

Federico V Pallard

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.

194
papers

11,262
citations

56
h-index

102
g-index

207
ext. papers

12,631
ext. citations

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avg, IF

5.96
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 194 | Rapid-rate transcranial magnetic stimulation of left dorsolateral prefrontal cortex in drug-resistant depression. <i>Lancet, The</i> , 1996 , 348, 233-7 | 40 | 905 |
| 193 | Oral administration of vitamin C decreases muscle mitochondrial biogenesis and hampers training-induced adaptations in endurance performance. <i>American Journal of Clinical Nutrition</i> , 2008 , 87, 142-9 | 7 | 580 |
| 192 | Mitochondria from females exhibit higher antioxidant gene expression and lower oxidative damage than males. <i>Free Radical Biology and Medicine</i> , 2003 , 34, 546-52 | 7.8 | 440 |
| 191 | Xanthine oxidase is involved in free radical production in type 1 diabetes: protection by allopurinol. <i>Diabetes</i> , 2002 , 51, 1118-24 | 0.9 | 319 |
| 190 | Resuscitation with room air instead of 100% oxygen prevents oxidative stress in moderately asphyxiated term neonates. <i>Pediatrics</i> , 2001 , 107, 642-7 | 7.4 | 318 |
| 189 | Decreasing xanthine oxidase-mediated oxidative stress prevents useful cellular adaptations to exercise in rats. <i>Journal of Physiology</i> , 2005 , 567, 113-20 | 3.9 | 313 |
| 188 | Mitochondrial oxidative stress plays a key role in aging and apoptosis. <i>IUBMB Life</i> , 2000 , 49, 427-35 | 4.7 | 285 |
| 187 | Mitochondrial glutathione oxidation correlates with age-associated oxidative damage to mitochondrial DNA. <i>FASEB Journal</i> , 1996 , 10, 333-8 | 0.9 | 257 |
| 186 | The role of mitochondrial oxidative stress in aging. <i>Free Radical Biology and Medicine</i> , 2003 , 35, 1-8 | 7.8 | 246 |
| 185 | 17beta-oestradiol up-regulates longevity-related, antioxidant enzyme expression via the ERK1 and ERK2[MAPK]/NFkappaB cascade. <i>Aging Cell</i> , 2005 , 4, 113-8 | 9.9 | 223 |
| 184 | A nuclear glutathione cycle within the cell cycle. <i>Biochemical Journal</i> , 2010 , 431, 169-78 | 3.8 | 198 |
| 183 | Mitochondria, oxidative stress and aging. <i>Free Radical Research</i> , 2000 , 32, 189-98 | 4 | 197 |
| 182 | Aging of the liver: age-associated mitochondrial damage in intact hepatocytes. <i>Hepatology</i> , 1996 , 24, 1199-205 | 11.2 | 173 |
| 181 | Vitamin E paradox in Alzheimer's disease: it does not prevent loss of cognition and may even be detrimental. <i>Journal of Alzheimer's Disease</i> , 2009 , 17, 143-9 | 4.3 | 167 |
| 180 | A Ginkgo biloba extract (EGb 761) prevents mitochondrial aging by protecting against oxidative stress. <i>Free Radical Biology and Medicine</i> , 1998 , 24, 298-304 | 7.8 | 164 |
| 179 | Why females live longer than males? Importance of the upregulation of longevity-associated genes by oestrogenic compounds. <i>FEBS Letters</i> , 2005 , 579, 2541-5 | 3.8 | 162 |
| 178 | A high-performance liquid chromatography method for measurement of oxidized glutathione in biological samples. <i>Analytical Biochemistry</i> , 1994 , 217, 323-8 | 3.1 | 155 |

