Kelvin J A Davies

List of Publications by Citations

202 papers	25,567 citations	83 h-index	159 g-index
221 ext. papers	27,676 ext. citations	6 avg, IF	7.41 L-index

#	Paper	IF	Citations
202	Mitochondrial free radical generation, oxidative stress, and aging. *Free Radical Biology and Medicine* , **2000**, 29, 222-30	7.8	2175
201	Free radicals and tissue damage produced by exercise. *Biochemical and Biophysical Research Communications*, **1982**, 107, 1198-205	3.4	1326
200	Measuring reactive oxygen and nitrogen species with fluorescent probes: challenges and limitations. *Free Radical Biology and Medicine*, **2012**, 52, 1-6	7.8	1180
199	Degradation of oxidized proteins by the 20S proteasome. *Biochimie*, **2001**, 83, 301-10	4.6	730
198	Degradation of oxidized proteins in mammalian cells. *FASEB Journal*, **1997**, 11, 526-534	0.9	718
197	Oxidative stress: the paradox of aerobic life. *Biochemical Society Symposia*, **1995**, 61, 1-31		671
196	Calcium and oxidative stress: from cell signaling to cell death. *Molecular Immunology*, **2002**, 38, 713-21	4.3	608
195	Oxidative Stress, Antioxidant Defenses, and Damage Removal, Repair, and Replacement Systems. *IUBMB Life*, **2000**, 50, 279-289	4.7	558
194	Decreased proteolysis caused by protein aggregates, inclusion bodies, plaques, lipofuscin, ceroid, and 'aggresomes' during oxidative stress, aging, and disease. *International Journal of Biochemistry and Cell Biology*, **2004**, 36, 2519-30	5.6	510
193	Lon protease preferentially degrades oxidized mitochondrial aconitase by an ATP-stimulated mechanism. *Nature Cell Biology*, **2002**, 4, 674-80	23.4	454
192	Oxidative stress response and Nrf2 signaling in aging. *Free Radical Biology and Medicine*, **2015**, 88, 314-336	7.8	440
191	How do nutritional antioxidants really work: nucleophilic tone and para-hormesis versus free radical scavenging in vivo. *Free Radical Biology and Medicine*, **2014**, 66, 24-35	7.8	426
190	Selective degradation of oxidatively modified protein substrates by the proteasome. *Biochemical and Biophysical Research Communications*, **2003**, 305, 709-18	3.4	397
189	Comparative resistance of the 20S and 26S proteasome to oxidative stress. *Biochemical Journal*, **1998**, 335 (Pt 3), 637-42	3.8	387
188	Biochemical adaptation of mitochondria, muscle, and whole-animal respiration to endurance training. *Archives of Biochemistry and Biophysics*, **1981**, 209, 539-54	4.1	358
187	Protein, lipid and DNA repair systems in oxidative stress: the free-radical theory of aging revisited. *Gerontology*, **1991**, 37, 166-80	5.5	345
186	Proteolysis in cultured liver epithelial cells during oxidative stress. Role of the multicatalytic proteinase complex, proteasome. *Journal of Biological Chemistry*, **1995**, 270, 2344-51	5.4	342

