

Jose Vina

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347
papers

21,145
citations

78
h-index

133
g-index

399
ext. papers

24,031
ext. citations

5.8
avg, IF

6.74
L-index

#	Paper	IF	Citations
347	Searching for an operational definition of frailty: a Delphi method based consensus statement: the frailty operative definition-consensus conference project. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2013 , 68, 62-7	6.4	664
346	Moderate exercise is an antioxidant: upregulation of antioxidant genes by training. <i>Free Radical Biology and Medicine</i> , 2008 , 44, 126-31	7.8	622
345	Oral administration of vitamin C decreases muscle mitochondrial biogenesis and hampers training-induced adaptations in endurance performance. <i>American Journal of Clinical Nutrition</i> , 2008 , 87, 142-9	7	580
344	Mitochondria from females exhibit higher antioxidant gene expression and lower oxidative damage than males. <i>Free Radical Biology and Medicine</i> , 2003 , 34, 546-52	7.8	440
343	Delayed ageing through damage protection by the Arf/p53 pathway. <i>Nature</i> , 2007 , 448, 375-9	50.4	395
342	Properties of Resveratrol: In Vitro and In Vivo Studies about Metabolism, Bioavailability, and Biological Effects in Animal Models and Humans. <i>Oxidative Medicine and Cellular Longevity</i> , 2015 , 2015, 837042	6.7	375
341	Establishing the background level of base oxidation in human lymphocyte DNA: results of an interlaboratory validation study. <i>FASEB Journal</i> , 2005 , 19, 82-4	0.9	354
340	Telomerase reverse transcriptase delays aging in cancer-resistant mice. <i>Cell</i> , 2008 , 135, 609-22	56.2	339
339	Xanthine oxidase is involved in free radical production in type 1 diabetes: protection by allopurinol. <i>Diabetes</i> , 2002 , 51, 1118-24	0.9	319
338	Resuscitation with room air instead of 100% oxygen prevents oxidative stress in moderately asphyxiated term neonates. <i>Pediatrics</i> , 2001 , 107, 642-7	7.4	318
337	Decreasing xanthine oxidase-mediated oxidative stress prevents useful cellular adaptations to exercise in rats. <i>Journal of Physiology</i> , 2005 , 567, 113-20	3.9	313
336	Exercise and hormesis: activation of cellular antioxidant signaling pathway. <i>Annals of the New York Academy of Sciences</i> , 2006 , 1067, 425-35	6.5	287
335	Mitochondrial oxidative stress plays a key role in aging and apoptosis. <i>IUBMB Life</i> , 2000 , 49, 427-35	4.7	285
334	Are we sure we know how to measure 8-oxo-7,8-dihydroguanine in DNA from human cells?. <i>Archives of Biochemistry and Biophysics</i> , 2004 , 423, 57-65	4.1	265
333	Why women have more Alzheimer® disease than men: gender and mitochondrial toxicity of amyloid-beta peptide. <i>Journal of Alzheimer's Disease</i> , 2010 , 20 Suppl 2, S527-33	4.3	262
332	Mitochondrial glutathione oxidation correlates with age-associated oxidative damage to mitochondrial DNA. <i>FASEB Journal</i> , 1996 , 10, 333-8	0.9	257
331	The role of mitochondrial oxidative stress in aging. <i>Free Radical Biology and Medicine</i> , 2003 , 35, 1-8	7.8	246

