Reinald Pamplona

List of Publications by Year in Descending Order

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	Selective brain regional changes in lipid profile with human aging.. *GeroScience*, **2022**, 1	8.9	1
248	Microbiota alterations in proline metabolism impact depression.. *Cell Metabolism*, **2022**, 34, 681-701.e10	24.6	7
247	Plasma profiling reveals a blood-based metabolic fingerprint of obstructive sleep apnea. *Biomedicine and Pharmacotherapy*, **2021**, 145, 112425	7.5	2
246	Age-Related Changes in Lipidome of Rat Frontal Cortex and Cerebellum Are Partially Reversed by Methionine Restriction Applied in Old Age. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	1
245	Lifelong soya consumption in males does not increase lifespan but increases health span under a metabolic stress such as type 2 diabetes mellitus. *Mechanisms of Ageing and Development*, **2021**, 200, 111596	5.6	1
244	Restriction of Dietary Advanced Glycation End Products Induces a Differential Plasma Metabolome and Lipidome Profile. *Molecular Nutrition and Food Research*, **2021**, 65, e2000499	5.9	0
243	Subclinical atheromatosis localization and burden in a low-to-moderate cardiovascular risk population: the ILERVAS study. *Revista Espanola De Cardiologia (English Ed)*, **2021**, 74, 1042-1053	0.7	4
242	Clinical Usefulness of Anthropometric Indices to Predict the Presence of Prediabetes. Data from the ILERVAS Cohort. *Nutrients*, **2021**, 13,	6.7	2
241	The Causal Role of Lipoxidative Damage in Mitochondrial Bioenergetic Dysfunction Linked to Alzheimer's Disease Pathology. *Life*, **2021**, 11,	3	3
240	Subjects with detectable Saccharomyces cerevisiae in the gut microbiota show deficits in attention and executive function. *Journal of Internal Medicine*, **2021**, 290, 740-743	10.8	0
239	New insights into human prefrontal cortex aging with a lipidomics approach. *Expert Review of Proteomics*, **2021**, 18, 333-344	4.2	3
238	Nuclear lipidome is altered in amyotrophic lateral sclerosis: A pilot study. *Journal of Neurochemistry* , **2021**, 158, 482-499	6	2
237	mTORC1 is also involved in longevity between species. *Aging*, **2021**, 13, 14544-14545	5.6	0
236	Up-Regulation of Specific Bioactive Lipids in Celiac Disease. *Nutrients*, **2021**, 13,	6.7	1
235	Plasma methionine metabolic profile is associated with longevity in mammals. *Communications Biology*, **2021**, 4, 725	6.7	2
234	Modulation of mitochondrial and inflammatory homeostasis through RIP140 is neuroprotective in an adrenoleukodystrophy mouse model. *Neuropathology and Applied Neurobiology*, **2021**,	5.2	2
233	Dysregulated protein phosphorylation: A determining condition in the continuum of brain aging and Alzheimer's disease. *Brain Pathology*, **2021**, 31, e12996	6	4

232	Decrease in sleep depth is associated with higher cerebrospinal fluid neurofilament light levels in patients with Alzheimer's disease. *Sleep*, **2021**, 44,	1.1	3
231	Methionine transsulfuration pathway is upregulated in long-lived humans. *Free Radical Biology and Medicine*, **2021**, 162, 38-52	7.8	3
230	Lipid alterations in human frontal cortex in ALS-FTLD-TDP43 proteinopathy spectrum are partly related to peroxisome impairment. *Neuropathology and Applied Neurobiology*, **2021**, 47, 544-563	5.2	7
229	Whole-Brain Dynamics in Aging: Disruptions in Functional Connectivity and the Role of the Rich Club. *Cerebral Cortex*, **2021**, 31, 2466-2481	5.1	3
228	Lipoxidation: features, neurological tissues, and aging **2021**, 83-96		0
227	Lipidomic traits of plasma and cerebrospinal fluid in amyotrophic lateral sclerosis correlate with disease progression. *Brain Communications*, **2021**, 3, fcab143	4.5	7
226	Is the NDUFV2 subunit of the hydrophilic complex I domain a key determinant of animal longevity?. *FEBS Journal*, **2021**, 288, 6652-6673	5.7	3
