

# Reinald Pamplona

## 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.

249 papers	11,583 citations	60 h-index	98 g-index
287 ext. papers	13,321 ext. citations	5.8 avg, IF	6.18 L-index

#	Paper	IF	Citations
249	Life and death: metabolic rate, membrane composition, and life span of animals. <i>Physiological Reviews</i> , <b>2007</b> , 87, 1175-213	47.9	603
248	A signalling role for 4-hydroxy-2-nonenal in regulation of mitochondrial uncoupling. <i>EMBO Journal</i> , <b>2003</b> , 22, 4103-10	13	469
247	Pathological aspects of lipid peroxidation. <i>Free Radical Research</i> , <b>2010</b> , 44, 1125-71	4	288
246	Hyperglycemia and glycation in diabetic complications. <i>Antioxidants and Redox Signaling</i> , <b>2009</b> , 11, 3071-80	8.09	264
245	Oxidative and endoplasmic reticulum stress interplay in sporadic amyotrophic lateral sclerosis. <i>Brain</i> , <b>2007</b> , 130, 3111-23	11.2	250
244	Membrane phospholipids, lipoxidative damage and molecular integrity: a causal role in aging and longevity. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2008</b> , 1777, 1249-62	4.6	227
243	Proteins in human brain cortex are modified by oxidation, glycoxidation, and lipoxidation. Effects of Alzheimer disease and identification of lipoxidation targets. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 21522-30	5.4	208
242	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> , <b>2002</b> , 959, 475-90	6.5	202
241	Molecular and structural antioxidant defenses against oxidative stress in animals. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2011</b> , 301, R843-63	3.2	196
240	Mitochondrial DNA mutations induce mitochondrial dysfunction, apoptosis and sarcopenia in skeletal muscle of mitochondrial DNA mutator mice. <i>PLoS ONE</i> , <b>2010</b> , 5, e11468	3.7	196
239	Is the mitochondrial free radical theory of aging intact?. <i>Antioxidants and Redox Signaling</i> , <b>2006</b> , 8, 582-98	8.4	190
238	Methionine restriction decreases mitochondrial oxygen radical generation and leak as well as oxidative damage to mitochondrial DNA and proteins. <i>FASEB Journal</i> , <b>2006</b> , 20, 1064-73	0.9	188
237	Mitochondrial oxidative stress, aging and caloric restriction: the protein and methionine connection. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2006</b> , 1757, 496-508	4.6	187
236	Evidence of oxidative stress in the neocortex in incidental Lewy body disease. <i>Journal of Neuropathology and Experimental Neurology</i> , <b>2005</b> , 64, 816-30	3.1	176
235	Mitochondrial membrane peroxidizability index is inversely related to maximum life span in mammals. <i>Journal of Lipid Research</i> , <b>1998</b> , 39, 1989-1994	6.3	169
234	Protein targets of oxidative damage in human neurodegenerative diseases with abnormal protein aggregates. <i>Brain Pathology</i> , <b>2010</b> , 20, 281-97	6	161
233	Early oxidative damage underlying neurodegeneration in X-adrenoleukodystrophy. <i>Human Molecular Genetics</i> , <b>2008</b> , 17, 1762-73	5.6	158