185	Ubiquitin conjugation is not required for the degradation of oxidized proteins by proteasome. *Journal of Biological Chemistry*, **2003**, 278, 311-8	5.4	333
184	The broad spectrum of responses to oxidants in proliferating cells: a new paradigm for oxidative stress. *IUBMB Life*, **1999**, 48, 41-7	4.7	330
183	Free radical biology and medicine: it's a gas, man!. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2006**, 291, R491-511	3.2	322
182	The Broad Spectrum of Responses to Oxidants in Proliferating Cells: A New Paradigm for Oxidative Stress. *IUBMB Life*, **1999**, 48, 41-47	4.7	301
181	The Mitochondrial Lon Protease Is Required for Age-Specific and Sex-Specific Adaptation to Oxidative Stress. *Current Biology*, **2017**, 27, 1-15	6.3	290
180	HSP70 and other possible heat shock or oxidative stress proteins are induced in skeletal muscle, heart, and liver during exercise. *Free Radical Biology and Medicine*, **1991**, 11, 239-46	7.8	277
179	Degradation of oxidized proteins in K562 human hematopoietic cells by proteasome. *Journal of Biological Chemistry*, **1996**, 271, 15504-9	5.4	269
178	Proteasome inhibition by lipofuscin/ceroid during postmitotic aging of fibroblasts. *FASEB Journal*, **2000**, 14, 1490-1498	0.9	261
177	The immunoproteasome, the 20S proteasome and the PA28 proteasome regulator are oxidative-stress-adaptive proteolytic complexes. *Biochemical Journal*, **2010**, 432, 585-94	3.8	232
176	Intracellular proteolytic systems may function as secondary antioxidant defenses: an hypothesis. *Journal of Free Radicals in Biology & Medicine*, **1986**, 2, 155-73		230
175	Oxidative stress, antioxidant defenses, and damage removal, repair, and replacement systems. *IUBMB Life*, **2000**, 50, 279-89	4.7	217
174	Nrf2-dependent induction of proteasome and Pa28 regulator are required for adaptation to oxidative stress. *Journal of Biological Chemistry*, **2012**, 287, 10021-10031	5.4	212
173	Proteasome inhibition by lipofuscin/ceroid during postmitotic aging of fibroblasts. *FASEB Journal*, **2000**, 14, 1490-8	0.9	209
172	Peroxynitrite increases the degradation of aconitase and other cellular proteins by proteasome. *Journal of Biological Chemistry*, **1998**, 273, 10857-62	5.4	208
171	Mitochondrial fission and cristae disruption increase the response of cell models of Huntington's disease to apoptotic stimuli. *EMBO Molecular Medicine*, **2010**, 2, 490-503	12	201
170	Production, detection, and adaptive responses to free radicals in exercise. *Free Radical Biology and Medicine*, **2008**, 44, 215-23	7.8	193
169	Even free radicals should follow some rules: a guide to free radical research terminology and methodology. *Free Radical Biology and Medicine*, **2015**, 78, 233-5	7.8	191
168	Modulation of Lon protease activity and aconitase turnover during aging and oxidative stress. *FEBS Letters*, **2002**, 532, 103-6	3.8	190

167	Protein turnover by the proteasome in aging and disease. *Free Radical Biology and Medicine*, **2002**, 32, 1084-9	7.8	189
166	Protein oxidation and degradation during cellular senescence of human BJ fibroblasts: part I--effects of proliferative senescence. *FASEB Journal*, **2000**, 14, 2495-502	0.9	188
165	Protein degradation as an index of oxidative stress. *Methods in Enzymology*, **1990**, 186, 485-502	1.7	177
164	Downregulation of the human Lon protease impairs mitochondrial structure and function and causes cell death. *Free Radical Biology and Medicine*, **2005**, 38, 665-77	7.8	176
163	Formation and repair of oxidatively generated damage in cellular DNA. *Free Radical Biology and Medicine*, **2017**, 107, 13-34	7.8	171
162	Chronic overexpression of the calcineurin inhibitory gene DSCR1 (Adapt78) is associated with Alzheimer's disease. *Journal of Biological Chemistry*, **2001**, 276, 38787-94	5.4	171
161	The proteasomal system and HNE-modified proteins. *Molecular Aspects of Medicine*, **2003**, 24, 195-204	16.7	170
160	Protein oxidation and loss of protease activity may lead to cataract formation in the aged lens. *Free Radical Biology and Medicine*, **1987**, 3, 371-7	7.8	163
159	Protein oxidation and 20S proteasome-dependent proteolysis in mammalian cells. *Cellular and Molecular Life Sciences*, **2001**, 58, 1442-50	10.3	162
158	HSP70 mediates dissociation and reassociation of the 26S proteasome during adaptation to oxidative stress. *Free Radical Biology and Medicine*, **2011**, 51, 1355-64	7.8	158
157	Oxidative DNA damage & repair: An introduction. *Free Radical Biology and Medicine*, **2017**, 107, 2-12	7.8	153
156	Macroxyproteinase (M.O.P.): a 670 kDa proteinase complex that degrades oxidatively denatured proteins in red blood cells. *Free Radical Biology and Medicine*, **1989**, 7, 521-36	7.8	152
155	Adaptive homeostasis. *Molecular Aspects of Medicine*, **2016**, 49, 1-7	16.7	151
154	What is the concentration of hydrogen peroxide in blood and plasma?. *Archives of Biochemistry and Biophysics*, **2016**, 603, 48-53	4.1	150
153	Free radical biology - terminology and critical thinking. *FEBS Letters*, **2004**, 558, 3-6	3.8	143
152	Renaming the DSCR1/Adapt78 gene family as RCAN: regulators of calcineurin. *FASEB Journal*, **2007**, 21, 3023-8	0.9	138
151	Protein oxidation and degradation during cellular senescence of human BJ fibroblasts: part II--aging of nondividing cells. *FASEB Journal*, **2000**, 14, 2503-10	0.9	138
150	Phosphorylation inhibits turnover of the tau protein by the proteasome: influence of RCAN1 and oxidative stress. *Biochemical Journal*, **2006**, 400, 511-20	3.8	137