225	Prevalence of Obstructive Sleep Apnoea and Its Association With Atherosclerotic Plaques in a Cohort of Subjects With Mild-Moderate Cardiovascular Risk. *Archivos De Bronconeumologia*, **2021**,	0.7	2
224	Cell Stress Induces Mislocalization of Transcription Factors with Mitochondrial Enrichment. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	1
223	Obesity-associated deficits in inhibitory control are phenocopied to mice through gut microbiota changes in one-carbon and aromatic amino acids metabolic pathways. *Gut*, **2021**, 70, 2283-2296	19.2	7
222	Long-lived humans have a unique plasma sphingolipidome. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2021**,	6.4	2
221	Prevalence and Predictors of Cerebral Microangiopathy Determined by Pulsatility Index in an Asymptomatic Population From the ILERVAS Project.. *Frontiers in Neurology*, **2021**, 12, 785640	4.1	1
220	Alterations in One-Carbon Metabolism in Celiac Disease. *Nutrients*, **2020**, 12,	6.7	2
219	The Aging Imageomics Study: rationale, design and baseline characteristics of the study population. *Mechanisms of Ageing and Development*, **2020**, 189, 111257	5.6	6
218	Succination of Protein Thiols in Human Brain Aging. *Frontiers in Aging Neuroscience*, **2020**, 12, 52	5.3	2
217	Gene expression and regulatory factors of the mechanistic target of rapamycin (mTOR) complex 1 predict mammalian longevity. *GeroScience*, **2020**, 42, 1157-1173	8.9	3
216	Are Obesity Indices Useful for Detecting Subclinical Atheromatosis in a Middle-Aged Population?. *Obesity Facts*, **2020**, 13, 29-39	5.1	4
215	Low abundance of NDUFV2 and NDUFS4 subunits of the hydrophilic complex I domain and VDAC1 predicts mammalian longevity. *Redox Biology*, **2020**, 34, 101539	11.3	11

214	Molecular phenomics of a high-calorie diet-induced porcine model of prepubertal obesity. *Journal of Nutritional Biochemistry*, **2020**, 83, 108393	6.3	2
213	Localizaci n y carga de ateromatosis subcl nica en poblaci n con un riesgo cardiovascular bajo-moderado: estudio ILERVAS. *Revista Espanola De Cardiologia*, **2020**, 74, 1043-1043	1.5	2
212	Lipidomic profiling identifies signatures of metabolic risk. *EBioMedicine*, **2020**, 51, 102520	8.8	27
211	Gender-Specific Beneficial Effects of Docosahexaenoic Acid Dietary Supplementation in G93A-SOD1 Amyotrophic Lateral Sclerosis Mice. *Neurotherapeutics*, **2020**, 17, 269-281	6.4	6
210	Metabolic adaptations in spontaneously immortalized PGC-1 knock-out mouse embryonic fibroblasts increase their oncogenic potential. *Redox Biology*, **2020**, 29, 101396	11.3	3
209	The Lipidome Fingerprint of Longevity. *Molecules*, **2020**, 25,	4.8	9
208	Obesity Impairs Short-Term and Working Memory through Gut Microbial Metabolism of Aromatic Amino Acids. *Cell Metabolism*, **2020**, 32, 548-560.e7	24.6	27
207	Confirmation of the Cardioprotective Effect of MitoGamide in the Diabetic Heart. *Cardiovascular Drugs and Therapy*, **2020**, 34, 823-834	3.9	5
206	The Advanced Lipoxidation End-Product Malondialdehyde-Lysine in Aging and Longevity. *Antioxidants*, **2020**, 9,	7.1	15
205	Protein succination as a potential surrogate biomarker of airway obstruction. The ilervas project. *Respiratory Medicine*, **2020**, 172, 106124	4.6	1
204	Mediterranean diet, physical activity and subcutaneous advanced glycation end-products' accumulation: a cross-sectional analysis in the ILERVAS project. *European Journal of Nutrition*, **2020**, 59, 1233-1242	5.2	7
203	Selected cryptic exons accumulate in hippocampal cell nuclei in Alzheimer's disease with and without associated TDP-43 proteinopathy. *Brain*, **2020**, 143, e20	11.2	3
202	Manipulating mtDNA in vivo reprograms metabolism via novel response mechanisms. *PLoS Genetics* , **2019**, 15, e1008410	6	2
201	A prospective pilot study using metabolomics discloses specific fatty acid, catecholamine and tryptophan metabolic pathways as possible predictors for a negative outcome after severe trauma. *Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine*, **2019**, 27, 56	3.6	7