232	Mitochondrial membrane peroxidizability index is inversely related to maximum life span in mammals. <i>Journal of Lipid Research</i> , <b>1998</b> , 39, 1989-94	6.3	155
231	Oxidative damage and phospholipid fatty acyl composition in skeletal muscle mitochondria from mice underexpressing or overexpressing uncoupling protein 3. <i>Biochemical Journal</i> , <b>2002</b> , 368, 597-603	3.8	152
230	Metabolomics of human brain aging and age-related neurodegenerative diseases. <i>Journal of Neuropathology and Experimental Neurology</i> , <b>2014</b> , 73, 640-57	3.1	131
229	Obesity changes the human gut mycobiome. <i>Scientific Reports</i> , <b>2015</b> , 5, 14600	4.9	130
228	Low fatty acid unsaturation protects against lipid peroxidation in liver mitochondria from long-lived species: the pigeon and human case. <i>Mechanisms of Ageing and Development</i> , <b>1996</b> , 86, 53-66	5.6	121
227	Advanced lipoxidation end-products. <i>Chemico-Biological Interactions</i> , <b>2011</b> , 192, 14-20	5	115
226	Deficient Endoplasmic Reticulum-Mitochondrial Phosphatidylserine Transfer Causes Liver Disease. <i>Cell</i> , <b>2019</b> , 177, 881-895.e17	56.2	109
225	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> , <b>2002</b> , 123, 1437-46	5.6	108
224	Antioxidants halt axonal degeneration in a mouse model of X-adrenoleukodystrophy. <i>Annals of Neurology</i> , <b>2011</b> , 70, 84-92	9.4	107
223	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> , <b>1999</b> , 106, 283-96	5.6	105
222	Hydroxytyrosol ameliorates oxidative stress and mitochondrial dysfunction in doxorubicin-induced cardiotoxicity in rats with breast cancer. <i>Biochemical Pharmacology</i> , <b>2014</b> , 90, 25-33	6	104
221	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> , <b>2010</b> , 20, 222-33	6	104
220	Highly resistant macromolecular components and low rate of generation of endogenous damage: two key traits of longevity. <i>Ageing Research Reviews</i> , <b>2007</b> , 6, 189-210	12	101
219	Expression of the yeast NADH dehydrogenase Ndi1 in <i>Drosophila</i> confers increased lifespan independently of dietary restriction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 9105-10	11.5	100
218	Methylglyoxal induces advanced glycation end product (AGEs) formation and dysfunction of PDGF receptor-beta: implications for diabetic atherosclerosis. <i>FASEB Journal</i> , <b>2007</b> , 21, 3096-106	0.9	94
217	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> , <b>2000</b> , 112, 169-83	5.6	93
216	Forty percent and eighty percent methionine restriction decrease mitochondrial ROS generation and oxidative stress in rat liver. <i>Biogerontology</i> , <b>2008</b> , 9, 183-96	4.5	92
215	Lipidomics of human brain aging and Alzheimer's disease pathology. <i>International Review of Neurobiology</i> , <b>2015</b> , 122, 133-89	4.4	86

214	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> , <b>2015</b> , 74, 319-44	3.1	86
213	Impaired mitochondrial oxidative phosphorylation in the peroxisomal disease X-linked adrenoleukodystrophy. <i>Human Molecular Genetics</i> , <b>2013</b> , 22, 3296-305	5.6	83
212	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> , <b>2007</b> , 62, 352-60	6.4	82
211	Forty percent methionine restriction decreases mitochondrial oxygen radical production and leak at complex I during forward electron flow and lowers oxidative damage to proteins and mitochondrial DNA in rat kidney and brain mitochondria. <i>Rejuvenation Research</i> , <b>2009</b> , 12, 421-34	2.6	81
210	Cellular dysfunction in diabetes as maladaptive response to mitochondrial oxidative stress. <i>Experimental Diabetes Research</i> , <b>2012</b> , 2012, 696215		79
209	Deregulation of purine metabolism in Alzheimer's disease. <i>Neurobiology of Aging</i> , <b>2015</b> , 36, 68-80	5.6	78
208	Valproic acid induces antioxidant effects in X-linked adrenoleukodystrophy. <i>Human Molecular Genetics</i> , <b>2010</b> , 19, 2005-14	5.6	77
207	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> , <b>2011</b> , 50, 1053-64	7.8	75
206	Advanced glycation end product precursors impair epidermal growth factor receptor signaling. <i>Diabetes</i> , <b>2002</b> , 51, 1535-42	0.9	75
205	Effect of thyroid status on lipid composition and peroxidation in the mouse liver. <i>Free Radical Biology and Medicine</i> , <b>1999</b> , 26, 73-80	7.8	75
204	Cell stress induces TDP-43 pathological changes associated with ERK1/2 dysfunction: implications in ALS. <i>Acta Neuropathologica</i> , <b>2011</b> , 122, 259-70	14.3	74
203	Effects of fasting on oxidative stress in rat liver mitochondria. <i>Free Radical Research</i> , <b>2006</b> , 40, 339-47	4	72
202	Amyloid generation and dysfunctional immunoproteasome activation with disease progression in animal model of familial Alzheimer's disease. <i>Brain Pathology</i> , <b>2012</b> , 22, 636-53	6	71
201	Oxidative stress underlying axonal degeneration in adrenoleukodystrophy: a paradigm for multifactorial neurodegenerative diseases?. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2012</b> , 1822, 1475-88	6.9	71
200	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> , <b>2011</b> , 43, 699-708	3.7	70
199	Metabolomics predicts stroke recurrence after transient ischemic attack. <i>Neurology</i> , <b>2015</b> , 84, 36-45	6.5	69
198	Low fatty acid unsaturation: a mechanism for lowered lipoperoxidative modification of tissue proteins in mammalian species with long life spans. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2000</b> , 55, B286-91	6.4	69
197	Oxidative damage compromises energy metabolism in the axonal degeneration mouse model of X-adrenoleukodystrophy. <i>Antioxidants and Redox Signaling</i> , <b>2011</b> , 15, 2095-107	8.4	68