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| 177 | Oxidative damage to mitochondrial DNA and glutathione oxidation in apoptosis: studies in vivo and in vitro. <i>FASEB Journal</i> , 1999 , 13, 1055-64 | 0.9 | 151 |
| 176 | Mitochondrial biogenesis in exercise and in ageing. <i>Advanced Drug Delivery Reviews</i> , 2009 , 61, 1369-74 | 18.5 | 146 |
| 175 | Recruitment of glutathione into the nucleus during cell proliferation adjusts whole-cell redox homeostasis in <i>Arabidopsis thaliana</i> and lowers the oxidative defence shield. <i>Plant Journal</i> , 2010 , 64, 825-38 | 6.9 | 144 |
| 174 | Glutathione is recruited into the nucleus in early phases of cell proliferation. <i>Journal of Biological Chemistry</i> , 2007 , 282, 20416-24 | 5.4 | 139 |
| 173 | Direct antioxidant and protective effect of estradiol on isolated mitochondria. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2010 , 1802, 205-11 | 6.9 | 138 |
| 172 | Mechanism of free radical production in exhaustive exercise in humans and rats; role of xanthine oxidase and protection by allopurinol. <i>IUBMB Life</i> , 2000 , 49, 539-44 | 4.7 | 135 |
| 171 | Estradiol or genistein prevent Alzheimer β disease-associated inflammation correlating with an increase PPAR gamma expression in cultured astrocytes. <i>Brain Research</i> , 2010 , 1312, 138-44 | 3.7 | 134 |
| 170 | Free Radicals in Exhaustive Physical Exercise: Mechanism of Production, and Protection by Antioxidants. <i>IUBMB Life</i> , 2000 , 50, 271-277 | 4.7 | 130 |
| 169 | Ratio of reduced to oxidized glutathione as indicator of oxidative stress status and DNA damage. <i>Methods in Enzymology</i> , 1999 , 299, 267-76 | 1.7 | 129 |
| 168 | Genistein, a soy isoflavone, up-regulates expression of antioxidant genes: involvement of estrogen receptors, ERK1/2, and NFkappaB. <i>FASEB Journal</i> , 2006 , 20, 2136-8 | 0.9 | 128 |
| 167 | AZT treatment induces molecular and ultrastructural oxidative damage to muscle mitochondria. Prevention by antioxidant vitamins. <i>Journal of Clinical Investigation</i> , 1998 , 102, 4-9 | 15.9 | 121 |
| 166 | Role of nuclear glutathione as a key regulator of cell proliferation. <i>Molecular Aspects of Medicine</i> , 2009 , 30, 77-85 | 16.7 | 120 |
| 165 | Ursodeoxycholic acid protects against secondary biliary cirrhosis in rats by preventing mitochondrial oxidative stress. <i>Hepatology</i> , 2004 , 39, 711-20 | 11.2 | 114 |
| 164 | Mitochondrial theory of aging: importance to explain why females live longer than males. <i>Antioxidants and Redox Signaling</i> , 2003 , 5, 549-56 | 8.4 | 105 |
| 163 | Role of mitochondrial oxidative stress to explain the different longevity between genders: protective effect of estrogens. <i>Free Radical Research</i> , 2006 , 40, 1359-65 | 4 | 97 |
| 162 | Mitochondrial oxidative stress and CD95 ligand: a dual mechanism for hepatocyte apoptosis in chronic alcoholism. <i>Hepatology</i> , 2002 , 35, 1205-14 | 11.2 | 97 |
| 161 | Mitochondrial dysfunction in some oxidative stress-related genetic diseases: Ataxia-Telangiectasia, Down Syndrome, Fanconi Anaemia and Werner Syndrome. <i>Biogerontology</i> , 2010 , 11, 401-19 | 4.5 | 91 |
| 160 | Oxidative stress and mitochondrial dysfunction across broad-ranging pathologies: toward mitochondria-targeted clinical strategies. <i>Oxidative Medicine and Cellular Longevity</i> , 2014 , 2014, 541230 | 6.7 | 90 |

