

Manuel Portero-Otin

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

190
papers

9,446
citations

56
h-index

90
g-index

205
ext. papers

10,746
ext. citations

5.6
avg, IF

5.67
L-index

#	Paper	IF	Citations
190	A signalling role for 4-hydroxy-2-nonenal in regulation of mitochondrial uncoupling. <i>EMBO Journal</i> , 2003 , 22, 4103-10	13	469
189	Pathological aspects of lipid peroxidation. <i>Free Radical Research</i> , 2010 , 44, 1125-71	4	288
188	Hyperglycemia and glycation in diabetic complications. <i>Antioxidants and Redox Signaling</i> , 2009 , 11, 3071-80	3.09	264
187	Oxidative and endoplasmic reticulum stress interplay in sporadic amyotrophic lateral sclerosis. <i>Brain</i> , 2007 , 130, 3111-23	11.2	250
186	Proteins in human brain cortex are modified by oxidation, glycooxidation, and lipoxidation. Effects of Alzheimer disease and identification of lipoxidation targets. <i>Journal of Biological Chemistry</i> , 2005 , 280, 21522-30	5.4	208
185	Membrane fatty acid unsaturation, protection against oxidative stress, and maximum life span: a homeoviscous-longevity adaptation?. <i>Annals of the New York Academy of Sciences</i> , 2002 , 959, 475-90	6.5	202
184	Stimulation of suicidal erythrocyte death by methylglyoxal. <i>Cellular Physiology and Biochemistry</i> , 2006 , 18, 223-32	3.9	197
183	Mitochondrial DNA mutations induce mitochondrial dysfunction, apoptosis and sarcopenia in skeletal muscle of mitochondrial DNA mutator mice. <i>PLoS ONE</i> , 2010 , 5, e11468	3.7	196
182	Methionine restriction decreases mitochondrial oxygen radical generation and leak as well as oxidative damage to mitochondrial DNA and proteins. <i>FASEB Journal</i> , 2006 , 20, 1064-73	0.9	188
181	Evidence of oxidative stress in the neocortex in incidental Lewy body disease. <i>Journal of Neuro pathology and Experimental Neurology</i> , 2005 , 64, 816-30	3.1	176
180	Dietary advanced glycation end products and their role in health and disease. <i>Advances in Nutrition</i> , 2015 , 6, 461-73	10	171
179	Mitochondrial membrane peroxidizability index is inversely related to maximum life span in mammals. <i>Journal of Lipid Research</i> , 1998 , 39, 1989-1994	6.3	169
178	Protein targets of oxidative damage in human neurodegenerative diseases with abnormal protein aggregates. <i>Brain Pathology</i> , 2010 , 20, 281-97	6	161
177	Early oxidative damage underlying neurodegeneration in X-adrenoleukodystrophy. <i>Human Molecular Genetics</i> , 2008 , 17, 1762-73	5.6	158
176	Oxidative damage and phospholipid fatty acyl composition in skeletal muscle mitochondria from mice underexpressing or overexpressing uncoupling protein 3. <i>Biochemical Journal</i> , 2002 , 368, 597-603	3.8	152
175	Metabolomics of human brain aging and age-related neurodegenerative diseases. <i>Journal of Neuro pathology and Experimental Neurology</i> , 2014 , 73, 640-57	3.1	131
174	Obesity changes the human gut mycobiome. <i>Scientific Reports</i> , 2015 , 5, 14600	4.9	130