200	Biomarker Identification, Safety, and Efficacy of High-Dose Antioxidants for Adrenomyeloneuropathy: a Phase II Pilot Study. *Neurotherapeutics*, **2019**, 16, 1167-1182	6.4	19
199	Skin Autofluorescence Measurement in Subclinical Atheromatous Disease: Results from the ILERVAS Project. *Journal of Atherosclerosis and Thrombosis*, **2019**, 26, 879-889	4	2
198	Deficient Endoplasmic Reticulum-Mitochondrial Phosphatidylserine Transfer Causes Liver Disease. *Cell*, **2019**, 177, 881-895.e17	56.2	109
197	Lung function measurements in the prediabetes stage: data from the ILERVAS Project. *Acta Diabetologica*, **2019**, 56, 1005-1012	3.9	5

196	Redox lipidomics to better understand brain aging and function. *Free Radical Biology and Medicine*, **2019**, 144, 310-321	7.8	14
195	Effects of Mediterranean Diet and Physical Activity on Pulmonary Function: A Cross-Sectional Analysis in the ILERVAS Project. *Nutrients*, **2019**, 11,	6.7	16
194	Essential Physiological Differences Characterize Short- and Long-Lived Strains of Drosophila melanogaster. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2019**, 74, 1835-1843	6.4	6
193	Lipid profile of cerebrospinal fluid in multiple sclerosis patients: a potential tool for diagnosis. *Scientific Reports*, **2019**, 9, 11313	4.9	21
192	Dissimilar Impact of a Mediterranean Diet and Physical Activity on Anthropometric Indices: A Cross-Sectional Study from the ILERVAS Project. *Nutrients*, **2019**, 11,	6.7	4
191	Impairment of Mitochondrial Redox Status in Peripheral Lymphocytes of Multiple Sclerosis Patients. *Frontiers in Neuroscience*, **2019**, 13, 938	5.1	14
190	Metformin induces lipid changes on sphingolipid species and oxidized lipids in polycystic ovary syndrome women. *Scientific Reports*, **2019**, 9, 16033	4.9	13
189	Characteristics of atheromatosis in the prediabetes stage: a cross-sectional investigation of the ILERVAS project. *Cardiovascular Diabetology*, **2019**, 18, 154	8.7	7
188	Exceptional human longevity is associated with a specific plasma phenotype of ether lipids. *Redox Biology*, **2019**, 21, 101127	11.3	32
187	Effects of Aging and Methionine Restriction on Rat Kidney Metabolome. *Metabolites*, **2019**, 9,	5.6	9
186	Lipids and lipoxidation in human brain aging. Mitochondrial ATP-synthase as a key lipoxidation target. *Redox Biology*, **2019**, 23, 101082	11.3	23
185	The cirrhotic liver is depleted of docosahexaenoic acid (DHA), a key modulator of NF-B and TGF pathways in hepatic stellate cells. *Cell Death and Disease*, **2019**, 10, 14	9.8	19
184	Subcutaneous advanced glycation end-products and lung function according to glucose abnormalities: The ILERVAS Project. *Diabetes and Metabolism*, **2019**, 45, 595-598	5.4	8
183	Lipid Profile in Human Frontal Cortex Is Sustained Throughout Healthy Adult Life Span to Decay at Advanced Ages. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2018**, 73, 703-710	6.4	8
182	Regional vulnerability to lipoxidative damage and inflammation in normal human brain aging. *Experimental Gerontology*, **2018**, 111, 218-228	4.5	15
181	Aberrant regulation of the GSK-3NRF2 axis unveils a novel therapy for adrenoleukodystrophy. *EMBO Molecular Medicine*, **2018**, 10,	12	26
180	Cryptic exon splicing function of TARDBP interacts with autophagy in nervous tissue. *Autophagy*, **2018**, 14, 1398-1403	10.2	21
179	Lipidomics reveals altered biosynthetic pathways of glycerophospholipids and cell signaling as biomarkers of the polycystic ovary syndrome. *Oncotarget*, **2018**, 9, 4522-4536	3.3	16

178	Location-dependent effects of trauma on oxidative stress in humans. *PLoS ONE*, **2018**, 13, e0205519	3.7	1
177	Lipidomics Reveals a Tissue-Specific Fingerprint. *Frontiers in Physiology*, **2018**, 9, 1165	4.6	45
176	A Stress-Resistant Lipidomic Signature Confers Extreme Longevity to Humans. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2017**, 72, 30-37	6.4	38