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|-----|---|------|----|
| 159 | Amyloid- β toxicity and tau hyperphosphorylation are linked via RCAN1 in Alzheimer's disease. <i>Journal of Alzheimer's Disease</i> , 2011 , 27, 701-9 | 4.3 | 86 |
| 158 | Allopurinol and markers of muscle damage among participants in the Tour de France. <i>JAMA - Journal of the American Medical Association</i> , 2003 , 289, 2503-4 | 27.4 | 85 |
| 157 | Oxidative stress in marathon runners: interest of antioxidant supplementation. <i>British Journal of Nutrition</i> , 2006 , 96 Suppl 1, S31-3 | 3.6 | 83 |
| 156 | Na ⁺ dependent glutamate transporters (EAAT1, EAAT2, and EAAT3) in primary astrocyte cultures: effect of oxidative stress. <i>Brain Research</i> , 2001 , 922, 21-9 | 3.7 | 78 |
| 155 | The depletion of nuclear glutathione impairs cell proliferation in 3t3 fibroblasts. <i>PLoS ONE</i> , 2009 , 4, e64137 | 3.7 | 77 |
| 154 | Xanthine oxidase-induced oxidative stress causes activation of NF-kappaB and inflammation in the liver of type I diabetic rats. <i>Free Radical Biology and Medicine</i> , 2010 , 49, 171-7 | 7.8 | 77 |
| 153 | Why females live longer than males: control of longevity by sex hormones. <i>Science of Aging Knowledge Environment: SAGE KE</i> , 2005 , 2005, pe17 | | 76 |
| 152 | Nuclear glutathione. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013 , 1830, 3304-16 | 4 | 74 |
| 151 | Pyridine nucleotide cycling and control of intracellular redox state in relation to poly (ADP-ribose) polymerase activity and nuclear localization of glutathione during exponential growth of Arabidopsis cells in culture. <i>Molecular Plant</i> , 2009 , 2, 442-56 | 14.4 | 73 |
| 150 | Mitochondrial biogenesis in health and disease. Molecular and therapeutic approaches. <i>Current Pharmaceutical Design</i> , 2014 , 20, 5619-33 | 3.3 | 70 |
| 149 | Histone h3 glutathionylation in proliferating mammalian cells destabilizes nucleosomal structure. <i>Antioxidants and Redox Signaling</i> , 2013 , 19, 1305-20 | 8.4 | 69 |
| 148 | Epigenetic biomarkers: Current strategies and future challenges for their use in the clinical laboratory. <i>Critical Reviews in Clinical Laboratory Sciences</i> , 2017 , 54, 529-550 | 9.4 | 68 |
| 147 | Mitochondrial function in liver disease. <i>Frontiers in Bioscience - Landmark</i> , 2007 , 12, 1200-9 | 2.8 | 65 |
| 146 | Physical exercise as an epigenetic modulator: Eustress, the "positive stress" as an effector of gene expression. <i>Journal of Strength and Conditioning Research</i> , 2012 , 26, 3469-72 | 3.2 | 64 |
| 145 | Multiple evidence for an early age pro-oxidant state in Down Syndrome patients. <i>Biogerontology</i> , 2006 , 7, 211-20 | 4.5 | 63 |
| 144 | Physiological changes in glutathione metabolism in foetal and newborn rat liver. <i>Biochemical Journal</i> , 1991 , 274 (Pt 3), 891-3 | 3.8 | 62 |
| 143 | Role of glutathione in the regulation of epigenetic mechanisms in disease. <i>Free Radical Biology and Medicine</i> , 2017 , 112, 36-48 | 7.8 | 61 |
| 142 | Oestradiol or genistein rescues neurons from amyloid beta-induced cell death by inhibiting activation of p38. <i>Aging Cell</i> , 2008 , 7, 112-8 | 9.9 | 60 |