330	Oxidative stress in asphyxiated term infants resuscitated with 100% oxygen. <i>Journal of Pediatrics</i> , 2003 , 142, 240-6	3.6	238
329	A Multicomponent Exercise Intervention that Reverses Frailty and Improves Cognition, Emotion, and Social Networking in the Community-Dwelling Frail Elderly: A Randomized Clinical Trial. <i>Journal of the American Medical Directors Association</i> , 2016 , 17, 426-33	5.9	232
328	Measurement of DNA oxidation in human cells by chromatographic and enzymic methods. <i>Free Radical Biology and Medicine</i> , 2003 , 34, 1089-99	7.8	226
327	17beta-oestradiol up-regulates longevity-related, antioxidant enzyme expression via the ERK1 and ERK2[MAPK]/NFkappaB cascade. <i>Aging Cell</i> , 2005 , 4, 113-8	9.9	223
326	Acute exercise activates nuclear factor (NF)-kappaB signaling pathway in rat skeletal muscle. <i>FASEB Journal</i> , 2004 , 18, 1499-506	0.9	222
325	Exercise acts as a drug; the pharmacological benefits of exercise. <i>British Journal of Pharmacology</i> , 2012 , 167, 1-12	8.6	219
324	Bioavailability and metabolism. <i>Molecular Aspects of Medicine</i> , 2002 , 23, 39-100	16.7	205
323	Room-air resuscitation causes less damage to heart and kidney than 100% oxygen. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2005 , 172, 1393-8	10.2	201
322	Mitochondria, oxidative stress and aging. <i>Free Radical Research</i> , 2000 , 32, 189-98	4	197
321	Even free radicals should follow some rules: a guide to free radical research terminology and methodology. <i>Free Radical Biology and Medicine</i> , 2015 , 78, 233-5	7.8	191
320	European contribution to the study of ROS: A summary of the findings and prospects for the future from the COST action BM1203 (EU-ROS). <i>Redox Biology</i> , 2017 , 13, 94-162	11.3	185
319	Antioxidants, reactive oxygen and nitrogen species, gene induction and mitochondrial function. <i>Molecular Aspects of Medicine</i> , 2002 , 23, 209-85	16.7	179
318	Aging of the liver: age-associated mitochondrial damage in intact hepatocytes. <i>Hepatology</i> , 1996 , 24, 1199-205	11.2	173
317	Vitamin E paradox in Alzheimer's disease: it does not prevent loss of cognition and may even be detrimental. <i>Journal of Alzheimer's Disease</i> , 2009 , 17, 143-9	4.3	167
316	Abeta and tau toxicities in Alzheimer's are linked via oxidative stress-induced p38 activation: protective role of vitamin E. <i>Redox Biology</i> , 2014 , 2, 873-7	11.3	165
315	A Ginkgo biloba extract (EGb 761) prevents mitochondrial aging by protecting against oxidative stress. <i>Free Radical Biology and Medicine</i> , 1998 , 24, 298-304	7.8	164
314	Why females live longer than males? Importance of the upregulation of longevity-associated genes by oestrogenic compounds. <i>FEBS Letters</i> , 2005 , 579, 2541-5	3.8	162
313	L-cysteine and glutathione metabolism are impaired in premature infants due to cystathionase deficiency. <i>American Journal of Clinical Nutrition</i> , 1995 , 61, 1067-1069	7	156

312	A high-performance liquid chromatography method for measurement of oxidized glutathione in biological samples. <i>Analytical Biochemistry</i> , 1994 , 217, 323-8	3.1	155
311	Oxidative damage to mitochondrial DNA and glutathione oxidation in apoptosis: studies in vivo and in vitro. <i>FASEB Journal</i> , 1999 , 13, 1055-64	0.9	151
310	Mitochondrial biogenesis in exercise and in ageing. <i>Advanced Drug Delivery Reviews</i> , 2009 , 61, 1369-74	18.5	146
309	Maintenance of glutathione content in isolated hepatocytes. <i>Biochemical Journal</i> , 1978 , 170, 627-30	3.8	143
308	The free radical theory of aging revisited: the cell signaling disruption theory of aging. <i>Antioxidants and Redox Signaling</i> , 2013 , 19, 779-87	8.4	141
307	Dietary soy isoflavone induced increases in antioxidant and eNOS gene expression lead to improved endothelial function and reduced blood pressure in vivo. <i>FASEB Journal</i> , 2005 , 19, 1755-7	0.9	140
306	Glutathione is recruited into the nucleus in early phases of cell proliferation. <i>Journal of Biological Chemistry</i> , 2007 , 282, 20416-24	5.4	139
305	Direct antioxidant and protective effect of estradiol on isolated mitochondria. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2010 , 1802, 205-11	6.9	138
304	Mechanism of free radical production in exhaustive exercise in humans and rats; role of xanthine oxidase and protection by allopurinol. <i>IUBMB Life</i> , 2000 , 49, 539-44	4.7	135
303	G6PD protects from oxidative damage and improves healthspan in mice. <i>Nature Communications</i> , 2016 , 7, 10894	17.4	134
302	Estradiol or genistein prevent Alzheimer® disease-associated inflammation correlating with an increase PPAR gamma expression in cultured astrocytes. <i>Brain Research</i> , 2010 , 1312, 138-44	3.7	134
301	Theories of ageing. <i>IUBMB Life</i> , 2007 , 59, 249-54	4.7	129
300	Ratio of reduced to oxidized glutathione as indicator of oxidative stress status and DNA damage. <i>Methods in Enzymology</i> , 1999 , 299, 267-76	1.7	129
299	Effect of ethanol on glutathione concentration in isolated hepatocytes. <i>Biochemical Journal</i> , 1980 , 188, 549-52		129
298	Genistein, a soy isoflavone, up-regulates expression of antioxidant genes: involvement of estrogen receptors, ERK1/2, and NFkappaB. <i>FASEB Journal</i> , 2006 , 20, 2136-8	0.9	128
297	Blood glutathione as an index of radiation-induced oxidative stress in mice and humans. <i>Free Radical Biology and Medicine</i> , 1997 , 22, 1203-9	7.8	127
296	AZT treatment induces molecular and ultrastructural oxidative damage to muscle mitochondria. Prevention by antioxidant vitamins. <i>Journal of Clinical Investigation</i> , 1998 , 102, 4-9	15.9	121
295	Role of nuclear glutathione as a key regulator of cell proliferation. <i>Molecular Aspects of Medicine</i> , 2009 , 30, 77-85	16.7	120