149	Membrane effects of vitamin E deficiency: bioenergetic and surface charge density studies of skeletal muscle and liver mitochondria. *Annals of the New York Academy of Sciences*, **1982**, 393, 32-47	6.5	131
148	Dityrosine: a marker for oxidatively modified proteins and selective proteolysis. *Methods in Enzymology*, **1994**, 233, 363-71	1.7	124
147	Degradation of oxidized proteins by the proteasome: Distinguishing between the 20S, 26S, and immunoproteasome proteolytic pathways. *Molecular Aspects of Medicine*, **2016**, 50, 41-55	16.7	124
146	Hamster adapt78 mRNA is a Down syndrome critical region homologue that is inducible by oxidative stress. *Archives of Biochemistry and Biophysics*, **1997**, 342, 6-12	4.1	121
145	Nrf2-regulated phase II enzymes are induced by chronic ambient nanoparticle exposure in young mice with age-related impairments. *Free Radical Biology and Medicine*, **2012**, 52, 2038-46	7.8	117
144	Protein modification by oxidants and the role of proteolytic enzymes. *Biochemical Society Transactions*, **1993**, 21, 346-53	5.1	116
143	Degradation of damaged proteins: the main function of the 20S proteasome. *Progress in Molecular Biology and Translational Science*, **2012**, 109, 227-48	4	115
142	Oxidized and ubiquitinated proteins may predict recovery of postischemic cardiac function: essential role of the proteasome. *Antioxidants and Redox Signaling*, **2005**, 7, 538-46	8.4	113
141	The DSCR1 (Adapt78) isoform 1 protein calcipressin 1 inhibits calcineurin and protects against acute calcium-mediated stress damage, including transient oxidative stress. *FASEB Journal*, **2002**, 16, 814-24	0.9	109
140	Mitochondrial NADH dehydrogenase-catalyzed oxygen radical production by adriamycin, and the relative inactivity of 5-iminodaunorubicin. *FEBS Letters*, **1983**, 153, 227-30	3.8	107
139	Regulatory mechanisms controlling expression of the DAN/TIR mannoprotein genes during anaerobic remodeling of the cell wall in Saccharomyces cerevisiae. *Genetics*, **2001**, 157, 1169-77	4	107
138	Upregulation of the mitochondrial Lon Protease allows adaptation to acute oxidative stress but dysregulation is associated with chronic stress, disease, and aging. *Redox Biology*, **2013**, 1, 258-64	11.3	106
137	Differential roles of proteasome and immunoproteasome regulators Pa28Pa28and Pa200 in the degradation of oxidized proteins. *Archives of Biochemistry and Biophysics*, **2012**, 523, 181-90	4.1	102
136	Age-associated declines in mitochondrial biogenesis and protein quality control factors are minimized by exercise training. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2012**, 303, R127-34	3.2	100
135	Down-regulation of mammalian mitochondrial RNAs during oxidative stress. *Free Radical Biology and Medicine*, **1997**, 22, 551-9	7.8	100
134	Aggregates of oxidized proteins (lipofuscin) induce apoptosis through proteasome inhibition and dysregulation of proapoptotic proteins. *Free Radical Biology and Medicine*, **2005**, 38, 1093-101	7.8	98
133	Potential roles of hypochlorous acid and N-chloroamines in collagen breakdown by phagocytic cells in synovitis. *Free Radical Biology and Medicine*, **1993**, 15, 637-43	7.8	96
132	Mitochondrial Lon protease is a human stress protein. *Free Radical Biology and Medicine*, **2009**, 46, 1042-8	7.8	95