196	Dietary vitamin C decreases endogenous protein oxidative damage, malondialdehyde, and lipid peroxidation and maintains fatty acid unsaturation in the guinea pig liver. <i>Free Radical Biology and Medicine</i> , <b>1994</b> , 17, 105-15	7.8	68
195	Increased oxidation, glycoxidation, and lipoxidation of brain proteins in prion disease. <i>Free Radical Biology and Medicine</i> , <b>2008</b> , 45, 1159-66	7.8	66
194	Biomarkers of aging in Drosophila. <i>Aging Cell</i> , <b>2010</b> , 9, 466-477	9.9	63
193	Methionine restriction decreases endogenous oxidative molecular damage and increases mitochondrial biogenesis and uncoupling protein 4 in rat brain. <i>Rejuvenation Research</i> , <b>2007</b> , 10, 473-84	2.6	63
192	Modification of the longevity-related degree of fatty acid unsaturation modulates oxidative damage to proteins and mitochondrial DNA in liver and brain. <i>Experimental Gerontology</i> , <b>2004</b> , 39, 725-33	4.5	62
191	Membrane lipid unsaturation as physiological adaptation to animal longevity. <i>Frontiers in Physiology</i> , <b>2013</b> , 4, 372	4.6	60
190	Effect of insulin and growth hormone on rat heart and liver oxidative stress in control and caloric restricted animals. <i>Biogerontology</i> , <b>2005</b> , 6, 15-26	4.5	60
189	Rapamycin reverses age-related increases in mitochondrial ROS production at complex I, oxidative stress, accumulation of mtDNA fragments inside nuclear DNA, and lipofuscin level, and increases autophagy, in the liver of middle-aged mice. <i>Experimental Gerontology</i> , <b>2016</b> , 83, 130-8	4.5	60
188	Lipidome analysis in multiple sclerosis reveals protein lipoxidative damage as a potential pathogenic mechanism. <i>Journal of Neurochemistry</i> , <b>2012</b> , 123, 622-34	6	59
187	Flight activity, mortality rates, and lipoxidative damage in Drosophila. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2006</b> , 61, 136-45	6.4	59
186	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> , <b>2004</b> , 125, 529-38	5.6	58
185	Pioglitazone halts axonal degeneration in a mouse model of X-linked adrenoleukodystrophy. <i>Brain</i> , <b>2013</b> , 136, 2432-43	11.2	57
184	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> , <b>1999</b> , 48, 2215-20	0.9	56
183	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> , <b>2005</b> , 27, 267-80		55
182	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> , <b>2005</b> , 126, 1106-14	5.6	54
181	Correlation of fatty acid unsaturation of the major liver mitochondrial phospholipid classes in mammals to their maximum life span potential. <i>Lipids</i> , <b>2001</b> , 36, 491-8	1.6	53
180	Caloric restriction reveals a metabolomic and lipidomic signature in liver of male mice. <i>Aging Cell</i> , <b>2014</b> , 13, 828-37	9.9	52
179	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> , <b>2009</b> , 41, 309-21	3.7	52