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|-----|--|------|----|
| 141 | Zidovudine (AZT) causes an oxidation of mitochondrial DNA in mouse liver. <i>Hepatology</i> , 1999 , 29, 985-7 | 11.2 | 59 |
| 140 | Oxidative stress as a multiple effector in Fanconi anaemia clinical phenotype. <i>European Journal of Haematology</i> , 2005 , 75, 93-100 | 3.8 | 57 |
| 139 | Oxidative Stress and Inflammation in COVID-19-Associated Sepsis: The Potential Role of Anti-Oxidant Therapy in Avoiding Disease Progression. <i>Antioxidants</i> , 2020 , 9, | 7.1 | 57 |
| 138 | Glutathione regulates telomerase activity in 3T3 fibroblasts. <i>Journal of Biological Chemistry</i> , 2004 , 279, 34332-5 | 5.4 | 56 |
| 137 | Exercise causes blood glutathione oxidation in chronic obstructive pulmonary disease: prevention by O ₂ therapy. <i>Journal of Applied Physiology</i> , 1996 , 81, 2199-2202 | 3.7 | 55 |
| 136 | Oxidative stress in Fanconi anaemia: from cells and molecules towards prospects in clinical management. <i>Biological Chemistry</i> , 2012 , 393, 11-21 | 4.5 | 49 |
| 135 | Age-related increase in xanthine oxidase activity in human plasma and rat tissues. <i>Free Radical Research</i> , 2007 , 41, 1195-200 | 4 | 49 |
| 134 | Free radicals in exhaustive physical exercise: mechanism of production, and protection by antioxidants. <i>IUBMB Life</i> , 2000 , 50, 271-7 | 4.7 | 47 |
| 133 | Epigenetic biomarkers in laboratory diagnostics: emerging approaches and opportunities. <i>Expert Review of Molecular Diagnostics</i> , 2013 , 13, 457-71 | 3.8 | 46 |
| 132 | Gender and age-dependent differences in the mitochondrial apoptogenic pathway in Alzheimer's disease. <i>Free Radical Biology and Medicine</i> , 2008 , 44, 2019-25 | 7.8 | 46 |
| 131 | Role of glutathione in cell nucleus. <i>Free Radical Research</i> , 2010 , 44, 721-33 | 4 | 43 |
| 130 | DNA binding, nuclease activity, DNA photocleavage and cytotoxic properties of Cu(II) complexes of N-substituted sulfonamides. <i>Journal of Inorganic Biochemistry</i> , 2013 , 121, 167-78 | 4.2 | 41 |
| 129 | Gender- and age-related distinctions for the in vivo prooxidant state in Fanconi anaemia patients. <i>Carcinogenesis</i> , 2004 , 25, 1899-909 | 4.6 | 41 |
| 128 | RasGrf1 deficiency delays aging in mice. <i>Aging</i> , 2011 , 3, 262-76 | 5.6 | 41 |
| 127 | Determination of oxidized glutathione in blood: high-performance liquid chromatography. <i>Methods in Enzymology</i> , 1994 , 234, 367-71 | 1.7 | 40 |
| 126 | Epigenetic biomarkers: A new perspective in laboratory diagnostics. <i>Clinica Chimica Acta</i> , 2012 , 413, 1576-82 | | 39 |
| 125 | In vivo prooxidant state in Werner syndrome (WS): results from three WS patients and two WS heterozygotes. <i>Free Radical Research</i> , 2005 , 39, 529-33 | 4 | 39 |
| 124 | Sjögren's syndrome-associated oxidative stress and mitochondrial dysfunction: prospects for chemoprevention trials. <i>Free Radical Research</i> , 2013 , 47, 71-3 | 4 | 38 |