294	Redox modulation of mitochondriogenesis in exercise. Does antioxidant supplementation blunt the benefits of exercise training?. <i>Free Radical Biology and Medicine</i> , 2015 , 86, 37-46	7.8	115
293	Ursodeoxycholic acid protects against secondary biliary cirrhosis in rats by preventing mitochondrial oxidative stress. <i>Hepatology</i> , 2004 , 39, 711-20	11.2	114
292	Interaction between cytokines and oxidative stress in acute pancreatitis. <i>Current Medicinal Chemistry</i> , 2006 , 13, 2775-87	4.3	109
291	Mitochondrial theory of aging: importance to explain why females live longer than males. <i>Antioxidants and Redox Signaling</i> , 2003 , 5, 549-56	8.4	105
290	Molecular bases of the treatment of Alzheimer® disease with antioxidants: prevention of oxidative stress. <i>Molecular Aspects of Medicine</i> , 2004 , 25, 117-23	16.7	101
289	Comparison of different methods of measuring 8-oxoguanine as a marker of oxidative DNA damage. ESCODD (European Standards Committee on Oxidative DNA Damage). <i>Free Radical Research</i> , 2000 , 32, 333-41	4	101
288	Females live longer than males: role of oxidative stress. <i>Current Pharmaceutical Design</i> , 2011 , 17, 3959-65	3	100
287	Effect of simultaneous inhibition of TNF-alpha production and xanthine oxidase in experimental acute pancreatitis: the role of mitogen activated protein kinases. <i>Annals of Surgery</i> , 2004 , 240, 108-16	7.8	98
286	Role of mitochondrial oxidative stress to explain the different longevity between genders: protective effect of estrogens. <i>Free Radical Research</i> , 2006 , 40, 1359-65	4	97
285	Mitochondrial oxidative stress and CD95 ligand: a dual mechanism for hepatocyte apoptosis in chronic alcoholism. <i>Hepatology</i> , 2002 , 35, 1205-14	11.2	97
284	Oxidative stress is related to frailty, not to age or sex, in a geriatric population: lipid and protein oxidation as biomarkers of frailty. <i>Journal of the American Geriatrics Society</i> , 2014 , 62, 1324-8	5.6	93
283	PTEN recruitment controls synaptic and cognitive function in Alzheimer® models. <i>Nature Neuroscience</i> , 2016 , 19, 443-53	25.5	91
282	Part of the series: from dietary antioxidants to regulators in cellular signalling and gene expression. Role of reactive oxygen species and (phyto)estrogens in the modulation of adaptive response to stress. <i>Free Radical Research</i> , 2006 , 40, 111-9	4	91
281	Exercise-induced systemic effects in muscle-wasted patients with COPD. <i>Medicine and Science in Sports and Exercise</i> , 2006 , 38, 1543-52	1.2	90
280	Exercise and probiotics attenuate the development of Alzheimer® disease in transgenic mice: Role of microbiome. <i>Experimental Gerontology</i> , 2019 , 115, 122-131	4.5	90
279	Age associated low mitochondrial biogenesis may be explained by lack of response of PGC-1β to exercise training. <i>Age</i> , 2012 , 34, 669-79		88
278	Amyloid-β toxicity and tau hyperphosphorylation are linked via RCAN1 in Alzheimer® disease. <i>Journal of Alzheimer's Disease</i> , 2011 , 27, 701-9	4.3	86
277	Allopurinol and markers of muscle damage among participants in the Tour de France. <i>JAMA - Journal of the American Medical Association</i> , 2003 , 289, 2503-4	27.4	85