131	Proteasome inhibition and aggresome formation in sporadic inclusion-body myositis and in amyloid-beta precursor protein-overexpressing cultured human muscle fibers. *American Journal of Pathology*, **2005**, 167, 517-26	5.8	95
130	Hydrogen peroxide production by red blood cells. *Free Radical Biology and Medicine*, **1994**, 16, 123-9	7.8	93
129	Aging-related decline in the induction of Nrf2-regulated antioxidant genes in human bronchial epithelial cells. *Redox Biology*, **2018**, 14, 35-40	11.3	92
128	Conservation of vitamin C by uric acid in blood. *Journal of Free Radicals in Biology & Medicine*, **1985**, 1, 117-24		92
127	Multiple roles of the DSCR1 (Adapt78 or RCAN1) gene and its protein product calcipressin 1 (or RCAN1) in disease. *Cellular and Molecular Life Sciences*, **2005**, 62, 2477-86	10.3	90
126	Protein oxidation and degradation during postmitotic senescence. *Free Radical Biology and Medicine*, **2005**, 39, 1208-15	7.8	88
125	Protein degradation in mitochondria: implications for oxidative stress, aging and disease: a novel etiological classification of mitochondrial proteolytic disorders. *Mitochondrion*, **2001**, 1, 33-49	4.9	88
124	Amyloid-β toxicity and tau hyperphosphorylation are linked via RCAN1 in Alzheimer's disease. *Journal of Alzheimer's Disease*, **2011**, 27, 701-9	4.3	86
123	The role of declining adaptive homeostasis in ageing. *Journal of Physiology*, **2017**, 595, 7275-7309	3.9	85
122	Mitochondrial Lon protease in human disease and aging: Including an etiologic classification of Lon-related diseases and disorders. *Free Radical Biology and Medicine*, **2016**, 100, 188-198	7.8	85
121	Adaptive homeostasis and the free radical theory of ageing. *Free Radical Biology and Medicine*, **2018**, 124, 420-430	7.8	84
120	Importance of the lon protease in mitochondrial maintenance and the significance of declining lon in aging. *Annals of the New York Academy of Sciences*, **2007**, 1119, 78-87	6.5	83
119	A conserved role for the 20S proteasome and Nrf2 transcription factor in oxidative stress adaptation in mammals, Caenorhabditis elegans and Drosophila melanogaster. *Journal of Experimental Biology*, **2013**, 216, 543-53	3	79
118	Superoxide dismutase is preferentially degraded by a proteolytic system from red blood cells following oxidative modification by hydrogen peroxide. *Free Radical Biology and Medicine*, **1988**, 5, 335-9	7.8	79
117	Mechanism of the formation and proteolytic release of H2O2-induced dityrosine and tyrosine oxidation products in hemoglobin and red blood cells. *Journal of Biological Chemistry*, **2001**, 276, 24129-36	5.4	75
116	The molecular chaperone Hsp70 promotes the proteolytic removal of oxidatively damaged proteins by the proteasome. *Free Radical Biology and Medicine*, **2016**, 99, 153-166	7.8	74
115	Oxidative stress adaptation with acute, chronic, and repeated stress. *Free Radical Biology and Medicine*, **2013**, 55, 109-18	7.8	73
114	Lens proteasome shows enhanced rates of degradation of hydroxyl radical modified alpha-crystallin. *Free Radical Biology and Medicine*, **1990**, 8, 217-22	7.8	69