175	Region-specific vulnerability to lipid peroxidation and evidence of neuronal mechanisms for polyunsaturated fatty acid biosynthesis in the healthy adult human central nervous system. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2017**, 1862, 485-495	5	26
174	Adipocyte lipopolysaccharide binding protein (LBP) is linked to a specific lipidomic signature. *Obesity*, **2017**, 25, 391-400	8	6
173	Sixty years old is the breakpoint of human frontal cortex aging. *Free Radical Biology and Medicine*, **2017**, 103, 14-22	7.8	24
172	Loss of SIRT2 leads to axonal degeneration and locomotor disability associated with redox and energy imbalance. *Aging Cell*, **2017**, 16, 1404-1413	9.9	27
171	A plasma metabolomic signature discloses human breast cancer. *Oncotarget*, **2017**, 8, 19522-19533	3.3	44
170	Differential metabolic profiles associated to movement behaviour of stream-resident brown trout (Salmo trutta). *PLoS ONE*, **2017**, 12, e0181697	3.7	1
169	Tumour-microenvironmental blood flow determines a metabolomic signature identifying lysophospholipids and resolvin D as biomarkers in endometrial cancer patients. *Oncotarget*, **2017**, 8, 109018-109026	3.3	10
168	Nontargeted Brain Lipidomic Profiling Performed by UPLC-ESI-qToF-MS/MS. *Neuromethods*, **2017**, 75-90	0.4	
167	Human Aging Is a Metabolome-related Matter of Gender. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2016**, 71, 578-85	6.4	43
166	Early and gender-specific differences in spinal cord mitochondrial function and oxidative stress markers in a mouse model of ALS. *Acta Neuropathologica Communications*, **2016**, 4, 3	7.3	23
165	Oral intake of genetically engineered high-carotenoid corn ameliorates hepatomegaly and hepatic steatosis in PTEN haploinsufficient mice. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2016**, 1862, 526-535	6.9	5
164	Interplay between TDP-43 and docosahexaenoic acid-related processes in amyotrophic lateral sclerosis. *Neurobiology of Disease*, **2016**, 88, 148-60	7.5	17
163	Metabolomics uncovers the role of adipose tissue PDXK in adipogenesis and systemic insulin sensitivity. *Diabetologia*, **2016**, 59, 822-32	10.3	15
162	Redox proteomic profiling of neuroketal-adducted proteins in human brain: Regional vulnerability at middle age increases in the elderly. *Free Radical Biology and Medicine*, **2016**, 95, 1-15	7.8	21
161	Metabotyping human endometrioid endometrial adenocarcinoma reveals an implication of endocannabinoid metabolism. *Oncotarget*, **2016**, 7, 52364-52374	3.3	12

160	Specific Metabolomics Adaptations Define a Differential Regional Vulnerability in the Adult Human Cerebral Cortex. *Frontiers in Molecular Neuroscience*, **2016**, 9, 138	6.1	14
159	Metabolomics Predicts Neuroimaging Characteristics of Transient Ischemic Attack Patients. *EBioMedicine*, **2016**, 14, 131-138	8.8	15
158	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. *Experimental Gerontology*, **2016**, 83, 130-8	4.5	60
157	Cysteine dietary supplementation reverses the decrease in mitochondrial ROS production at complex I induced by methionine restriction. *Journal of Bioenergetics and Biomembranes*, **2015**, 47, 199-208	2.7	32
156	Lipidomics of human brain aging and Alzheimer's disease pathology. *International Review of Neurobiology*, **2015**, 122, 133-89	4.4	86
155	Neuroinflammatory signals in Alzheimer disease and APP/PS1 transgenic mice: correlations with plaques, tangles, and oligomeric species. *Journal of Neuropathology and Experimental Neurology*, **2015**, 74, 319-44	3.1	86
154	Activation of sirtuin 1 as therapy for the peroxisomal disease adrenoleukodystrophy. *Cell Death and Differentiation*, **2015**, 22, 1742-53	12.7	23
153	Target of rapamycin activation predicts lifespan in fruit flies. *Cell Cycle*, **2015**, 14, 2949-58	4.7	18
152	Voltage-gated calcium channel blockers deregulate macroautophagy in cardiomyocytes. *International Journal of Biochemistry and Cell Biology*, **2015**, 68, 166-75	5.6	15