173	Oxidative, glycoxidative and lipoxidative damage to rat heart mitochondrial proteins is lower after 4 months of caloric restriction than in age-matched controls. <i>Mechanisms of Ageing and Development</i> , 2002 , 123, 1437-46	5.6	108
172	Antioxidants halt axonal degeneration in a mouse model of X-adrenoleukodystrophy. <i>Annals of Neurology</i> , 2011 , 70, 84-92	9.4	107
171	Resveratrol improves motoneuron function and extends survival in SOD1(G93A) ALS mice. <i>Neurotherapeutics</i> , 2014 , 11, 419-32	6.4	106
170	A low degree of fatty acid unsaturation leads to lower lipid peroxidation and lipoxidation-derived protein modification in heart mitochondria of the longevous pigeon than in the short-lived rat. <i>Mechanisms of Ageing and Development</i> , 1999 , 106, 283-96	5.6	105
169	Hydroxytyrosol ameliorates oxidative stress and mitochondrial dysfunction in doxorubicin-induced cardiotoxicity in rats with breast cancer. <i>Biochemical Pharmacology</i> , 2014 , 90, 25-33	6	104
168	Mitochondrial ATP-synthase in the entorhinal cortex is a target of oxidative stress at stages I/II of Alzheimer's disease pathology. <i>Brain Pathology</i> , 2010 , 20, 222-33	6	104
167	Expression of the yeast NADH dehydrogenase Ndi1 in Drosophila confers increased lifespan independently of dietary restriction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 9105-10	11.5	100
166	Methylene blue upregulates Nrf2/ARE genes and prevents tau-related neurotoxicity. <i>Human Molecular Genetics</i> , 2014 , 23, 3716-32	5.6	96
165	Methylglyoxal induces advanced glycation end product (AGEs) formation and dysfunction of PDGF receptor-beta: implications for diabetic atherosclerosis. <i>FASEB Journal</i> , 2007 , 21, 3096-106	0.9	94
164	Double bond content of phospholipids and lipid peroxidation negatively correlate with maximum longevity in the heart of mammals. <i>Mechanisms of Ageing and Development</i> , 2000 , 112, 169-83	5.6	93
163	Gut Microbiota Interacts With Brain Microstructure and Function. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015 , 100, 4505-13	5.6	88
162	Lipidomics of human brain aging and Alzheimer's disease pathology. <i>International Review of Neurobiology</i> , 2015 , 122, 133-89	4.4	86
161	Neuroinflammatory signals in Alzheimer disease and APP/PS1 transgenic mice: correlations with plaques, tangles, and oligomeric species. <i>Journal of Neuropathology and Experimental Neurology</i> , 2015 , 74, 319-44	3.1	86
160	Impaired mitochondrial oxidative phosphorylation in the peroxisomal disease X-linked adrenoleukodystrophy. <i>Human Molecular Genetics</i> , 2013 , 22, 3296-305	5.6	83
159	Dietary protein restriction decreases oxidative protein damage, peroxidizability index, and mitochondrial complex I content in rat liver. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2007 , 62, 352-60	6.4	82
158	Cellular dysfunction in diabetes as maladaptive response to mitochondrial oxidative stress. <i>Experimental Diabetes Research</i> , 2012 , 2012, 696215		79
157	Deregulation of purine metabolism in Alzheimer's disease. <i>Neurobiology of Aging</i> , 2015 , 36, 68-80	5.6	78
156	Valproic acid induces antioxidant effects in X-linked adrenoleukodystrophy. <i>Human Molecular Genetics</i> , 2010 , 19, 2005-14	5.6	77

155	Age-related changes in brain mitochondrial DNA deletion and oxidative stress are differentially modulated by dietary fat type and coenzyme Q. <i>Free Radical Biology and Medicine</i> , 2011 , 50, 1053-64	7.8	75
154	Advanced glycation end product precursors impair epidermal growth factor receptor signaling. <i>Diabetes</i> , 2002 , 51, 1535-42	0.9	75
153	Effect of thyroid status on lipid composition and peroxidation in the mouse liver. <i>Free Radical Biology and Medicine</i> , 1999 , 26, 73-80	7.8	75
152	Cell stress induces TDP-43 pathological changes associated with ERK1/2 dysfunction: implications in ALS. <i>Acta Neuropathologica</i> , 2011 , 122, 259-70	14.3	74
151	Effects of fasting on oxidative stress in rat liver mitochondria. <i>Free Radical Research</i> , 2006 , 40, 339-47	4	72
150	Amyloid generation and dysfunctional immunoproteasome activation with disease progression in animal model of familial Alzheimer's disease. <i>Brain Pathology</i> , 2012 , 22, 636-53	6	71
149	Oxidative stress underlying axonal degeneration in adrenoleukodystrophy: a paradigm for multifactorial neurodegenerative diseases?. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2012 , 1822, 1475-88	6.9	71
148	Forty percent methionine restriction lowers DNA methylation, complex I ROS generation, and oxidative damage to mtDNA and mitochondrial proteins in rat heart. <i>Journal of Bioenergetics and Biomembranes</i> , 2011 , 43, 699-708	3.7	70
147	Metabolomics predicts stroke recurrence after transient ischemic attack. <i>Neurology</i> , 2015 , 84, 36-45	6.5	69
146	Oxidative damage compromises energy metabolism in the axonal degeneration mouse model of X-adrenoleukodystrophy. <i>Antioxidants and Redox Signaling</i> , 2011 , 15, 2095-107	8.4	68
145	Chromatographic evidence for pyrraline formation during protein glycation in vitro and in vivo. <i>BBA - Proteins and Proteomics</i> , 1995 , 1247, 74-80		68
144	Increased oxidation, glycooxidation, and lipoxidation of brain proteins in prion disease. <i>Free Radical Biology and Medicine</i> , 2008 , 45, 1159-66	7.8	66
143	Biomarkers of aging in Drosophila. <i>Aging Cell</i> , 2010 , 9, 466-477	9.9	63
142	Methionine restriction decreases endogenous oxidative molecular damage and increases mitochondrial biogenesis and uncoupling protein 4 in rat brain. <i>Rejuvenation Research</i> , 2007 , 10, 473-84	2.6	63
141	Membrane lipid unsaturation as physiological adaptation to animal longevity. <i>Frontiers in Physiology</i> , 2013 , 4, 372	4.6	60
140	Effect of insulin and growth hormone on rat heart and liver oxidative stress in control and caloric restricted animals. <i>Biogerontology</i> , 2005 , 6, 15-26	4.5	60
139	Lipidome analysis in multiple sclerosis reveals protein lipoxidative damage as a potential pathogenic mechanism. <i>Journal of Neurochemistry</i> , 2012 , 123, 622-34	6	59
138	Flight activity, mortality rates, and lipoxidative damage in Drosophila. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2006 , 61, 136-45	6.4	59