113	Glutathiolation of the proteasome is enhanced by proteolytic inhibitors. *Archives of Biochemistry and Biophysics*, **2001**, 389, 254-63	4.1	68
112	Induction and repression of DAN1 and the family of anaerobic mannoprotein genes in Saccharomyces cerevisiae occurs through a complex array of regulatory sites. *Nucleic Acids Research* , **2001**, 29, 799-808	20.1	67
111	Optimal determination of heart tissue 26S-proteasome activity requires maximal stimulating ATP concentrations. *Journal of Molecular and Cellular Cardiology*, **2007**, 42, 265-9	5.8	66
110	Resveratrol enhances exercise training responses in rats selectively bred for high running performance. *Food and Chemical Toxicology*, **2013**, 61, 53-9	4.7	65
109	Preferential degradation of oxidized proteins by the 20S proteasome may be inhibited in aging and in inflammatory neuromuscular diseases. *Neurology*, **2006**, 66, S93-6	6.5	65
108	Proteasome inhibitors induce intracellular protein aggregation and cell death by an oxygen-dependent mechanism. *FEBS Letters*, **2003**, 542, 89-94	3.8	65
107	Tau protein degradation is catalyzed by the ATP/ubiquitin-independent 20S proteasome under normal cell conditions. *Archives of Biochemistry and Biophysics*, **2010**, 500, 181-8	4.1	60
106	Atherosclerosis: another protein misfolding disease?. *Trends in Molecular Medicine*, **2002**, 8, 370-4	11.5	59
105	Hydrogen peroxide-mediated ferrylhemoglobin generation in vitro and in red blood cells. *Methods in Enzymology*, **1994**, 231, 490-6	1.7	56
104	RCAN1-1L is overexpressed in neurons of Alzheimer's disease patients. *FEBS Journal*, **2007**, 274, 1715-24	5.7	55
103	Exercise bioenergetics following sprint training. *Archives of Biochemistry and Biophysics*, **1982**, 215, 260-5	4.1	55
102	The Proteasome and Oxidative Stress in Alzheimer's Disease. *Antioxidants and Redox Signaling*, **2016**, 25, 886-901	8.4	54
101	Cigarette smoke extract stimulates epithelial-mesenchymal transition through Src activation. *Free Radical Biology and Medicine*, **2012**, 52, 1437-42	7.8	54
100	Chronic expression of RCAN1-1L protein induces mitochondrial autophagy and metabolic shift from oxidative phosphorylation to glycolysis in neuronal cells. *Journal of Biological Chemistry*, **2012**, 287, 14088-98	5.4	54
99	The Immunoproteasome in oxidative stress, aging, and disease. *Critical Reviews in Biochemistry and Molecular Biology*, **2015**, 51, 268-81	8.7	54
98	The role of oxidative stress in anxiety disorder: cause or consequence?. *Free Radical Research*, **2018**, 52, 737-750	4	52
97	Effects of dietary iron deficiency of iron-sulfur proteins and bioenergetic functions of skeletal muscle mitochondria. *Biochimica Et Biophysica Acta - Bioenergetics*, **1982**, 679, 210-20	4.6	52
96	RCAN1 (DSCR1 or Adapt78) stimulates expression of GSK-3beta. *FEBS Journal*, **2006**, 273, 2100-9	5.7	51

95	Hydrogen peroxide induces the expression of adapt15, a novel RNA associated with polysomes in hamster HA-1 cells. *Archives of Biochemistry and Biophysics*, **1996**, 325, 256-64	4.1	51
94	Oxidative stress induces the levels of a MafG homolog in hamster HA-1 cells. *Free Radical Biology and Medicine*, **1996**, 21, 521-5	7.8	50
93	Redox Regulation of Homeostasis and Proteostasis in Peroxisomes. *Physiological Reviews*, **2018**, 98, 89-115	47.9	49
92	The Oxygen Paradox, the French Paradox, and age-related diseases. *GeroScience*, **2017**, 39, 499-550	8.9	48
91	Free radicals and exercise: an introduction. *Free Radical Biology and Medicine*, **2008**, 44, 123-5	7.8	48
90	Adaptive Response and Oxidative Stress. *Environmental Health Perspectives*, **1994**, 102, 25	8.4	48
89	Potential roles of protein oxidation and the immunoproteasome in MHC class I antigen presentation: the PrOxIPhypothesis. *Archives of Biochemistry and Biophysics*, **2004**, 423, 88-96	4.1	46
88	The DAN1 gene of S. cerevisiae is regulated in parallel with the hypoxic genes, but by a different mechanism. *Gene*, **1997**, 192, 199-205	3.8	45
87	Transit of H2O2 across the endoplasmic reticulum membrane is not sluggish. *Free Radical Biology and Medicine*, **2016**, 94, 157-60	7.8	43
86	Impairment of lon-induced protection against the accumulation of oxidized proteins in senescent wi-38 fibroblasts. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2011**, 66, 1178-85	6.4	43
85	Exercise improves import of 8-oxoguanine DNA glycosylase into the mitochondrial matrix of skeletal muscle and enhances the relative activity. *Free Radical Biology and Medicine*, **2009**, 46, 238-43	7.8	42
84	16S mitochondrial ribosomal RNA degradation is associated with apoptosis. *Free Radical Biology and Medicine*, **1997**, 22, 1295-300	7.8	42
83	adapt78, a stress-inducible mRNA, is related to the glucose-regulated protein family of genes. *Archives of Biochemistry and Biophysics*, **1999**, 368, 67-74	4.1	42
82	Influence of DNA binding on the degradation of oxidized histones by the 20S proteasome. *Archives of Biochemistry and Biophysics*, **1999**, 362, 211-6	4.1	41
81	adapt33, a novel oxidant-inducible RNA from hamster HA-1 cells. *Archives of Biochemistry and Biophysics*, **1996**, 332, 255-60	4.1	41
80	Oxidant-inducible adapt 15 RNA is associated with growth arrest- and DNA damage-inducible gadd153 and gadd45. *Archives of Biochemistry and Biophysics*, **1996**, 329, 137-44	4.1	40
79	Proteasome-dependent turnover of protein disulfide isomerase in oxidatively stressed cells. *Archives of Biochemistry and Biophysics*, **2002**, 397, 407-13	4.1	39
78	An Overview of Oxidative Stress. *IUBMB Life*, **2000**, 50, 241-244	4.7	39

