Research Reviews</i> , 2021 , 41, 2172-2194	14.4	○
18	Intravital assessment of precapillary pulmonary arterioles of type 1 diabetic mice shows oxidative damage and increased tone in response to NOS inhibition. <i>Journal of Applied Physiology</i> , 2021 , 131, 1552-1564	27.564	○
17	Research progress of sirtuins in renal and cardiovascular diseases. <i>Current Opinion in Nephrology and Hypertension</i> , 2021 , 30, 108-114	3.5	○
16	Exposure to low-dose cadmium induces testicular ferroptosis.. <i>Ecotoxicology and Environmental Safety</i> , 2022 , 234, 113373	7	○
15	FGF1 delays the progression of diabetic nephropathy in late-stage type 2 diabetes mouse model by alleviating renal inflammation, fibrosis, and apoptosis.. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2022 , 1868, 166414	6.9	○
14	Oxidative Stress in Reproductive Toxicology. <i>Oxidative Stress in Applied Basic Research and Clinical Practice</i> , 2015 , 449-465		
13	Role of Iron in the Pathogenesis of Diabetes and Metabolic Syndrome 2013 , 335-361		
12	Reply to Letter to the Editor: Low-dose whole body irradiation: a potential therapeutic modality <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010 , 299, E138-E140	6	
11	Attenuation of AngII-induced early cell death by MT results in a prevention of the late development of cardiomyopathy. <i>FASEB Journal</i> , 2007 , 21, A811	0.9	
10	Increased Subpleural Pulmonary Arteriolar Tone Associated with Inhibition of Nitric Oxide Synthase in a Mouse Model of Type-1 Diabetes. <i>FASEB Journal</i> , 2018 , 32, lb276	0.9	
9	Subpleural Microvascular Dysfunction in the Intact Mouse Lung in Conjunction with Increased Blood Glucose Levels, Oxidative Stress and Altered Nitric Oxide Signaling in a Model of Type-1 Diabetes. <i>FASEB Journal</i> , 2019 , 33, 685.12	0.9	
8	516-P: Preventive Effect of Sulforaphane on Type 2 Diabetes-Induced Diabetic Nephropathy via AMPK-Mediated Activation of Glucose/Lipid Metabolism and Nrf2 Antioxidative Function. <i>Diabetes</i> , 2019 , 68, 516-P	0.9	
7	625-P: Metallothionein Improves Angiogenic Function of Endothelial Progenitor Cells via HIF-1/SDF-1/Akt Pathway in Diabetic Limb Ischemia. <i>Diabetes</i> , 2019 , 68, 625-P	0.9	
6	613-P: Preventive Effect of Sulforaphane on Type 2 Diabetes-Induced Diabetic Cardiomyopathy via AMPK-Mediated Activation of Glucose/Lipid Metabolism and Nrf2 Function. <i>Diabetes</i> , 2019 , 68, 613-P	0.9	
5	473-P: HDAC Inhibition Augments TGF-β-Induced JNK Activation, CTGF Expression, and NF-E2 Degradation Promoting Profibrotic Signaling in Renal Proximal Tubules. <i>Diabetes</i> , 2020 , 69, 473-P	0.9	

- 4 Platelet-Endothelial Association with Fibrinogen/Fibrin, Coupled with Oxidative Stress, Protein Nitrosylation, and Fibrosis may underlie Pulmonary Endothelial Cell Dysfunction in a Mouse Model of Type 1 Diabetes. *FASEB Journal*, **2015**, 29, 634.8 0.9
- 3 Chronic Alcohol Consumption Induces Cardiac Nitrosative Stress and Cell Death in an Ang II-, PKC-, and NOX-Dependent Manner. *FASEB Journal*, **2011**, 25, 1096.7 0.9
- 2 Letter by Cai et al Regarding Article, "Exposure to Low-Dose Ionizing Radiation From Cardiac Procedures and Malignancy Risk in Adults With Congenital Heart Disease". *Circulation*, **2018**, 138, 1377-1378 ^{16.7}
- 1 CXCR7 Agonist TC14012 Improves Angiogenic Function of Endothelial Progenitor Cells via Activating Akt/eNOS Pathway and Promotes Ischemic Angiogenesis in Diabetic Limb Ischemia.. *Cardiovascular Drugs and Therapy*, **2022**, 1 3.9