137	Effect of ageing and caloric restriction on specific markers of protein oxidative damage and membrane peroxidizability in rat liver mitochondria. <i>Mechanisms of Ageing and Development</i> , 2004 , 125, 529-38	5.6	58
136	Biofortification of crops with nutrients: factors affecting utilization and storage. <i>Current Opinion in Biotechnology</i> , 2017 , 44, 115-123	11.4	57
135	Pioglitazone halts axonal degeneration in a mouse model of X-linked adrenoleukodystrophy. <i>Brain</i> , 2013 , 136, 2432-43	11.2	57
134	Diabetes induces an impairment in the proteolytic activity against oxidized proteins and a heterogeneous effect in nonenzymatic protein modifications in the cytosol of rat liver and kidney. <i>Diabetes</i> , 1999 , 48, 2215-20	0.9	56
133	Protein and lipid oxidative damage and complex I content are lower in the brain of budgerigar and canaries than in mice. Relation to aging rate. <i>Age</i> , 2005 , 27, 267-80		55
132	Protein methionine content and MDA-lysine adducts are inversely related to maximum life span in the heart of mammals. <i>Mechanisms of Ageing and Development</i> , 2005 , 126, 1106-14	5.6	54
131	Correlation of fatty acid unsaturation of the major liver mitochondrial phospholipid classes in mammals to their maximum life span potential. <i>Lipids</i> , 2001 , 36, 491-8	1.6	53
130	Pyrraline ether crosslinks as a basis for protein crosslinking by the advanced Maillard reaction in aging and diabetes. <i>Archives of Biochemistry and Biophysics</i> , 1996 , 325, 152-8	4.1	53
129	Caloric restriction reveals a metabolomic and lipidomic signature in liver of male mice. <i>Aging Cell</i> , 2014 , 13, 828-37	9.9	52
128	Effect of methionine dietary supplementation on mitochondrial oxygen radical generation and oxidative DNA damage in rat liver and heart. <i>Journal of Bioenergetics and Biomembranes</i> , 2009 , 41, 309-21	3.7	52
127	Dietary supplementation of krill oil attenuates inflammation and oxidative stress in experimental ulcerative colitis in rats. <i>Scandinavian Journal of Gastroenterology</i> , 2012 , 47, 49-58	2.4	50
126	Effect of the degree of fatty acid unsaturation of rat heart mitochondria on their rates of H ₂ O ₂ production and lipid and protein oxidative damage. <i>Mechanisms of Ageing and Development</i> , 2001 , 122, 427-43	5.6	50
125	Psoriasis, metabolic syndrome and cardiovascular risk factors. A population-based study. <i>Journal of the European Academy of Dermatology and Venereology</i> , 2019 , 33, 128-135	4.6	49
124	Ageing increases Nepsilon-(carboxymethyl)lysine and caloric restriction decreases Nepsilon-(carboxyethyl)lysine and Nepsilon-(malondialdehyde)lysine in rat heart mitochondrial proteins. <i>Free Radical Research</i> , 2002 , 36, 47-54	4	49
123	Altered Expression of miR-181a-5p and miR-23a-3p Is Associated With Obesity and TNF α Induced Insulin Resistance. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018 , 103, 1447-1458	5.6	48
122	Lipidomic and metabolomic analyses reveal potential plasma biomarkers of early atheromatous plaque formation in hamsters. <i>Cardiovascular Research</i> , 2013 , 97, 642-52	9.9	48
121	Muscle mitohormesis promotes cellular survival via serine/glycine pathway flux. <i>FASEB Journal</i> , 2015 , 29, 1314-28	0.9	47
120	A fish-oil-rich diet reduces vascular oxidative stress in apoE(-/-) mice. <i>Free Radical Research</i> , 2010 , 44, 821-9	4	47