77	Comparative cardiac oxygen radical metabolism by anthracycline antibiotics, mitoxantrone, bisantrene, 4P(9-acridinylamino)-methanesulfon-m-anisidide, and neocarzinostatin. *Biochemical Pharmacology*, **1983**, 32, 2935-9	6	39
76	Ubisemiquinone radicals in liver: implications for a mitochondrial Q cycle in vivo. *Biochemical and Biophysical Research Communications*, **1982**, 107, 1292-9	3.4	39
75	The age- and sex-specific decline of the 20s proteasome and the Nrf2/CncC signal transduction pathway in adaption and resistance to oxidative stress in. *Aging*, **2017**, 9, 1153-1185	5.6	37
74	Do RCAN1 proteins link chronic stress with neurodegeneration?. *FASEB Journal*, **2011**, 25, 3306-11	0.9	36
73	Ezrin turnover and cell shape changes catalyzed by proteasome in oxidatively stressed cells. *FASEB Journal*, **2002**, 16, 1602-10	0.9	35
72	Translational Perspective on the Role of Testosterone in Sexual Function and Dysfunction. *Journal of Sexual Medicine*, **2016**, 13, 1183-98	1.1	34
71	Regulator of calcineurin (RCAN1-1L) is deficient in Huntington disease and protective against mutant huntingtin toxicity in vitro. *Journal of Biological Chemistry*, **2009**, 284, 11845-53	5.4	34
70	Mitochondrial biogenesis-associated factors underlie the magnitude of response to aerobic endurance training in rats. *Pflugers Archiv European Journal of Physiology*, **2015**, 467, 779-88	4.6	33
69	Oxidative stress causes a general, calcium-dependent degradation of mitochondrial polynucleotides. *Free Radical Biology and Medicine*, **1998**, 25, 1106-11	7.8	33
68	DSCR1(Adapt78) modulates expression of SOD1. *FASEB Journal*, **2004**, 18, 62-9	0.9	33
67	Sarcopenia - Molecular mechanisms and open questions. *Ageing Research Reviews*, **2021**, 65, 101200	12	33
66	Polynucleotide degradation during early stage response to oxidative stress is specific to mitochondria. *Free Radical Biology and Medicine*, **2000**, 28, 281-8	7.8	31
65	The Oxygen Paradox, oxidative stress, and ageing. *Archives of Biochemistry and Biophysics*, **2016**, 595, 28-32	4.1	31
64	Aging attenuates redox adaptive homeostasis and proteostasis in female mice exposed to traffic-derived nanoparticles (Vehicular smog). *Free Radical Biology and Medicine*, **2018**, 121, 86-97	7.8	29
63	Cytotoxic effect of doxycycline and its implications for tet-on gene expression systems. *Analytical Biochemistry*, **2003**, 318, 152-4	3.1	28
62	The measurement of protein degradation in response to oxidative stress. *Methods in Molecular Biology*, **2000**, 99, 49-60	1.4	28
61	Aging and SKN-1-dependent Loss of 20S Proteasome Adaptation to Oxidative Stress in C. elegans. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2017**, 72, 143-151	6.4	27
60	The peroxisomal Lon protease LonP2 in aging and disease: functions and comparisons with mitochondrial Lon protease LonP1. *Biological Reviews*, **2017**, 92, 739-753	13.5	27