276	Oxidative stress in marathon runners: interest of antioxidant supplementation. <i>British Journal of Nutrition</i> , 2006 , 96 Suppl 1, S31-3	3.6	83
275	Molecular mechanisms linking amyloid β toxicity and Tau hyperphosphorylation in Alzheimer's disease. <i>Free Radical Biology and Medicine</i> , 2015 , 83, 186-91	7.8	82
274	Inhibition of xanthine oxidase by allopurinol prevents skeletal muscle atrophy: role of p38 MAPKinase and E3 ubiquitin ligases. <i>PLoS ONE</i> , 2012 , 7, e46668	3.7	80
273	Mitochondrial involvement in non-alcoholic steatohepatitis. <i>Molecular Aspects of Medicine</i> , 2008 , 29, 22-35	16.7	78
272	Co-administration of pentoxifylline and thiopental causes death by acute pulmonary oedema in rats. <i>British Journal of Pharmacology</i> , 2007 , 150, 249-249	8.6	78
271	The depletion of nuclear glutathione impairs cell proliferation in 3t3 fibroblasts. <i>PLoS ONE</i> , 2009 , 4, e64137	3.7	77
270	Anti-aging activity of the Ink4/Arf locus. <i>Aging Cell</i> , 2009 , 8, 152-61	9.9	77
269	Xanthine oxidase-induced oxidative stress causes activation of NF-kappaB and inflammation in the liver of type I diabetic rats. <i>Free Radical Biology and Medicine</i> , 2010 , 49, 171-7	7.8	77
268	Xanthine oxidase is involved in exercise-induced oxidative stress in chronic obstructive pulmonary disease. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1999 , 277, R1697-704	3.2	77
267	The effect of cysteine oxidation on isolated hepatocytes. <i>Biochemical Journal</i> , 1983 , 212, 39-44	3.8	76
266	Why females live longer than males: control of longevity by sex hormones. <i>Science of Aging Knowledge Environment: SAGE KE</i> , 2005 , 2005, pe17		76
265	Mitochondrial oxidant generation is involved in determining why females live longer than males. <i>Frontiers in Bioscience - Landmark</i> , 2007 , 12, 1008-13	2.8	73
264	Circulating miRNAs and miRNA shuttles as biomarkers: Perspective trajectories of healthy and unhealthy aging. <i>Mechanisms of Ageing and Development</i> , 2017 , 165, 162-170	5.6	72
263	Copenhagen Consensus statement 2019: physical activity and ageing. <i>British Journal of Sports Medicine</i> , 2019 , 53, 856-858	10.3	71
262	Histone h3 glutathionylation in proliferating mammalian cells destabilizes nucleosomal structure. <i>Antioxidants and Redox Signaling</i> , 2013 , 19, 1305-20	8.4	69
261	Interaction between 24-hydroxycholesterol, oxidative stress, and amyloid- β in amplifying neuronal damage in Alzheimer's disease: three partners in crime. <i>Aging Cell</i> , 2011 , 10, 403-17	9.9	67
260	Centenarians, but not octogenarians, up-regulate the expression of microRNAs. <i>Scientific Reports</i> , 2012 , 2, 961	4.9	66
259	Depletion of tumour glutathione in vivo by buthionine sulphoximine: modulation by the rate of cellular proliferation and inhibition of cancer growth. <i>Biochemical Journal</i> , 1993 , 292 (Pt 2), 477-83	3.8	66