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|-----|---|-----|----|
| 123 | Mitochondrial oxidant signalling in Alzheimer's disease. <i>Journal of Alzheimer's Disease</i> , 2007 , 11, 175-81 | 4.3 | 38 |
| 122 | AZT induces oxidative damage to cardiac mitochondria: protective effect of vitamins C and E. <i>Life Sciences</i> , 2004 , 76, 47-56 | 6.8 | 38 |
| 121 | Glutathione, oxidative stress and aging | | 37 |
| 120 | Modulation of longevity-associated genes by estrogens or phytoestrogens. <i>Biological Chemistry</i> , 2008 , 389, 273-7 | 4.5 | 36 |
| 119 | Antioxidant administration to the mother prevents oxidative stress associated with birth in the neonatal rat. <i>Life Sciences</i> , 1994 , 54, 2055-9 | 6.8 | 36 |
| 118 | Differential expression of PGC-1 α and metabolic sensors suggest age-dependent induction of mitochondrial biogenesis in Friedreich ataxia fibroblasts. <i>PLoS ONE</i> , 2011 , 6, e20666 | 3.7 | 35 |
| 117 | Sepsis and Coronavirus Disease 2019: Common Features and Anti-Inflammatory Therapeutic Approaches. <i>Critical Care Medicine</i> , 2020 , 48, 1841-1844 | 1.4 | 35 |
| 116 | Decreased cell proliferation and higher oxidative stress in fibroblasts from Down Syndrome fetuses. Preliminary study. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2014 , 1842, 116-25 | 6.9 | 33 |
| 115 | Free [NADH]/[NAD(+)] regulates sirtuin expression. <i>Archives of Biochemistry and Biophysics</i> , 2011 , 512, 24-9 | 4.1 | 33 |
| 114 | Circulating mononuclear cells nuclear factor-kappa B activity, plasma xanthine oxidase, and low grade inflammatory markers in adult patients with familial hypercholesterolaemia. <i>European Journal of Clinical Investigation</i> , 2010 , 40, 89-94 | 4.6 | 33 |
| 113 | Mitochondrial damage in aging and apoptosis. <i>Annals of the New York Academy of Sciences</i> , 2002 , 959, 448-51 | 6.5 | 33 |
| 112 | Multiple involvement of oxidative stress in Werner syndrome phenotype. <i>Biogerontology</i> , 2005 , 6, 233-42 | 4.5 | 33 |
| 111 | Vitamin A deficiency causes oxidative damage to liver mitochondria in rats. <i>Free Radical Biology and Medicine</i> , 2000 , 29, 1-7 | 7.8 | 32 |
| 110 | Reversible Axonal Dystrophy by Calcium Modulation in Frataxin-Deficient Sensory Neurons of YG8R Mice. <i>Frontiers in Molecular Neuroscience</i> , 2017 , 10, 264 | 6.1 | 31 |
| 109 | Mitochondrial defects and neuromuscular degeneration caused by altered expression of <i>Drosophila</i> Gdap1: implications for the Charcot-Marie-Tooth neuropathy. <i>Human Molecular Genetics</i> , 2015 , 24, 21-36 | 5.6 | 30 |
| 108 | Much More Than a Scaffold: Cytoskeletal Proteins in Neurological Disorders. <i>Cells</i> , 2020 , 9, | 7.9 | 29 |
| 107 | Effect of gender on mitochondrial toxicity of Alzheimer's Abeta peptide. <i>Antioxidants and Redox Signaling</i> , 2007 , 9, 1677-90 | 8.4 | 29 |
| 106 | Vitamin E deficiency induces liver nuclear factor-kappaB DNA-binding activity and changes in related genes. <i>Free Radical Research</i> , 2005 , 39, 1127-38 | 4 | 29 |