119	Effect of 40% restriction of dietary amino acids (except methionine) on mitochondrial oxidative stress and biogenesis, AIF and SIRT1 in rat liver. <i>Biogerontology</i> , 2009 , 10, 579-92	4.5	47
118	Influence of hyper- and hypothyroidism on lipid peroxidation, unsaturation of phospholipids, glutathione system and oxidative damage to nuclear and mitochondrial DNA in mice skeletal muscle. <i>Molecular and Cellular Biochemistry</i> , 2001 , 221, 41-8	4.2	47
117	T-type calcium channel blockers inhibit autophagy and promote apoptosis of malignant melanoma cells. <i>Pigment Cell and Melanoma Research</i> , 2013 , 26, 874-85	4.5	46
116	Human Aging Is a Metabolome-related Matter of Gender. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2016 , 71, 578-85	6.4	43
115	Plurality of opinion, scientific discourse and pseudoscience: an in depth analysis of the Salini et al. study claiming that Roundup Ready corn or the herbicide Roundup cause cancer in rats. <i>Transgenic Research</i> , 2013 , 22, 255-67	3.3	43
114	Effect of 8.5% and 25% caloric restriction on mitochondrial free radical production and oxidative stress in rat liver. <i>Biogerontology</i> , 2007 , 8, 555-66	4.5	43
113	Coenzyme Q addition to an n-6 PUFA-rich diet resembles benefits on age-related mitochondrial DNA deletion and oxidative stress of a MUFA-rich diet in rat heart. <i>Mechanisms of Ageing and Development</i> , 2010 , 131, 38-47	5.6	42
112	Glial fibrillary acidic protein is a major target of glycoxidative and lipoxidative damage in Pick's disease. <i>Journal of Neurochemistry</i> , 2006 , 99, 177-85	6	42
111	Neuroinflammatory Gene Regulation, Mitochondrial Function, Oxidative Stress, and Brain Lipid Modifications With Disease Progression in Tau P301S Transgenic Mice as a Model of Frontotemporal Lobar Degeneration-Tau. <i>Journal of Neuropathology and Experimental Neurology</i> , 2015 , 74, 975-99	3.1	41
110	Chromatographic evidence for Amadori product formation in rat liver aminophospholipids. <i>Life Sciences</i> , 1995 , 57, 873-9	6.8	41
109	Brain iron overload, insulin resistance, and cognitive performance in obese subjects: a preliminary MRI case-control study. <i>Diabetes Care</i> , 2014 , 37, 3076-83	14.6	40
108	Cold-induced hyperthyroidism produces oxidative damage in rat tissues and increases susceptibility to oxidants. <i>International Journal of Biochemistry and Cell Biology</i> , 2004 , 36, 1319-31	5.6	40
107	Plasma long-chain free fatty acids predict mammalian longevity. <i>Scientific Reports</i> , 2013 , 3, 3346	4.9	39
106	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
105	Human omental and subcutaneous adipose tissue exhibit specific lipidomic signatures. <i>FASEB Journal</i> , 2014 , 28, 1071-81	0.9	38
104	Multicompartmental LC-Q-TOF-based metabolomics as an exploratory tool to identify novel pathways affected by polyphenol-rich diets in mice. <i>Journal of Proteome Research</i> , 2011 , 10, 3501-12	5.6	38
103	Type-dependent oxidative damage in frontotemporal lobar degeneration: cortical astrocytes are targets of oxidative damage. <i>Journal of Neuropathology and Experimental Neurology</i> , 2008 , 67, 1122-36	3.1	38
102	Heart fatty acid unsaturation and lipid peroxidation, and aging rate, are lower in the canary and the parakeet than in the mouse. <i>Ageing Clinical and Experimental Research</i> , 1999 , 11, 44-49	4.8	38

