

Publications using the BioCell Protein Carbonyl Assay Kit

1. Dzik, K., W. Skrobot, D.J. Flis, M. Karnia, W. Libionka, W. Kloc, and J.J. Kaczor, *Vitamin D supplementation attenuates oxidative stress in paraspinal skeletal muscles in patients with low back pain*. Eur J Appl Physiol, 2018. **118**(1): p. 143-151.
2. Knight, A.R., E.L. Taylor, R. Lukaszewski, K.T. Jensen, H.E. Jones, J.E. Carre, M.N. Isupov, J.A. Littlechild, S.J. Bailey, E. Brewer, T.J. McDonald, A.R. Pitt, C.M. Spickett, and P.G. Winyard, *A high-sensitivity electrochemiluminescence-based ELISA for the measurement of the oxidative stress biomarker, 3-nitrotyrosine, in human blood serum and cells*. Free Radic Biol Med, 2018. **120**: p. 246-254.
3. Jackman, S.R., M.S. Brook, R.M. Pulsford, E.J. Cockcroft, M.I. Campbell, D. Rankin, P. Atherton, K. Smith, and J.L. Bowtell, *Tart cherry concentrate does not enhance muscle protein synthesis response to exercise and protein in healthy older men*. Exp Gerontol, 2018. **110**: p. 202-208.
4. Van Rooyen, L.A., P. Allen, and D.I. O'Connor, *Effect of muscle type and CO-pretreatment combinations on the colour stability, protein oxidation and shelf-life of vacuum packaged beef steaks*. Meat Sci, 2018. **145**: p. 407-414.
5. Kaszubowska, L., J. Foerster, J.J. Kaczor, D. Schetz, T.J. Slebioda, and Z. Kmiec, *NK cells of the oldest seniors represent constant and resistant to stimulation high expression of cellular protective proteins SIRT1 and HSP70*. Immun Ageing, 2018. **15**: p. 12.
6. Elmer, L.K., C.M. O'Connor, D.P. Philipp, G. Van Der Kraak, K.M. Gilmour, W.G. Willmore, B.L. Barthel, and S.J. Cooke, *Oxidative ecology of paternal care in wild smallmouth bass, Micropterus dolomieu*. J Exp Biol, 2017. **220**(Pt 10): p. 1905-1914.
7. Jayaratne, S.K., P.J. Donaldson, M.H. Vickers, and J.C. Lim, *The Effects of Maternal Under-Nutrition and a Post-Natal High Fat Diet on Lens Growth, Transparency and Oxidative Defense Systems in Rat Offspring*. Curr Eye Res, 2017. **42**(4): p. 589-599.
8. Piotrowska, H., M. Kujawska, M. Nowicki, E. Petzke, E. Ignatowicz, V. Krajka-Kuzniak, P. Zawierucha, M. Wierzchowski, M. Murias, and J. Jodynis-Liebert, *Effect of resveratrol analogue, DMU-212, on antioxidant status and apoptosis-related genes in rat model of hepatocarcinogenesis*. Hum Exp Toxicol, 2017. **36**(2): p. 160-175.
9. Young, R.C., J. Welcker, C.P. Barger, S.A. Hatch, T. Merklings, E.V. Kitaiskaia, M.F. Hausmann, and A.S. Kitaysky, *Effects of developmental conditions on growth, stress and telomeres in black-legged kittiwake chicks*. Mol Ecol, 2017. **26**(13): p. 3572-3584.
10. Kaczor, J.J., H.A. Robertshaw, and M.A. Tarnopolsky, *Higher oxidative stress in skeletal muscle of McArdle disease patients*. Mol Genet Metab Rep, 2017. **12**: p. 69-75.
11. Kaszubowska, L., J. Foerster, J.J. Kaczor, D. Schetz, T.J. Slebioda, and Z. Kmiec, *Expression of cellular protective proteins SIRT1, HSP70 and SOD2 correlates with age and is significantly higher in NK cells of the oldest seniors*. Immun Ageing, 2017. **14**: p. 3.
12. Green, J.N., A.L.P. Chapman, C.J. Bishop, C.C. Winterbourn, and A.J. Kettle, *Neutrophil granule proteins generate bactericidal ammonia chloramine on reaction with hydrogen peroxide*. Free Radic Biol Med, 2017. **113**: p. 363-371.
13. Caballero, B., N. Olguin, F. Campos, M. Farina, F. Ballester, M.J. Lopez-Espinosa, S. Llop, E. Rodriguez-Farre, and C. Sunol, *Methylmercury-induced developmental toxicity is associated with oxidative stress and cofilin phosphorylation. Cellular and human studies*. Neurotoxicology, 2017. **59**: p. 197-209.
14. Storey, A.G., N.P. Birch, V. Fan, and H.K. Smith, *Stress responses to short-term intensified and reduced training in competitive weightlifters*. Scand J Med Sci Sports, 2016. **26**(1): p. 29-40.
15. Carelli, S., G. Ghilardi, P. Bianciardi, E. Latorre, F. Rubino, M. Bissi, A.M. Di Giulio, M. Samaja, and A. Gorio, *Enhanced brain release of erythropoietin, cytokines and NO during carotid clamping*. Neurol Sci, 2016. **37**(2): p. 243-52.