59	Is vitamin E an antioxidant, a regulator of signal transduction and gene expression, or a ?unk?food? Comments on the two accompanying papers: "Molecular mechanism of alpha-tocopherol action" by A. Azzi and "Vitamin E, antioxidant and nothing more" by M. Traber and J. Atkinson. *Free Radical Biology and Medicine*, **2007**, 43, 2-3	7.8	27
58	Manganese superoxide dismutase modulates interleukin-1alpha levels in HT-1080 fibrosarcoma cells. *Journal of Biological Chemistry*, **1996**, 271, 18898-903	5.4	27
57	TGF?1 rapidly activates Src through a non-canonical redox signaling mechanism. *Archives of Biochemistry and Biophysics*, **2015**, 568, 1-7	4.1	26
56	Assessing gene expression during oxidative stress. *Methods in Enzymology*, **1994**, 234, 175-217	1.7	26
55	Sex differences in the response to oxidative and proteolytic stress. *Redox Biology*, **2020**, 31, 101488	11.3	25
54	Sexual Dimorphism and Aging Differentially Regulate Adaptive Homeostasis. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2018**, 73, 141-149	6.4	25
53	Diminished stress resistance and defective adaptive homeostasis in age-related diseases. *Clinical Science*, **2017**, 131, 2573-2599	6.5	24
52	Sex-specific stress tolerance, proteolysis, and lifespan in the invertebrate Tigriopus californicus. *Experimental Gerontology*, **2019**, 119, 146-156	4.5	24
51	Competition of nuclear factor-erythroid 2 factors related transcription factor isoforms, Nrf1 and Nrf2, in antioxidant enzyme induction. *Redox Biology*, **2013**, 1, 183-9	11.3	23
50	Protein oxidation and proteolytic degradation. General aspects and relationship to cataract formation. *Advances in Experimental Medicine and Biology*, **1990**, 264, 503-11	3.6	23
49	SIRT1 may play a crucial role in overload-induced hypertrophy of skeletal muscle. *Journal of Physiology*, **2017**, 595, 3361-3376	3.9	21
48	Resveratrol attenuates exercise-induced adaptive responses in rats selectively bred for low running performance. *Dose-Response*, **2014**, 12, 57-71	2.3	21
47	Modulation of a cardiogenic shock inducible RNA by chemical stress: adapt73/PigHep3. *Surgery*, **1997**, 121, 581-7	3.6	21
46	Chronic high levels of the RCAN1-1 protein may promote neurodegeneration and Alzheimer disease. *Free Radical Biology and Medicine*, **2013**, 62, 47-51	7.8	20
45	Decreased SIRT1 deacetylase activity in sporadic inclusion-body myositis muscle fibers. *Neurobiology of Aging*, **2010**, 31, 1637-48	5.6	20
44	DSCR1(Adapt78)--a Janus gene providing stress protection but causing Alzheimer?s disease?. *IUBMB Life*, **2003**, 55, 29-31	4.7	20
43	An overview of oxidative stress. *IUBMB Life*, **2000**, 50, 241-4	4.7	20
42	Inhibition of collagenase activity by N-chlorotaurine, a product of activated neutrophils. *Arthritis and Rheumatism*, **1994**, 37, 424-7		17

41	To adapt or not to adapt: Consequences of declining Adaptive Homeostasis and Proteostasis with age. *Mechanisms of Ageing and Development*, **2019**, 177, 80-87	5.6	15
40	Characterization of adapt33, a stress-inducible riboregulator. *Gene Expression*, **2003**, 11, 85-94	3.4	15
39	A simple fluorescence labeling method for studies of protein oxidation, protein modification, and proteolysis. *Free Radical Biology and Medicine*, **2012**, 52, 239-46	7.8	13
38	Cardiovascular Adaptive Homeostasis in Exercise. *Frontiers in Physiology*, **2018**, 9, 369	4.6	10
37	Vitamin E deficiency and photosensitization of electron-transport carriers in microsomes. *FEBS Letters*, **1982**, 139, 241-4	3.8	10
36	Limitations to adaptive homeostasis in an hyperoxia-induced model of accelerated ageing. *Redox Biology*, **2019**, 24, 101194	11.3	9
35	Sexual dimorphism in oxidant-induced adaptive homeostasis in multiple wild-type D. melanogaster strains. *Archives of Biochemistry and Biophysics*, **2017**, 636, 57-70	4.1	9
34	Analysis of gene expression following oxidative stress. *Methods in Molecular Biology*, **2002**, 196, 155-62	1.4	9
33	Silencing Bach1 alters aging-related changes in the expression of Nrf2-regulated genes in primary human bronchial epithelial cells. *Archives of Biochemistry and Biophysics*, **2019**, 672, 108074	4.1	8
32	The calcineurin antagonist RCAN1-4 is induced by exhaustive exercise in rat skeletal muscle. *Free Radical Biology and Medicine*, **2015**, 87, 290-9	7.8	8
31	Genetic aberrations in Chernobyl-related thyroid cancers: implications for possible future nuclear accidents or nuclear attacks. *IUBMB Life*, **2003**, 55, 637-41	4.7	8
30	Gene expression in Alzheimer's disease. *Drugs of Today*, **2002**, 38, 509-16		8
29	COVID-19 during Pregnancy and Postpartum. *Journal of Dietary Supplements*, **2020**, 1-28	2.3	8
28	COVID-19 during Pregnancy and Postpartum. *Journal of Dietary Supplements*, **2020**, 1-37	2.3	8
27	Does Bach1 & c-Myc dependent redox dysregulation of Nrf2 & adaptive homeostasis decrease cancer risk in ageing?. *Free Radical Biology and Medicine*, **2019**, 134, 708-714	7.8	7
26	The essential role of calcium in induction of the DSCR1 (ADAPT78) gene. *BioFactors*, **2001**, 15, 91-3	6.1	7
25	Differential display: a critical analysis. *Gene Expression*, **2002**, 10, 101-7	3.4	6
24	Sex-specific adaptive homeostasis in depends on increased proteolysis by the 20S Proteasome: Data-in-Brief. *Data in Brief*, **2018**, 17, 653-661	1.2	5