101	The distribution of carotenoids in hens fed on biofortified maize is influenced by feed composition, absorption, resource allocation and storage. <i>Scientific Reports</i> , 2016 , 6, 35346	4.9	36
100	Skeletal muscle uncoupling-induced longevity in mice is linked to increased substrate metabolism and induction of the endogenous antioxidant defense system. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013 , 304, E495-506	6	34
99	Plasma lipidomics discloses metabolic syndrome with a specific HDL phenotype. <i>FASEB Journal</i> , 2014 , 28, 5163-71	0.9	34
98	Protein nonenzymatic modifications and proteasome activity in skeletal muscle from the short-lived rat and long-lived pigeon. <i>Experimental Gerontology</i> , 2004 , 39, 1527-35	4.5	33
97	The Gut Metagenome Changes in Parallel to Waist Circumference, Brain Iron Deposition, and Cognitive Function. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2017 , 102, 2962-2973	5.6	31
96	Effect of Dietary Bioactive Compounds on Mitochondrial and Metabolic Flexibility. <i>Diseases (Basel, Switzerland)</i> , 2016 , 4,	4.4	31
95	Effect of every other day feeding on mitochondrial free radical production and oxidative stress in mouse liver. <i>Rejuvenation Research</i> , 2008 , 11, 621-9	2.6	30
94	Non-enzymatic modification of aminophospholipids by carbonyl-amine reactions. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 3285-313	6.3	28
93	Stanozolol treatment decreases the mitochondrial ROS generation and oxidative stress induced by acute exercise in rat skeletal muscle. <i>Journal of Applied Physiology</i> , 2011 , 110, 661-9	3.7	28
92	Cell death and learning impairment in mice caused by in vitro modified pro-NGF can be related to its increased oxidative modifications in Alzheimer disease. <i>American Journal of Pathology</i> , 2009 , 175, 2574-85	5.8	28
91	Survival and death of mature avian motoneurons in organotypic slice culture: trophic requirements for survival and different types of degeneration. <i>Journal of Comparative Neurology</i> , 2007 , 501, 669-90	3.4	27
90	Lipidomic profiling identifies signatures of metabolic risk. <i>EBioMedicine</i> , 2020 , 51, 102520	8.8	27
89	Obesity Impairs Short-Term and Working Memory through Gut Microbial Metabolism of Aromatic Amino Acids. <i>Cell Metabolism</i> , 2020 , 32, 548-560.e7	24.6	27
88	Region-specific vulnerability to lipid peroxidation and evidence of neuronal mechanisms for polyunsaturated fatty acid biosynthesis in the healthy adult human central nervous system. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2017 , 1862, 485-495	5	26
87	Aberrant regulation of the GSK-3 β /NRF2 axis unveils a novel therapy for adrenoleukodystrophy. <i>EMBO Molecular Medicine</i> , 2018 , 10,	12	26
86	Dietary antioxidants interfere with Amplex Red-coupled-fluorescence assays. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 388, 443-9	3.4	26
85	Altered glycolipid and glycerophospholipid signaling drive inflammatory cascades in adrenomyeloneuropathy. <i>Human Molecular Genetics</i> , 2015 , 24, 6861-76	5.6	25
84	Fish oil and 3-thia fatty acid have additive effects on lipid metabolism but antagonistic effects on oxidative damage when fed to rats for 50 weeks. <i>Journal of Nutritional Biochemistry</i> , 2012 , 23, 1384-93	6.3	25