16. Choobineh, H., M.A. Sadighi Gilani, P. Pasalar, I. Jahanzad, R. Ghorbani, and G. Hassanzadeh, *The Effects of Testosterone on Oxidative Stress Markers in Mice with Spinal Cord Injuries*. Int J Fertil Steril, 2016. **10**(1): p. 87-93.
17. Hsu, C.C., H.T. Yang, J.J. Ho, M.C. Yin, and J.Y. Hsu, *Houttuynia cordata aqueous extract attenuated glycativ and oxidative stress in heart and kidney of diabetic mice*. Eur J Nutr, 2016. **55**(2): p. 845-854.
18. Rubio-Perez, J.M., M.D. Albaladejo, P. Zafrilla, M.L. Vidal-Guevara, and J.M. Morillas-Ruiz, *Effects of an antioxidant beverage on biomarkers of oxidative stress in Alzheimer's patients*. Eur J Nutr, 2016. **55**(6): p. 2105-16.
19. Kujawska, M., M. Ewertowska, T. Adamska, E. Ignatowicz, E. Flaczyk, M. Przeor, M. Kurpik, and J.J. Liebert, *Protective Effect of Morus alba Leaf Extract on N-Nitrosodiethylamine-induced Hepatocarcinogenesis in Rats*. In Vivo, 2016. **30**(6): p. 807-812.
20. Barreiro, E., E. Puig-Vilanova, J. Marin-Corral, A. Chacon-Cabrera, A. Salazar-Degracia, X. Mateu, L. Puente-Maestu, E. Garcia-Arumi, A.L. Andreu, and L. Molina, *Therapeutic Approaches in Mitochondrial Dysfunction, Proteolysis, and Structural Alterations of Diaphragm and Gastrocnemius in Rats With Chronic Heart Failure*. J Cell Physiol, 2016. **231**(7): p. 1495-513.
21. Patel, M.S., A.V. Donaldson, A. Lewis, S.A. Natanek, J.Y. Lee, Y.M. Andersson, G. Haji, S.G. Jackson, B.J. Bolognese, J.P. Foley, P.L. Podolin, P.L. Bruijnzeel, N. Hart, N.S. Hopkinson, W.D. Man, P.R. Kemp, and M.I. Polkey, *Klotho and smoking--An interplay influencing the skeletal muscle function deficits that occur in COPD*. Respir Med, 2016. **113**: p. 50-6.
22. Vaanholt, L.M., A. Milne, Y. Zheng, C. Hambly, S.E. Mitchell, T.G. Valencak, D.B. Allison, and J.R. Speakman, *Oxidative costs of reproduction: Oxidative stress in mice fed standard and low antioxidant diets*. Physiol Behav, 2016. **154**: p. 1-7.
23. Takeda, K., N. Miyahara, S. Matsubara, C. Taube, K. Kitamura, A. Hirano, M. Tanimoto, and E.W. Gelfand, *Immunomodulatory Effects of Ambroxol on Airway Hyperresponsiveness and Inflammation*. Immune Netw, 2016. **16**(3): p. 165-75.
24. Peters, B., C. Ballmann, G. McGinnis, E. Epstein, H. Hyatt, D. Slivka, J. Cuddy, W. Hailes, C. Dumke, B. Ruby, and J. Quindry, *Graded hypoxia and blood oxidative stress during exercise recovery*. J Sports Sci, 2016. **34**(1): p. 56-66.
25. Kujawska, M., M. Ewertowska, E. Ignatowicz, T. Adamska, H. Szaefer, M. Zielinska-Dawidziak, D. Piasecka-Kwiatkowska, and J. Jodynis-Liebert, *Evaluation of Safety of Iron-Fortified Soybean Sprouts, a Potential Component of Functional Food, in Rat*. Plant Foods Hum Nutr, 2016. **71**(1): p. 13-8.
26. Kujawska, M., M. Ewertowska, E. Ignatowicz, T. Adamska, H. Szaefer, A. Gramza-Michalowska, J. Korczak, and J. Jodynis-Liebert, *Evaluation of Safety and Antioxidant Activity of Yellow Tea (Camellia sinensis) Extract for Application in Food*. J Med Food, 2016. **19**(3): p. 330-6.
27. Kujawska, M., M. Ewertowska, T. Adamska, E. Ignatowicz, A. Gramza-Michalowska, and J. Jodynis-Liebert, *Protective effect of yellow tea extract on N-nitrosodiethylamine-induced liver carcinogenesis*. Pharm Biol, 2016. **54**(9): p. 1891-900.
28. Jothery, A.H., L.M. Vaanholt, N. Mody, A. Arnous, J. Lykkesfeldt, L. Bunger, W.G. Hill, S.E. Mitchell, D.B. Allison, and J.R. Speakman, *Oxidative costs of reproduction in mouse strains selected for different levels of food intake and which differ in reproductive performance*. Sci Rep, 2016. **6**: p. 36353.