23	A secondary antioxidant defense role for proteolytic systems. *Basic Life Sciences*, **1988**, 49, 575-85		5
22	Redox Regulation of Gene Expression **2000**, 21-45		4
21	OXIDATIVE DAMAGE & REPAIR: INTRODUCTION AND OVERVIEW **1991**, xvii-xxvii		4
20	Measuring redox effects on the activities of intracellular proteases such as the 20S Proteasome and the Immuno-Proteasome with fluorogenic peptides. *Free Radical Biology and Medicine*, **2019**, 143, 16-24	7.8	2
19	The radical view: Young investigator award in free radical biology and medicine. *Free Radical Biology and Medicine*, **1987**, 3, 311-312	7.8	2
18	Bacterial killing by phagocytes: potential role(s) of hypochlorous acid and hydrogen peroxide in protein turnover, DNA synthesis, and RNA synthesis. *Basic Life Sciences*, **1988**, 49, 829-32		2
17	RasGrf1 and aging. *Aging*, **2011**, 3, 455	5.6	2
16	Commentary on "Bach1 differentially regulates distinct Nrf2-dependent genes in human venous and coronary artery endothelial cells adapted to physiological oxygen levels" by Chapple et al. *Free Radical Biology and Medicine*, **2016**, 92, 163-164	7.8	1
15	What Goes Wrong with Lon in Ageing?. *Free Radical Biology and Medicine*, **2014**, 75 Suppl 1, S6	7.8	1
14	Acute Electrical Pulse Stimulation and Hyperglycemia Regulates RCAN1-4 in C2C12 myotubes through Oxidative Stress. *Free Radical Biology and Medicine*, **2014**, 75 Suppl 1, S29	7.8	1
13	The evolution of Free Radical Biology & Medicine: still radical after a quarter of a century!. *Free Radical Biology and Medicine*, **2010**, 49, 1825-33	7.8	1
12	The measurement of protein degradation in response to oxidative stress. *Basic Life Sciences*, **1988**, 49, 531-5		1
11	Constitutive and Inducible Repair Systems in Oxidative Stress **1990**, 929-952		1
10	SELECTIVE PROTEOLYSIS OF OXIDATIVELY MODIFIED PROTEINS BY MACROXYPROTEINASE (M.O.P.) **1991**, 364-372		1
9	Down regulation of glutathione and glutamate cysteine ligase in the inflammatory response of macrophages. *Free Radical Biology and Medicine*, **2020**, 158, 53-59	7.8	1
8	The stabilization of ascorbic acid by uric acid. *Advances in Experimental Medicine and Biology*, **1986**, 195 Pt A, 325-7	3.6	1
7	The proteasome beta 5 subunit is essential for sexually divergent adaptive homeostatic responses to oxidative stress in D. melanogaster. *Free Radical Biology and Medicine*, **2020**, 160, 67-77	7.8	0
6	Lactoferrin for Mental Health: Neuro-Redox Regulation and Neuroprotective Effects across the Blood-Brain Barrier with Special Reference to Neuro-COVID-19. *Journal of Dietary Supplements*, **2021**, 1-35	2.3	0

List of Publications

5 Oxidative Defense Mechanisms **2002**, 679-689

4 Possible Importance of Proteolytic Systems as Secondary Antioxidant Defenses During Ischemia-Reperfusion Injury **1988**, 169-185

3 AN ANTIOXIDANT ROLE FOR HEMOGLOBIN **1991**, 87-92

2 Repair Systems and Inducible Defenses against Oxidant Stress **1998**, 253-266

1 Protein Degradation in Aging Cells and Mitochondria: Relevance to the Neuromuscular System89-96