258	Sarcopenia, frailty and their prevention by exercise. <i>Free Radical Biology and Medicine</i> , 2019 , 132, 42-49	7.8	66
257	Hyperoxemia caused by resuscitation with pure oxygen may alter intracellular redox status by increasing oxidized glutathione in asphyxiated newly born infants. <i>Seminars in Perinatology</i> , 2002 , 26, 406-10	3.3	65
256	Exhaustive physical exercise causes oxidation of glutathione status in blood: prevention by antioxidant administration. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1992 , 263, R992-5	3.2	65
255	Mitochondrial function in liver disease. <i>Frontiers in Bioscience - Landmark</i> , 2007 , 12, 1200-9	2.8	65
254	Relevance of Oxygen Concentration in Stem Cell Culture for Regenerative Medicine. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	64
253	Inactivity-induced oxidative stress: a central role in age-related sarcopenia?. <i>European Journal of Sport Science</i> , 2014 , 14 Suppl 1, S98-108	3.9	63
252	Antioxidant supplements in exercise: worse than useless?. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2012 , 302, E476-7; author reply E478-9	6	62
251	Physiological changes in glutathione metabolism in foetal and newborn rat liver. <i>Biochemical Journal</i> , 1991 , 274 (Pt 3), 891-3	3.8	62
250	Decreased urea synthesis in cafeteria-diet-induced obesity in the rat. <i>Biochemical Journal</i> , 1985 , 230, 675-81	3.8	61
249	Life-long spontaneous exercise does not prolong lifespan but improves health span in mice. <i>Longevity & Healthspan</i> , 2013 , 2, 14		60
248	Oestradiol or genistein rescues neurons from amyloid beta-induced cell death by inhibiting activation of p38. <i>Aging Cell</i> , 2008 , 7, 112-8	9.9	60
247	Oxidative signature of cerebrospinal fluid from mild cognitive impairment and Alzheimer disease patients. <i>Free Radical Biology and Medicine</i> , 2016 , 91, 1-9	7.8	59
246	Six years of experience with the use of room air for the resuscitation of asphyxiated newly born term infants. <i>Neonatology</i> , 2001 , 79, 261-7	4	59
245	Zidovudine (AZT) causes an oxidation of mitochondrial DNA in mouse liver. <i>Hepatology</i> , 1999 , 29, 985-7	11.2	59
244	In Search of Omics-Based Biomarkers to Predict Risk of Frailty and Its Consequences in Older Individuals: The FRAILOMIC Initiative. <i>Gerontology</i> , 2016 , 62, 182-90	5.5	57
243	Mitochondria as sources and targets of damage in cellular aging. <i>Clinical Chemistry and Laboratory Medicine</i> , 2012 , 50, 1287-95	5.9	56
242	Glutathione regulates telomerase activity in 3T3 fibroblasts. <i>Journal of Biological Chemistry</i> , 2004 , 279, 34332-5	5.4	56
241	Inter-laboratory validation of procedures for measuring 8-oxo-7,8-dihydroguanine/8-oxo-7,8-dihydro-2-deoxyguanosine in DNA. <i>Free Radical Research</i> , 2002 , 36, 239-45	4	56