151	Nutridynamics: mechanism(s) of action of bioactive compounds and their effects. *International Journal of Food Sciences and Nutrition*, **2015**, 66 Suppl 1, S22-30	3.7	14
150	Altered glycolipid and glycerophospholipid signaling drive inflammatory cascades in adrenomyeloneuropathy. *Human Molecular Genetics*, **2015**, 24, 6861-76	5.6	25
149	Metabolomics predicts stroke recurrence after transient ischemic attack. *Neurology*, **2015**, 84, 36-45	6.5	69
148	Deregulation of purine metabolism in Alzheimer's disease. *Neurobiology of Aging*, **2015**, 36, 68-80	5.6	78
147	Obesity changes the human gut mycobiome. *Scientific Reports*, **2015**, 5, 14600	4.9	130
146	Long lifespans have evolved with long and monounsaturated fatty acids in birds. *Evolution; International Journal of Organic Evolution*, **2015**, 69, 2776-84	3.8	16
145	The Antioxidant Effect of LMN Diet, Rich in Polyphenols and Polyunsaturated Fatty Acids, in Alzheimer's Disease **2015**, 847-857		1
144	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. *Journal of Neuropathology and Experimental Neurology*, **2015**, 74, 975-99	3.1	41
143	Muscle mitohormesis promotes cellular survival via serine/glycine pathway flux. *FASEB Journal*, **2015**, 29, 1314-28	0.9	47

142	Hydroxytyrosol ameliorates oxidative stress and mitochondrial dysfunction in doxorubicin-induced cardiotoxicity in rats with breast cancer. *Biochemical Pharmacology*, **2014**, 90, 25-33	6	104
141	Independent and additive effects of atenolol and methionine restriction on lowering rat heart mitochondria oxidative stress. *Journal of Bioenergetics and Biomembranes*, **2014**, 46, 159-72	3.7	7
140	Dietary lipid unsaturation influences survival and oxidative modifications of an amyotrophic lateral sclerosis model in a gender-specific manner. *NeuroMolecular Medicine*, **2014**, 16, 669-85	4.6	10
139	Plasma antioxidant capacity in critical polytraumatized patients?: methods, severity, and anatomic location. *Critical Care*, **2014**, 18, 434	10.8	1
138	Human omental and subcutaneous adipose tissue exhibit specific lipidomic signatures. *FASEB Journal*, **2014**, 28, 1071-81	0.9	38
137	Plasma lipidomics discloses metabolic syndrome with a specific HDL phenotype. *FASEB Journal*, **2014**, 28, 5163-71	0.9	34
136	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. *Aging Cell*, **2014**, 13, 551-60	9.9	17
135	Caloric restriction reveals a metabolomic and lipidomic signature in liver of male mice. *Aging Cell*, **2014**, 13, 828-37	9.9	52
134	Metabolomics of human brain aging and age-related neurodegenerative diseases. *Journal of Neuropathology and Experimental Neurology*, **2014**, 73, 640-57	3.1	131
133	Exceptionally old mice are highly resistant to lipoxidation-derived molecular damage. *Age*, **2013**, 35, 621-35		15
132	Vitamin D receptor BsmI polymorphism modulates soy intake and 25-hydroxyvitamin D supplementation benefits in cardiovascular disease risk factors profile. *Genes and Nutrition*, **2013**, 8, 561-9	4.3	10
131	Plasma long-chain free fatty acids predict mammalian longevity. *Scientific Reports*, **2013**, 3, 3346	4.9	39
130	Lipidomic and metabolomic analyses reveal potential plasma biomarkers of early atheromatous plaque formation in hamsters. *Cardiovascular Research*, **2013**, 97, 642-52	9.9	48
129	Skeletal muscle uncoupling-induced longevity in mice is linked to increased substrate metabolism and induction of the endogenous antioxidant defense system. *American Journal of Physiology - Endocrinology and Metabolism*, **2013**, 304, E495-506	6	34
128	Tetradecylthioacetic acid attenuates inflammation and has antioxidative potential during experimental colitis in rats. *Digestive Diseases and Sciences*, **2013**, 58, 97-106	4	10
127	Impaired mitochondrial oxidative phosphorylation in the peroxisomal disease X-linked adrenoleukodystrophy. *Human Molecular Genetics*, **2013**, 22, 3296-305	5.6	83