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| 105 | Increased oxidative stress and impaired antioxidant response in Lafora disease. <i>Molecular Neurobiology</i> , 2015 , 51, 932-46 | 6.2 | 28 |
| 104 | Effects of cysteine and N-acetyl cysteine on GSH content of brain of adult rats. <i>Experientia</i> , 1983 , 39, 164-5 | | 28 |
| 103 | Age-related changes in glutathione synthesis in the eye lens. <i>Biochemical Journal</i> , 1990 , 269, 531-4 | 3.8 | 27 |
| 102 | Thioredoxin (Trxo1) interacts with proliferating cell nuclear antigen (PCNA) and its overexpression affects the growth of tobacco cell culture. <i>Redox Biology</i> , 2017 , 11, 688-700 | 11.3 | 26 |
| 101 | A new mass spectrometry-based method for the quantification of histones in plasma from septic shock patients. <i>Scientific Reports</i> , 2017 , 7, 10643 | 4.9 | 26 |
| 100 | Histone carbonylation occurs in proliferating cells. <i>Free Radical Biology and Medicine</i> , 2012 , 52, 1453-64 | 7.8 | 26 |
| 99 | Congenital disorders sharing oxidative stress and cancer proneness as phenotypic hallmarks: prospects for joint research in pharmacology. <i>Medical Hypotheses</i> , 1998 , 51, 253-66 | 3.8 | 26 |
| 98 | Increased plasma xanthine oxidase activity is related to nuclear factor kappa beta activation and inflammatory markers in familial combined hyperlipidemia. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2010 , 20, 734-9 | 4.5 | 24 |
| 97 | Glutathione depletion by hyperphagia-induced obesity. <i>Life Sciences</i> , 1989 , 45, 183-7 | 6.8 | 24 |
| 96 | Extracellular histones disarrange vasoactive mediators release through a COX-NOS interaction in human endothelial cells. <i>Journal of Cellular and Molecular Medicine</i> , 2017 , 21, 1584-1592 | 5.6 | 23 |
| 95 | Cellular Responses in Human Dental Pulp Stem Cells Treated with Three Endodontic Materials. <i>Stem Cells International</i> , 2017 , 2017, 8920356 | 5 | 23 |
| 94 | Different patterns of in vivo pro-oxidant states in a set of cancer- or aging-related genetic diseases. <i>Free Radical Biology and Medicine</i> , 2008 , 44, 495-503 | 7.8 | 23 |
| 93 | Acute telomerase components depletion triggers oxidative stress as an early event previous to telomeric shortening. <i>Redox Biology</i> , 2018 , 14, 398-408 | 11.3 | 22 |
| 92 | Weaning induces NOS-2 expression through NF-kappaB modulation in the lactating mammary gland: importance of GSH. <i>Biochemical Journal</i> , 2005 , 391, 581-8 | 3.8 | 22 |
| 91 | Hepatic gamma-cystathionase deficiency in patients with AIDS. <i>JAMA - Journal of the American Medical Association</i> , 2001 , 285, 1444-5 | 27.4 | 22 |
| 90 | Late onset administration of oral antioxidants prevents age-related loss of motor co-ordination and brain mitochondrial DNA damage. <i>Free Radical Research</i> , 1998 , 29, 617-23 | 4 | 22 |
| 89 | Effect of intermittent hypoxia on hematological parameters after recombinant human erythropoietin administration. <i>European Journal of Applied Physiology</i> , 2009 , 107, 429-36 | 3.4 | 21 |
| 88 | Age-associated oxidative damage leads to absence of gamma-cystathionase in over 50% of rat lenses: relevance in cataractogenesis. <i>Free Radical Biology and Medicine</i> , 2005 , 38, 575-82 | 7.8 | 21 |