240	Pentoxifylline ameliorates cerulein-induced pancreatitis in rats: role of glutathione and nitric oxide. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2000 , 293, 670-6	4.7	56
239	Role of nuclear factor kappaB and mitogen-activated protein kinase signaling in exercise-induced antioxidant enzyme adaptation. <i>Applied Physiology, Nutrition and Metabolism</i> , 2007 , 32, 930-5	3	55
238	Exercise causes blood glutathione oxidation in chronic obstructive pulmonary disease: prevention by O2 therapy. <i>Journal of Applied Physiology</i> , 1996 , 81, 2199-2202	3.7	55
237	Evidence for the progression through S-phase in the ectopic cell cycle re-entry of neurons in Alzheimer disease. <i>Aging</i> , 2009 , 1, 382-8	5.6	55
236	Clearing Amyloid- β through PPAR γ /ApoE Activation by Genistein is a Treatment of Experimental Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2016 , 51, 701-11	4.3	52
235	Exercise: the lifelong supplement for healthy ageing and slowing down the onset of frailty. <i>Journal of Physiology</i> , 2016 , 594, 1989-99	3.9	51
234	An inter-laboratory validation of methods of lipid peroxidation measurement in UVA-treated human plasma samples. <i>Free Radical Research</i> , 2010 , 44, 1203-15	4	50
233	Interplay of oxidants and antioxidants during exercise: implications for muscle health. <i>Physician and Sportsmedicine</i> , 2009 , 37, 116-23	2.4	50
232	Age-related increase in xanthine oxidase activity in human plasma and rat tissues. <i>Free Radical Research</i> , 2007 , 41, 1195-200	4	49
231	Contraction of human airways by oxidative stress protection by N-acetylcysteine. <i>Free Radical Biology and Medicine</i> , 1999 , 27, 392-400	7.8	49
230	Physical exercise in the prevention and treatment of Alzheimer's disease. <i>Journal of Sport and Health Science</i> , 2020 , 9, 394-404	8.2	48
229	Growth hormone replacement therapy prevents sarcopenia by a dual mechanism: improvement of protein balance and of antioxidant defenses. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2014 , 69, 1186-98	6.4	48
228	Effect of oral glutathione on hepatic glutathione levels in rats and mice. <i>British Journal of Nutrition</i> , 1989 , 62, 683-91	3.6	48
227	Physical exercise neuroprotects ovariectomized 3xTg-AD mice through BDNF mechanisms. <i>Psychoneuroendocrinology</i> , 2014 , 45, 154-66	5	47
226	Free radicals in exhaustive physical exercise: mechanism of production, and protection by antioxidants. <i>IUBMB Life</i> , 2000 , 50, 271-7	4.7	47
225	Effect of xanthine oxidase-generated extracellular superoxide on skeletal muscle force generation. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2010 , 298, R2-8	3.2	46
224	Increased average longevity among the "Tour de France" cyclists. <i>International Journal of Sports Medicine</i> , 2011 , 32, 644-7	3.6	46
223	Hormonal regulation of pro-inflammatory and lipid peroxidation processes in liver of old ovariectomized female rats. <i>Biogerontology</i> , 2010 , 11, 229-43	4.5	46

222	Gender and age-dependent differences in the mitochondrial apoptogenic pathway in Alzheimer [®] disease. <i>Free Radical Biology and Medicine</i> , 2008 , 44, 2019-25	7.8	46
221	A New Frailty Score for Experimental Animals Based on the Clinical Phenotype: Inactivity as a Model of Frailty. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2017 , 72, 885-891	6.4	45
220	A free radical theory of frailty. <i>Free Radical Biology and Medicine</i> , 2018 , 124, 358-363	7.8	45
219	Intensified mitophagy in skeletal muscle with aging is downregulated by PGC-1alpha overexpression in vivo. <i>Free Radical Biology and Medicine</i> , 2019 , 130, 361-368	7.8	44
218	Role of glutathione in cell nucleus. <i>Free Radical Research</i> , 2010 , 44, 721-33	4	43
217	Antioxidant pathways in Alzheimer [®] disease: possibilities of intervention. <i>Current Pharmaceutical Design</i> , 2011 , 17, 3861-4	3.3	43
216	Assay of blood glutathione oxidation during physical exercise. <i>Methods in Enzymology</i> , 1995 , 251, 237-43	1.7	43
215	Early, but not late onset estrogen replacement therapy prevents oxidative stress and metabolic alterations caused by ovariectomy. <i>Antioxidants and Redox Signaling</i> , 2014 , 20, 236-46	8.4	42
214	Regulation of glutathione metabolism in Ehrlich ascites tumour cells. <i>Biochemical Journal</i> , 1992 , 286 (Pt 1), 257-62	3.8	41
213	RasGrf1 deficiency delays aging in mice. <i>Aging</i> , 2011 , 3, 262-76	5.6	41
212	Biology of frailty: Modulation of ageing genes and its importance to prevent age-associated loss of function. <i>Molecular Aspects of Medicine</i> , 2016 , 50, 88-108	16.7	41
211	The dual role of p53: DNA protection and antioxidant. <i>Free Radical Research</i> , 2011 , 45, 643-52	4	40
210	Mitochondrial DNA sequences are present inside nuclear DNA in rat tissues and increase with age. <i>Mitochondrion</i> , 2010 , 10, 479-86	4.9	40
209	Determination of oxidized glutathione in blood: high-performance liquid chromatography. <i>Methods in Enzymology</i> , 1994 , 234, 367-71	1.7	40
208	Epigenetic biomarkers: A new perspective in laboratory diagnostics. <i>Clinica Chimica Acta</i> , 2012 , 413, 1576-82	6.82	39
207	A Stress-Resistant Lipidomic Signature Confers Extreme Longevity to Humans. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2017 , 72, 30-37	6.4	38
206	Long-term exercise training improves memory in middle-aged men and modulates peripheral levels of BDNF and Cathepsin B. <i>Scientific Reports</i> , 2019 , 9, 3337	4.9	38
205	Women live longer than men: understanding molecular mechanisms offers opportunities to intervene by using estrogenic compounds. <i>Antioxidants and Redox Signaling</i> , 2010 , 13, 269-78	8.4	38