83	Carboxymethylated phosphatidylethanolamine in mitochondrial membranes of mammals--evidence for intracellular lipid glycoxidation. <i>FEBS Journal</i> , 1998 , 255, 685-9		25
82	Carotenoid-enriched transgenic corn delivers bioavailable carotenoids to poultry and protects them against coccidiosis. <i>Plant Biotechnology Journal</i> , 2016 , 14, 160-8	11.6	25
81	Sixty years old is the breakpoint of human frontal cortex aging. <i>Free Radical Biology and Medicine</i> , 2017 , 103, 14-22	7.8	24
80	Activation of sirtuin 1 as therapy for the peroxisomal disease adrenoleukodystrophy. <i>Cell Death and Differentiation</i> , 2015 , 22, 1742-53	12.7	23
79	Early and gender-specific differences in spinal cord mitochondrial function and oxidative stress markers in a mouse model of ALS. <i>Acta Neuropathologica Communications</i> , 2016 , 4, 3	7.3	23
78	Specific lipidome signatures in central nervous system from methionine-restricted mice. <i>Journal of Proteome Research</i> , 2013 , 12, 2679-89	5.6	23
77	Inhibition of renin angiotensin system decreases renal protein oxidative damage in diabetic rats. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 368, 528-35	3.4	23
76	Gut bacterial ClpB-like gene function is associated with decreased body weight and a characteristic microbiota profile. <i>Microbiome</i> , 2020 , 8, 59	16.6	22
75	Redox proteomic profiling of neuroketal-adducted proteins in human brain: Regional vulnerability at middle age increases in the elderly. <i>Free Radical Biology and Medicine</i> , 2016 , 95, 1-15	7.8	21
74	Cryptic exon splicing function of TARDBP interacts with autophagy in nervous tissue. <i>Autophagy</i> , 2018 , 14, 1398-1403	10.2	21
73	Targeted activation of CREB in reactive astrocytes is neuroprotective in focal acute cortical injury. <i>Glia</i> , 2016 , 64, 853-74	9	21
72	Dietary intake of green tea polyphenols regulates insulin sensitivity with an increase in AMP-activated protein kinase content and changes in mitochondrial respiratory complexes. <i>Molecular Nutrition and Food Research</i> , 2013 , 57, 459-70	5.9	20
71	Biomarker Identification, Safety, and Efficacy of High-Dose Antioxidants for Adrenomyeloneuropathy: a Phase II Pilot Study. <i>Neurotherapeutics</i> , 2019 , 16, 1167-1182	6.4	19
70	Formation of S-(carboxymethyl)-cysteine in rat liver mitochondrial proteins: effects of caloric and methionine restriction. <i>Amino Acids</i> , 2013 , 44, 361-71	3.5	19
69	Interplay between TDP-43 and docosahexaenoic acid-related processes in amyotrophic lateral sclerosis. <i>Neurobiology of Disease</i> , 2016 , 88, 148-60	7.5	17
68	Lifelong treatment with atenolol decreases membrane fatty acid unsaturation and oxidative stress in heart and skeletal muscle mitochondria and improves immunity and behavior, without changing mice longevity. <i>Aging Cell</i> , 2014 , 13, 551-60	9.9	17
67	Urinary pyrroline as a biochemical marker of non-oxidative Maillard reactions in vivo. <i>Life Sciences</i> , 1997 , 60, 279-87	6.8	17
66	Randomised intervention study to assess the prevalence of subclinical vascular disease and hidden kidney disease and its impact on morbidity and mortality: The ILERVAS project. <i>Nefrologia</i> , 2016 , 36, 389-96	1.5	17