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|----|--|------|----|
| 87 | Oxidative Stress, a Crossroad Between Rare Diseases and Neurodegeneration. <i>Antioxidants</i> , 2020 , 9, | 7.1 | 20 |
| 86 | Oxidative stress, a new hallmark in the pathophysiology of Lafora progressive myoclonus epilepsy. <i>Free Radical Biology and Medicine</i> , 2015 , 88, 30-41 | 7.8 | 20 |
| 85 | Circular RNAs in Sepsis: Biogenesis, Function, and Clinical Significance. <i>Cells</i> , 2020 , 9, | 7.9 | 19 |
| 84 | Extracellular histones activate autophagy and apoptosis via mTOR signaling in human endothelial cells. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018 , 1864, 3234-3246 | 6.9 | 19 |
| 83 | From clinical description, to in vitro and animal studies, and backward to patients: oxidative stress and mitochondrial dysfunction in Fanconi anemia. <i>Free Radical Biology and Medicine</i> , 2013 , 58, 118-25 | 7.8 | 19 |
| 82 | Increased oxidative stress levels and normal antioxidant enzyme activity in circulating mononuclear cells from patients of familial hypercholesterolemia. <i>Metabolism: Clinical and Experimental</i> , 2010 , 59, 293-8 | 12.7 | 19 |
| 81 | Reactive Glia-Derived Neuroinflammation: a Novel Hallmark in Lafora Progressive Myoclonus Epilepsy That Progresses with Age. <i>Molecular Neurobiology</i> , 2020 , 57, 1607-1621 | 6.2 | 19 |
| 80 | Circulating miRNAs as diagnostic biomarkers for adolescent idiopathic scoliosis. <i>Scientific Reports</i> , 2018 , 8, 2646 | 4.9 | 18 |
| 79 | Maintenance of glutathione levels and its importance in epigenetic regulation. <i>Frontiers in Pharmacology</i> , 2014 , 5, 88 | 5.6 | 18 |
| 78 | Relaxant effects of antidepressants on human isolated mesenteric arteries. <i>British Journal of Clinical Pharmacology</i> , 1999 , 48, 223-9 | 3.8 | 18 |
| 77 | Effect of aging on metabolic zonation in rat liver: acinar distribution of GSH metabolism. <i>Mechanisms of Ageing and Development</i> , 1992 , 62, 181-90 | 5.6 | 18 |
| 76 | Small RNA-seq analysis of circulating miRNAs to identify phenotypic variability in Friedreich's ataxia patients. <i>Scientific Data</i> , 2018 , 5, 180021 | 8.2 | 17 |
| 75 | Comparison of the flux of carbon to hepatic glycogen deposition and fatty acid and cholesterol synthesis on refeeding rats fed ad libitum or meal-fed rats with a chow-diet meal. <i>Biochemical Journal</i> , 1989 , 257, 607-10 | 3.8 | 17 |
| 74 | miR-1226 detection in GCF as potential biomarker of chronic periodontitis: A pilot study. <i>Medicina Oral, Patología Oral Y Cirugía Bucal</i> , 2018 , 23, e308-e314 | 2.6 | 17 |
| 73 | Current experience in testing mitochondrial nutrients in disorders featuring oxidative stress and mitochondrial dysfunction: rational design of chemoprevention trials. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 20169-208 | 6.3 | 16 |
| 72 | Inhibition of liver trans-sulphuration pathway by propargylglycine mimics gene expression changes found in the mammary gland of weaned lactating rats: role of glutathione. <i>Biochemical Journal</i> , 2003 , 373, 825-34 | 3.8 | 16 |
| 71 | Circulating miR-323-3p is a biomarker for cardiomyopathy and an indicator of phenotypic variability in Friedreich's ataxia patients. <i>Scientific Reports</i> , 2017 , 7, 5237 | 4.9 | 15 |
| 70 | Expression of the genetic suppressor element 24.2 (GSE24.2) decreases DNA damage and oxidative stress in X-linked dyskeratosis congenita cells. <i>PLoS ONE</i> , 2014 , 9, e101424 | 3.7 | 15 |

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| 69 | Oxidative stress and mitochondrial dysfunction in Kindler syndrome. <i>Orphanet Journal of Rare Diseases</i> , 2014 , 9, 211 | 4.2 | 15 |
| 68 | Bone marrow cell transcripts from Fanconi anaemia patients reveal in vivo alterations in mitochondrial, redox and DNA repair pathways. <i>European Journal of Haematology</i> , 2013 , 91, 141-51 | 3.8 | 15 |
| 67 | Glutamate cysteine ligase up-regulation fails in necrotizing pancreatitis. <i>Free Radical Biology and Medicine</i> , 2008 , 44, 1599-609 | 7.8 | 15 |
| 66 | Effect of pinealectomy and circadian rhythm on avoidance behavior in the male rat. <i>Physiology and Behavior</i> , 1985 , 34, 327-33 | 3.5 | 15 |
| 65 | Oxidative stress and antioxidant response in fibroblasts from Werner and atypical Werner syndromes. <i>Aging</i> , 2014 , 6, 231-45 | 5.6 | 15 |
| 64 | Harmonization of QSAR Best Practices and Molecular Docking Provides an Efficient Virtual Screening Tool for Discovering New G-Quadruplex Ligands. <i>Journal of Chemical Information and Modeling</i> , 2015 , 55, 2094-110 | 6.1 | 14 |
| 63 | Glutathione levels in blood from ataxia telangiectasia patients suggest in vivo adaptive mechanisms to oxidative stress. <i>Clinical Biochemistry</i> , 2007 , 40, 666-70 | 3.5 | 14 |
| 62 | Dependence of hepatic gluconeogenesis on PO ₂ : inhibitory effects of halothane. <i>Journal of Applied Physiology</i> , 1987 , 63, 1776-80 | 3.7 | 14 |
| 61 | Oxidative stress-mediated alterations in histone post-translational modifications. <i>Free Radical Biology and Medicine</i> , 2021 , 170, 6-18 | 7.8 | 14 |
| 60 | Lafora disease fibroblasts exemplify the molecular interdependence between thioredoxin 1 and the proteasome in mammalian cells. <i>Free Radical Biology and Medicine</i> , 2013 , 65, 347-359 | 7.8 | 13 |
| 59 | Living at high altitude in combination with sea-level sprint training increases hematological parameters but does not improve performance in rats. <i>European Journal of Applied Physiology</i> , 2011 , 111, 1147-56 | 3.4 | 13 |
| 58 | PPAR gamma agonist leriglitazone improves frataxin-loss impairments in cellular and animal models of Friedreich Ataxia. <i>Neurobiology of Disease</i> , 2021 , 148, 105162 | 7.5 | 13 |
| 57 | A Drosophila model of GDAP1 function reveals the involvement of insulin signalling in the mitochondria-dependent neuromuscular degeneration. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017 , 1863, 801-809 | 6.9 | 12 |
| 56 | Piclamilast inhibits the pro-apoptotic and anti-proliferative responses of A549 cells exposed to H ₂ O ₂ via mechanisms involving AP-1 activation. <i>Free Radical Research</i> , 2012 , 46, 690-9 | 4 | 12 |
| 55 | Cyanoside chloride and chromocarbe diethylamine are more effective than vitamin C against exercise-induced oxidative stress. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2001 , 89, 255-8 | | 12 |
| 54 | From genetics to epigenetics to unravel the etiology of adolescent idiopathic scoliosis. <i>Bone</i> , 2020 , 140, 115563 | 4.7 | 12 |
| 53 | Thioredoxin and Glutaredoxin Systems as Potential Targets for the Development of New Treatments in Friedreich's Ataxia. <i>Antioxidants</i> , 2020 , 9, | 7.1 | 12 |
| 52 | Oxidative post-translational modifications in histones. <i>BioFactors</i> , 2019 , 45, 641-650 | 6.1 | 11 |