178	Effects of aging and methionine restriction applied at old age on ROS generation and oxidative damage in rat liver mitochondria. <i>Biogerontology</i> , <b>2012</b> , 13, 399-411	4.5	51
177	Dietary supplementation of krill oil attenuates inflammation and oxidative stress in experimental ulcerative colitis in rats. <i>Scandinavian Journal of Gastroenterology</i> , <b>2012</b> , 47, 49-58	2.4	50
176	Effect of the degree of fatty acid unsaturation of rat heart mitochondria on their rates of H <sub>2</sub> O <sub>2</sub> production and lipid and protein oxidative damage. <i>Mechanisms of Ageing and Development</i> , <b>2001</b> , 122, 427-43	5.6	50
175	An evolutionary comparative scan for longevity-related oxidative stress resistance mechanisms in homeotherms. <i>Biogerontology</i> , <b>2011</b> , 12, 409-35	4.5	49
174	Aging 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> , <b>2002</b> , 36, 47-54	4	49
173	Lipidomic and metabolomic analyses reveal potential plasma biomarkers of early atheromatous plaque formation in hamsters. <i>Cardiovascular Research</i> , <b>2013</b> , 97, 642-52	9.9	48
172	Muscle mitohormesis promotes cellular survival via serine/glycine pathway flux. <i>FASEB Journal</i> , <b>2015</b> , 29, 1314-28	0.9	47
171	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> , <b>2009</b> , 10, 579-92	4.5	47
170	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> , <b>2001</b> , 221, 41-8	4.2	47
169	T-type calcium channel blockers inhibit autophagy and promote apoptosis of malignant melanoma cells. <i>Pigment Cell and Melanoma Research</i> , <b>2013</b> , 26, 874-85	4.5	46
168	Lipidomics Reveals a Tissue-Specific Fingerprint. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 1165	4.6	45
167	A plasma metabolomic signature discloses human breast cancer. <i>Oncotarget</i> , <b>2017</b> , 8, 19522-19533	3.3	44
166	Human Aging Is a Metabolome-related Matter of Gender. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2016</b> , 71, 578-85	6.4	43
165	Effect of 8.5% and 25% caloric restriction on mitochondrial free radical production and oxidative stress in rat liver. <i>Biogerontology</i> , <b>2007</b> , 8, 555-66	4.5	43
164	Prefrontal cortex, caloric restriction and stress during aging: studies on dopamine and acetylcholine release, BDNF and working memory. <i>Behavioural Brain Research</i> , <b>2011</b> , 216, 136-45	3.4	42
163	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> , <b>2010</b> , 131, 38-47	5.6	42
162	Differential effects of experimental and cold-induced hyperthyroidism on factors inducing rat liver oxidative damage. <i>Journal of Experimental Biology</i> , <b>2006</b> , 209, 817-25	3	42
161	Glial fibrillary acidic protein is a major target of glycoxidative and lipoxidative damage in Pick's disease. <i>Journal of Neurochemistry</i> , <b>2006</b> , 99, 177-85	6	42