65	Mitochondrial dysfunction and oxidative and endoplasmic reticulum stress in argyrophilic grain disease. <i>Journal of Neuropathology and Experimental Neurology</i> , 2011 , 70, 253-63	3.1	16
64	Lipidomics reveals altered biosynthetic pathways of glycerophospholipids and cell signaling as biomarkers of the polycystic ovary syndrome. <i>Oncotarget</i> , 2018 , 9, 4522-4536	3.3	16
63	Metabolomics uncovers the role of adipose tissue PDXK in adipogenesis and systemic insulin sensitivity. <i>Diabetologia</i> , 2016 , 59, 822-32	10.3	15
62	Regional vulnerability to lipoxidative damage and inflammation in normal human brain aging. <i>Experimental Gerontology</i> , 2018 , 111, 218-228	4.5	15
61	Modification of brain lipids but not phenotype in alpha-synucleinopathy transgenic mice by long-term dietary n-3 fatty acids. <i>Neurochemistry International</i> , 2010 , 56, 318-28	4.4	15
60	Effects of increased iron intake during the neonatal period on the brain of adult AbetaPP/PS1 transgenic mice. <i>Journal of Alzheimer's Disease</i> , 2010 , 19, 1069-80	4.3	15
59	Maillard reaction versus other nonenzymatic modifications in neurodegenerative processes. <i>Annals of the New York Academy of Sciences</i> , 2008 , 1126, 315-9	6.5	15
58	Metabolomics Predicts Neuroimaging Characteristics of Transient Ischemic Attack Patients. <i>EBioMedicine</i> , 2016 , 14, 131-138	8.8	15
57	Nutridynamics: mechanism(s) of action of bioactive compounds and their effects. <i>International Journal of Food Sciences and Nutrition</i> , 2015 , 66 Suppl 1, S22-30	3.7	14
56	Impairment of Mitochondrial Redox Status in Peripheral Lymphocytes of Multiple Sclerosis Patients. <i>Frontiers in Neuroscience</i> , 2019 , 13, 938	5.1	14
55	Specific Metabolomics Adaptations Define a Differential Regional Vulnerability in the Adult Human Cerebral Cortex. <i>Frontiers in Molecular Neuroscience</i> , 2016 , 9, 138	6.1	14
54	High-carotenoid maize: development of plant biotechnology prototypes for human and animal health and nutrition. <i>Phytochemistry Reviews</i> , 2018 , 17, 195-209	7.7	13
53	A salmon peptide diet alleviates experimental colitis as compared with fish oil. <i>Journal of Nutritional Science</i> , 2013 , 2, e2	2.7	13
52	Metabotyping human endometrioid endometrial adenocarcinoma reveals an implication of endocannabinoid metabolism. <i>Oncotarget</i> , 2016 , 7, 52364-52374	3.3	12
51	Depletion of oxidative and endoplasmic reticulum stress regulators in Pick disease. <i>Free Radical Biology and Medicine</i> , 2010 , 48, 1302-10	7.8	11
50	Poultry diets containing (keto)carotenoid-enriched maize improve egg yolk color and maintain quality. <i>Animal Feed Science and Technology</i> , 2020 , 260, 114334	3	11
49	Dietary lipid unsaturation influences survival and oxidative modifications of an amyotrophic lateral sclerosis model in a gender-specific manner. <i>NeuroMolecular Medicine</i> , 2014 , 16, 669-85	4.6	10
48	Vitamin D receptor Bsm1 polymorphism modulates soy intake and 25-hydroxyvitamin D supplementation benefits in cardiovascular disease risk factors profile. <i>Genes and Nutrition</i> , 2013 , 8, 561-4 ³	4.3	10

47	Tetradecylthioacetic acid attenuates inflammation and has antioxidative potential during experimental colitis in rats. <i>Digestive Diseases and Sciences</i> , 2013 , 58, 97-106	4	10
46	mRNA is linked to cholesterol metabolism in adipose tissue. <i>FASEB Journal</i> , 2017 , 31, 4482-4491	0.9	10
45	Plant-derived phenolics inhibit the accrual of structurally characterised protein and lipid oxidative modifications. <i>PLoS ONE</i> , 2012 , 7, e43308	3.7	10
44	The β -blocker atenolol lowers the longevity-related degree of fatty acid unsaturation, decreases protein oxidative damage, and increases extracellular signal-regulated kinase signaling in the heart of C57BL/6 mice. <i>Rejuvenation Research</i> , 2010 , 13, 683-93	2.6	10
43	Double-edged sword behaviour of gallic acid and its interaction with peroxidases in human microvascular endothelial cell culture (HMEC-1). Antioxidant and pro-oxidant effects.. <i>Acta Biochimica Polonica</i> , 2010 , 57,	2	10
42	Tumour-microenvironmental blood flow determines a metabolomic signature identifying lysophospholipids and resolvin D as biomarkers in endometrial cancer patients. <i>Oncotarget</i> , 2017 , 8, 109018-109026	2.3	10
41	Regulation of Membrane Unsaturation as Antioxidant Adaptive Mechanism in Long-lived Animal Species. <i>Free Radicals and Antioxidants</i> , 2011 , 1, 3-12	1.7	9
40	Mechanisms of glycation in atherogenesis. <i>Medical Hypotheses</i> , 1993 , 40, 174-81	3.8	9
39	Lipid Profile in Human Frontal Cortex Is Sustained Throughout Healthy Adult Life Span to Decay at Advanced Ages. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2018 , 73, 703-710	6.4	8
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