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|----|--|------|----|
| 51 | Oxidative stress biomarkers in four Bloom syndrome (BS) patients and in their parents suggest in vivo redox abnormalities in BS phenotype. <i>Clinical Biochemistry</i> , 2007 , 40, 1100-3 | 3.5 | 11 |
| 50 | Aging-Related Disorders and Mitochondrial Dysfunction: A Critical Review for Prospect Mitoprotective Strategies Based on Mitochondrial Nutrient Mixtures. <i>International Journal of Molecular Sciences</i> , 2020 , 21, | 6.3 | 11 |
| 49 | Selective regional distribution of tubulin induced in cerebrum by hyperammonemia. <i>Neurochemical Research</i> , 1989 , 14, 1241-3 | 4.6 | 10 |
| 48 | Oxidative stress modulates rearrangement of endoplasmic reticulum-mitochondria contacts and calcium dysregulation in a Friedreich's ataxia model. <i>Redox Biology</i> , 2020 , 37, 101762 | 11.3 | 10 |
| 47 | Could thiazolidinediones increase the risk of heart failure in Friedreich's ataxia patients?. <i>Movement Disorders</i> , 2011 , 26, 769-71 | 7 | 9 |
| 46 | Brain energy consumption in ethanol-treated, Long-Evans rats. <i>Journal of Nutrition</i> , 1991 , 121, 879-86 | 4.1 | 9 |
| 45 | Phosphodiesterase Inhibitors Revert Axonal Dystrophy in Friedreich's Ataxia Mouse Model. <i>Neurotherapeutics</i> , 2019 , 16, 432-449 | 6.4 | 9 |
| 44 | Fanconi anemia (FA) and crosslinker sensitivity: Re-appraising the origins of FA definition. <i>Pediatric Blood and Cancer</i> , 2015 , 62, 1137-43 | 3 | 8 |
| 43 | Cofilin dysregulation alters actin turnover in frataxin-deficient neurons. <i>Scientific Reports</i> , 2020 , 10, 52074.9 | 4.9 | 8 |
| 42 | Glutathione and cellular redox control in epigenetic regulation. <i>Free Radical Biology and Medicine</i> , 2014 , 75 Suppl 1, S3 | 7.8 | 8 |
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