160	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> , <b>2015</b> , 74, 975-99	3.1	41
159	Thyroid status modulates glycoxidative and lipoxidative modification of tissue proteins. <i>Free Radical Biology and Medicine</i> , <b>1999</b> , 27, 901-10	7.8	41
158	Chromatographic evidence for Amadori product formation in rat liver aminophospholipids. <i>Life Sciences</i> , <b>1995</b> , 57, 873-9	6.8	41
157	Cold-induced hyperthyroidism produces oxidative damage in rat tissues and increases susceptibility to oxidants. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2004</b> , 36, 1319-31	5.6	40
156	Plasma long-chain free fatty acids predict mammalian longevity. <i>Scientific Reports</i> , <b>2013</b> , 3, 3346	4.9	39
155	A Stress-Resistant Lipidomic Signature Confers Extreme Longevity to Humans. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2017</b> , 72, 30-37	6.4	38
154	Human omental and subcutaneous adipose tissue exhibit specific lipidomic signatures. <i>FASEB Journal</i> , <b>2014</b> , 28, 1071-81	0.9	38
153	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> , <b>2011</b> , 10, 3501-12	5.6	38
152	Type-dependent oxidative damage in frontotemporal lobar degeneration: cortical astrocytes are targets of oxidative damage. <i>Journal of Neuropathology and Experimental Neurology</i> , <b>2008</b> , 67, 1122-36	3.1	38
151	Heart fatty acid unsaturation and lipid peroxidation, and aging rate, are lower in the canary and the parakeet than in the mouse. <i>Aging Clinical and Experimental Research</i> , <b>1999</b> , 11, 44-49	4.8	38
150	Functional expression of voltage-gated calcium channels in human melanoma. <i>Pigment Cell and Melanoma Research</i> , <b>2012</b> , 25, 200-12	4.5	37
149	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> , <b>2013</b> , 304, E495-506	6	34
148	Plasma lipidomics discloses metabolic syndrome with a specific HDL phenotype. <i>FASEB Journal</i> , <b>2014</b> , 28, 5163-71	0.9	34
147	Protein nonenzymatic modifications and proteasome activity in skeletal muscle from the short-lived rat and long-lived pigeon. <i>Experimental Gerontology</i> , <b>2004</b> , 39, 1527-35	4.5	33
146	Cysteine dietary supplementation reverses the decrease in mitochondrial ROS production at complex I induced by methionine restriction. <i>Journal of Bioenergetics and Biomembranes</i> , <b>2015</b> , 47, 199-208	2.7	32
145	Exceptional human longevity is associated with a specific plasma phenotype of ether lipids. <i>Redox Biology</i> , <b>2019</b> , 21, 101127	11.3	32
144	Effect of every other day feeding on mitochondrial free radical production and oxidative stress in mouse liver. <i>Rejuvenation Research</i> , <b>2008</b> , 11, 621-9	2.6	30
143	Effect of graded corticosterone treatment on aging-related markers of oxidative stress in rat liver mitochondria. <i>Biogerontology</i> , <b>2007</b> , 8, 1-11	4.5	29