126	Atherosclerosis prevention by nutritional factors: a meta-analysis in small animal models. *Nutrition, Metabolism and Cardiovascular Diseases*, **2013**, 23, 84-93	4.5	8
125	Dietary intake of green tea polyphenols regulates insulin sensitivity with an increase in AMP-activated protein kinase content and changes in mitochondrial respiratory complexes. *Molecular Nutrition and Food Research*, **2013**, 57, 459-70	5.9	20

124	Specific lipidome signatures in central nervous system from methionine-restricted mice. *Journal of Proteome Research*, **2013**, 12, 2679-89	5.6	23
123	Formation of S-(carboxymethyl)-cysteine in rat liver mitochondrial proteins: effects of caloric and methionine restriction. *Amino Acids*, **2013**, 44, 361-71	3.5	19
122	Pioglitazone halts axonal degeneration in a mouse model of X-linked adrenoleukodystrophy. *Brain*, **2013**, 136, 2432-43	11.2	57
121	Membrane lipid unsaturation as physiological adaptation to animal longevity. *Frontiers in Physiology* , **2013**, 4, 372	4.6	60
120	Non-enzymatic modification of aminophospholipids by carbonyl-amine reactions. *International Journal of Molecular Sciences*, **2013**, 14, 3285-313	6.3	28
119	A salmon peptide diet alleviates experimental colitis as compared with fish oil. *Journal of Nutritional Science*, **2013**, 2, e2	2.7	13
118	T-type calcium channel blockers inhibit autophagy and promote apoptosis of malignant melanoma cells. *Pigment Cell and Melanoma Research*, **2013**, 26, 874-85	4.5	46
117	Amyloid generation and dysfunctional immunoproteasome activation with disease progression in animal model of familial Alzheimer's disease. *Brain Pathology*, **2012**, 22, 636-53	6	71
116	Functional expression of voltage-gated calcium channels in human melanoma. *Pigment Cell and Melanoma Research*, **2012**, 25, 200-12	4.5	37
115	Oxidative stress underlying axonal degeneration in adrenoleukodystrophy: a paradigm for multifactorial neurodegenerative diseases?. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2012**, 1822, 1475-88	6.9	71
114	Lipidome analysis in multiple sclerosis reveals protein lipoxidative damage as a potential pathogenic mechanism. *Journal of Neurochemistry*, **2012**, 123, 622-34	6	59
113	Effects of aging and methionine restriction applied at old age on ROS generation and oxidative damage in rat liver mitochondria. *Biogerontology*, **2012**, 13, 399-411	4.5	51
112	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. *Journal of Nutritional Biochemistry*, **2012**, 23, 1384-93	6.3	25
111	dj-1 regulates oxidative stress, insulin-like signaling and development in Drosophila melanogaster. *Cell Cycle*, **2012**, 11, 3876-86	4.7	21
110	Plant-derived phenolics inhibit the accrual of structurally characterised protein and lipid oxidative modifications. *PLoS ONE*, **2012**, 7, e43308	3.7	10
109	Dietary supplementation of krill oil attenuates inflammation and oxidative stress in experimental ulcerative colitis in rats. *Scandinavian Journal of Gastroenterology*, **2012**, 47, 49-58	2.4	50
108	Cellular dysfunction in diabetes as maladaptive response to mitochondrial oxidative stress. *Experimental Diabetes Research*, **2012**, 2012, 696215		79
107	Multicompartmental LC-Q-TOF-based metabonomics as an exploratory tool to identify novel pathways affected by polyphenol-rich diets in mice. *Journal of Proteome Research*, **2011**, 10, 3501-12	5.6	38

106	Prefrontal cortex, caloric restriction and stress during aging: studies on dopamine and acetylcholine release, BDNF and working memory. *Behavioural Brain Research*, **2011**, 216, 136-45	3.4	42
105	Mitochondrial dysfunction and oxidative and endoplasmic reticulum stress in argyrophilic grain disease. *Journal of Neuropathology and Experimental Neurology*, **2011**, 70, 253-63	3.1	16
104	Age-related changes in brain mitochondrial DNA deletion and oxidative stress are differentially modulated by dietary fat type and coenzyme Q *Free Radical Biology and Medicine*, **2011**, 50, 1053-64	7.8	75