204	Mitochondrial oxidant signalling in Alzheimer's disease. <i>Journal of Alzheimer's Disease</i> , 2007 , 11, 175-81	4.3	38
203	AZT induces oxidative damage to cardiac mitochondria: protective effect of vitamins C and E. <i>Life Sciences</i> , 2004 , 76, 47-56	6.8	38
202	Effect of long-term dietary antioxidant supplementation on influenza virus infection. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2000 , 55, B496-503	6.4	38
201	Involvement of gamma-glutamyltransferase in amino-acid uptake by the lactating mammary gland of the rat. <i>Biochemical Journal</i> , 1981 , 194, 99-102	3.8	38
200	Roles of sedentary aging and lifelong physical activity in exchange of glutathione across exercising human skeletal muscle. <i>Free Radical Biology and Medicine</i> , 2014 , 73, 166-73	7.8	37
199	Mitochondrial biogenesis fails in secondary biliary cirrhosis in rats leading to mitochondrial DNA depletion and deletions. <i>American Journal of Physiology - Renal Physiology</i> , 2011 , 301, G119-27	5.1	37
198	Glutathione, oxidative stress and aging 1996 , 19, 129-139		37
197	Modulation of longevity-associated genes by estrogens or phytoestrogens. <i>Biological Chemistry</i> , 2008 , 389, 273-7	4.5	36
196	Antioxidant administration to the mother prevents oxidative stress associated with birth in the neonatal rat. <i>Life Sciences</i> , 1994 , 54, 2055-9	6.8	36
195	Role of prolactin in amino acid uptake by the lactating mammary gland of the rat. <i>FEBS Letters</i> , 1981 , 126, 250-2	3.8	36
194	Fostering antioxidant defences: up-regulation of antioxidant genes or antioxidant supplementation?. <i>British Journal of Nutrition</i> , 2007 , 98 Suppl 1, S36-40	3.6	35
193	Impairment of cysteine synthesis from methionine in rats exposed to surgical stress. <i>British Journal of Nutrition</i> , 1992 , 68, 421-9	3.6	35
192	Role of free radicals and antioxidant signaling in skeletal muscle health and pathology. <i>Infectious Disorders - Drug Targets</i> , 2009 , 9, 428-44	1.1	35
191	Role of p16 and BMI-1 in oxidative stress-induced premature senescence in human dental pulp stem cells. <i>Redox Biology</i> , 2017 , 12, 690-698	11.3	34
190	Moderate Exercise Improves Experimental Cancer Cachexia by Modulating the Redox Homeostasis. <i>Cancers</i> , 2019 , 11,	6.6	34
189	Melatonin and oestrogen treatments were able to improve neuroinflammation and apoptotic processes in dentate gyrus of old ovariectomized female rats. <i>Age</i> , 2014 , 36, 9707		34
188	PTEN mediates the antioxidant effect of resveratrol at nutritionally relevant concentrations. <i>BioMed Research International</i> , 2014 , 2014, 580852	3	34
187	A role for gamma-glutamyl transpeptidase and the amino acid transport system xc ⁻ in cystine transport by a human pancreatic duct cell line. <i>Journal of Physiology</i> , 1995 , 485 (Pt 1), 167-77	3.9	34

186	Effects of glutathione depletion on gluconeogenesis in isolated hepatocytes. <i>Archives of Biochemistry and Biophysics</i> , 1985 , 241, 75-80	4.1	34
185	Decreased cell proliferation and higher oxidative stress in fibroblasts from Down Syndrome fetuses. Preliminary study. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2014 , 1842, 116-25	6.9	33
184	Circadian system functionality, hippocampal oxidative stress, and spatial memory in the APPswe/PS1dE9 transgenic model of Alzheimer disease: effects of melatonin or ramelteon. <i>Chronobiology International</i> , 2012 , 29, 822-34	3.6	33
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