142	Non-enzymatic modification of aminophospholipids by carbonyl-amine reactions. <i>International Journal of Molecular Sciences</i> , <b>2013</b> , 14, 3285-313	6.3	28
141	Stanozolol treatment decreases the mitochondrial ROS generation and oxidative stress induced by acute exercise in rat skeletal muscle. <i>Journal of Applied Physiology</i> , <b>2011</b> , 110, 661-9	3.7	28
140	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> , <b>2009</b> , 175, 2574-85	5.8	28
139	Effect of experimental and cold exposure induced hyperthyroidism on H <sub>2</sub> O <sub>2</sub> production and susceptibility to oxidative stress of rat liver mitochondria. <i>Archives of Biochemistry and Biophysics</i> , <b>2006</b> , 447, 11-22	4.1	28
138	Loss of SIRT2 leads to axonal degeneration and locomotor disability associated with redox and energy imbalance. <i>Aging Cell</i> , <b>2017</b> , 16, 1404-1413	9.9	27
137	Evidence for the Maillard reaction in rat lung collagen and its relationship with solubility and age. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>1995</b> , 1272, 53-60	6.9	27
136	Lipidomic profiling identifies signatures of metabolic risk. <i>EBioMedicine</i> , <b>2020</b> , 51, 102520	8.8	27
135	Obesity Impairs Short-Term and Working Memory through Gut Microbial Metabolism of Aromatic Amino Acids. <i>Cell Metabolism</i> , <b>2020</b> , 32, 548-560.e7	24.6	27
134	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> , <b>2017</b> , 1862, 485-495	5	26
133	Aberrant regulation of the GSK-3 $\beta$ /NRF2 axis unveils a novel therapy for adrenoleukodystrophy. <i>EMBO Molecular Medicine</i> , <b>2018</b> , 10,	12	26
132	Dietary antioxidants interfere with Amplex Red-coupled-fluorescence assays. <i>Biochemical and Biophysical Research Communications</i> , <b>2009</b> , 388, 443-9	3.4	26
131	Effect of dietary vitamin E levels on fatty acid profiles and nonenzymatic lipid peroxidation in the guinea pig liver. <i>Lipids</i> , <b>1996</b> , 31, 963-70	1.6	26
130	Relationship between lipid peroxidation, fatty acid composition, and ascorbic acid in the liver during carbohydrate and caloric restriction in mice. <i>Archives of Biochemistry and Biophysics</i> , <b>1993</b> , 306, 59-64	4.1	26
129	Altered glycolipid and glycerophospholipid signaling drive inflammatory cascades in adrenomyeloneuropathy. <i>Human Molecular Genetics</i> , <b>2015</b> , 24, 6861-76	5.6	25
128	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> , <b>2012</b> , 23, 1384-93	6.3	25
127	Carboxymethylated phosphatidylethanolamine in mitochondrial membranes of mammals--evidence for intracellular lipid glycoxidation. <i>FEBS Journal</i> , <b>1998</b> , 255, 685-9		25
126	Age-related fluorescence in rat lung collagen. <i>Lung</i> , <b>1995</b> , 173, 177-85	2.9	25
125	Sixty years old is the breakpoint of human frontal cortex aging. <i>Free Radical Biology and Medicine</i> , <b>2017</b> , 103, 14-22	7.8	24



124	Protein modification by advanced Maillard adducts can be modulated by dietary polyunsaturated fatty acids. <i>Biochemical Society Transactions</i> , <b>2003</b> , 31, 1403-5	5.1	24
123	Activation of sirtuin 1 as therapy for the peroxisomal disease adrenoleukodystrophy. <i>Cell Death and Differentiation</i> , <b>2015</b> , 22, 1742-53	12.7	23
122	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> , <b>2016</b> , 4, 3	7.3	23
121	Specific lipidome signatures in central nervous system from methionine-restricted mice. <i>Journal of Proteome Research</i> , <b>2013</b> , 12, 2679-89	5.6	23
120	Inhibition of renin angiotensin system decreases renal protein oxidative damage in diabetic rats. <i>Biochemical and Biophysical Research Communications</i> , <b>2008</b> , 368, 528-35	3.4	23
119	Lipids and lipoxidation in human brain aging. Mitochondrial ATP-synthase as a key lipoxidation target. <i>Redox Biology</i> , <b>2019</b> , 23, 101082	11.3	23
118	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> , <b>2016</b> , 95, 1-15	7.8	21
117	Cryptic exon splicing function of TARDBP interacts with autophagy in nervous tissue. <i>Autophagy</i> , <b>2018</b> , 14, 1398-1403	10.2	21
116	Lipid profile of cerebrospinal fluid in multiple sclerosis patients: a potential tool for diagnosis. <i>Scientific Reports</i> , <b>2019</b> , 9, 11313	4.9	21
115	dj-1 regulates oxidative stress, insulin-like signaling and development in <i>Drosophila melanogaster</i> . <i>Cell Cycle</i> , <b>2012</b> , 11, 3876-86	4.7	21
114	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> , <b>2013</b> , 57, 459-70	5.9	20
113	Mitochondrial DNA damage and animal longevity: insights from comparative studies. <i>Journal of Aging Research</i> , <b>2011</b> , 2011, 807108	2.3	20
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3	Lipoxidation: features, neurological tissues, and aging <b>2021</b> , 83-96		0
2	Nontargeted Brain Lipidomic Profiling Performed by UPLC-ESI-qToF-MS/MS. <i>Neuromethods</i> , <b>2017</b> , 75-90	0.4	
1	Endogenous Toxins Associated with Life Expectancy and Aging	769-786	