103	Advanced lipoxidation end-products. *Chemico-Biological Interactions*, **2011**, 192, 14-20	5	115
102	Molecular and structural antioxidant defenses against oxidative stress in animals. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2011**, 301, R843-63	3.2	196
101	Forty percent methionine restriction lowers DNA methylation, complex I ROS generation, and oxidative damage to mtDNA and mitochondrial proteins in rat heart. *Journal of Bioenergetics and Biomembranes*, **2011**, 43, 699-708	3.7	70
100	Cell stress induces TDP-43 pathological changes associated with ERK1/2 dysfunction: implications in ALS. *Acta Neuropathologica*, **2011**, 122, 259-70	14.3	74
99	An evolutionary comparative scan for longevity-related oxidative stress resistance mechanisms in homeotherms. *Biogerontology*, **2011**, 12, 409-35	4.5	49
98	Antioxidants halt axonal degeneration in a mouse model of X-adrenoleukodystrophy. *Annals of Neurology*, **2011**, 70, 84-92	9.4	107
97	Stanozolol treatment decreases the mitochondrial ROS generation and oxidative stress induced by acute exercise in rat skeletal muscle. *Journal of Applied Physiology*, **2011**, 110, 661-9	3.7	28
96	Regulation of Membrane Unsaturation as Antioxidant Adaptive Mechanism in Long-lived Animal Species. *Free Radicals and Antioxidants*, **2011**, 1, 3-12	1.7	9
95	Oxidative damage compromises energy metabolism in the axonal degeneration mouse model of X-adrenoleukodystrophy. *Antioxidants and Redox Signaling*, **2011**, 15, 2095-107	8.4	68
94	Mitochondrial DNA damage and animal longevity: insights from comparative studies. *Journal of Aging Research*, **2011**, 2011, 807108	2.3	20
93	Mitochondria and aging. *Journal of Aging Research*, **2011**, 2011, 782946	2.3	4
92	Biomarkers of aging in Drosophila. *Aging Cell*, **2010**, 9, 466-477	9.9	63
91	Mitochondrial ATP-synthase in the entorhinal cortex is a target of oxidative stress at stages I/II of Alzheimer's disease pathology. *Brain Pathology*, **2010**, 20, 222-33	6	104
90	Protein targets of oxidative damage in human neurodegenerative diseases with abnormal protein aggregates. *Brain Pathology*, **2010**, 20, 281-97	6	161
89	Mitochondrial DNA mutations induce mitochondrial dysfunction, apoptosis and sarcopenia in skeletal muscle of mitochondrial DNA mutator mice. *PLoS ONE*, **2010**, 5, e11468	3.7	196

88	Valproic acid induces antioxidant effects in X-linked adrenoleukodystrophy. *Human Molecular Genetics*, **2010**, 19, 2005-14	5.6	77
87	The Eblocker 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. *Rejuvenation Research*, **2010**, 13, 683-93	2.6	10
86	Expression of the yeast NADH dehydrogenase Ndi1 in Drosophila confers increased lifespan independently of dietary restriction. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 9105-10	11.5	100
85	Modification of brain lipids but not phenotype in alpha-synucleinopathy transgenic mice by long-term dietary n-3 fatty acids. *Neurochemistry International*, **2010**, 56, 318-28	4.4	15
84	When cholesterol is not cholesterol: a note on the enzymatic determination of its concentration in model systems containing vegetable extracts. *Lipids in Health and Disease*, **2010**, 9, 65	4.4	1
83	Effects of increased iron intake during the neonatal period on the brain of adult AbetaPP/PS1 transgenic mice. *Journal of Alzheimerjs Disease*, **2010**, 19, 1069-80	4.3	15
82	Pathological aspects of lipid peroxidation. *Free Radical Research*, **2010**, 44, 1125-71	4	288
81	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. *Mechanisms of Ageing and Development*, **2010**, 131, 38-47	5.6	42
80	Depletion of oxidative and endoplasmic reticulum stress regulators in Pick disease. *Free Radical Biology and Medicine*, **2010**, 48, 1302-10	7.8	11
79	Hyperglycemia and glycation in diabetic complications. *Antioxidants and Redox Signaling*, **2009**, 11, 3071-109	8.4	264
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