29. Haddouche, M., W. Meziane, Z. Hadjidj, N. Mesli, and M. Aribi, *Clinical association of baseline levels of conjugated dienes in low-density lipoprotein and nitric oxide with aggressive B-cell non-Hodgkin lymphoma and their relationship with immunoglobulins and Th1-to-Th2 ratio*. J Blood Med, 2016. **7**: p. 111-9.

30. Hopps, E., R. Lo Presti, M. Montana, B. Canino, V. Calandrino, and G. Caimi, *Analysis of the correlations between oxidative stress, gelatinases and their tissue inhibitors in the human subjects with obstructive sleep apnea syndrome*. *J Physiol Pharmacol*, 2015. **66**(6): p. 803-10.
31. Tzounakas, V.L., H.T. Georgatzakou, A.G. Kriebardis, E.G. Papageorgiou, K.E. Stamoulis, L.E. Foudoulaki-Paparizos, M.H. Antonelou, and I.S. Papassideri, *Uric acid variation among regular blood donors is indicative of red blood cell susceptibility to storage lesion markers: A new hypothesis tested*. *Transfusion*, 2015. **55**(11): p. 2659-71.
32. Golokhvast, K., T. Vitkina, T. Gvozdenko, V. Kolosov, V. Yankova, E. Kondratieva, A. Gorkavaya, A. Nazarenko, V. Chaika, T. Romanova, A. Karabtsov, J. Perelman, P. Kiku, and A. Tsatsakis, *Impact of Atmospheric Microparticles on the Development of Oxidative Stress in Healthy City/Industrial Seaport Residents*. *Oxid Med Cell Longev*, 2015. **2015**: p. 412173.
33. Palta, P., S.L. Szanton, R.D. Semba, R.J. Thorpe, R. Varadhan, and L.P. Fried, *Financial strain is associated with increased oxidative stress levels: the Women's Health and Aging Studies*. *Geriatr Nurs*, 2015. **36**(2 Suppl): p. S33-7.
34. Zahzeh, M.R., B. Loukidi, W. Meziane, M. Haddouche, N. Mesli, Z. Zouaoui, and M. Aribi, *Relationship between NADPH and Th1/Th2 ratio in patients with non-Hodgkin lymphoma who have been exposed to pesticides*. *J Blood Med*, 2015. **6**: p. 99-107.
35. Wilkie-Grantham, R.P., N.J. Magon, D.T. Harwood, A.J. Kettle, M.C. Vissers, C.C. Winterbourn, and M.B. Hampton, *Myeloperoxidase-dependent lipid peroxidation promotes the oxidative modification of cytosolic proteins in phagocytic neutrophils*. *J Biol Chem*, 2015. **290**(15): p. 9896-905.
36. Mitchell, S.E., C. Delville, P. Konstantopedos, J. Hurst, D. Derous, C. Green, L. Chen, J.J. Han, Y. Wang, D.E. Promislow, D. Lusseau, A. Douglas, and J.R. Speakman, *The effects of graded levels of calorie restriction: II. Impact of short term calorie and protein restriction on circulating hormone levels, glucose homeostasis and oxidative stress in male C57BL/6 mice*. *Oncotarget*, 2015. **6**(27): p. 23213-37.
37. Krayzler, E. and R.M. Nagler, *Carbonyl levels and survival rates in oral cancer cells exposed to cigarette smoke*. *Anticancer Res*, 2015. **35**(4): p. 1961-5.
38. Kliszczewicz, B., C.J. Quindry, L.D. Blessing, D.G. Oliver, R.M. Esco, and J.K. Taylor, *Acute Exercise and Oxidative Stress: CrossFit() vs. Treadmill Bout*. *J Hum Kinet*, 2015. **47**: p. 81-90.
39. Dare, A.J., A. Logan, T.A. Prime, S. Rogatti, M. Goddard, E.M. Bolton, J.A. Bradley, G.J. Pettigrew, M.P. Murphy, and K. Saeb-Parsy, *The mitochondria-targeted anti-oxidant MitoQ decreases ischemia-reperfusion injury in a murine syngeneic heart transplant model*. *J Heart Lung Transplant*, 2015. **34**(11): p. 1471-80.
40. Dare, A.J., E.A. Bolton, G.J. Pettigrew, J.A. Bradley, K. Saeb-Parsy, and M.P. Murphy, *Protection against renal ischemia-reperfusion injury in vivo by the mitochondria targeted antioxidant MitoQ*. *Redox Biol*, 2015. **5**: p. 163-8.
41. Chao, P.C., M.C. Yin, and M.C. Mong, *Anti-apoptotic and anti-glycative effects of asiatic acid in the brain of D-galactose treated mice*. *Food Funct*, 2015. **6**(2): p. 542-8.
42. Kobayashi, Y., A. Nakatsuji, W. Aoi, S. Wada, M. Kuwahata, and Y. Kido, *Intense exercise increases protein oxidation in spleen and liver of mice*. *Nutr Metab Insights*, 2014. **7**: p. 1-6.
43. Hopps, E., R. Lo Presti, M. Montana, B. Canino, M.R. Averna, and G. Caimi, *Study of the correlations among some parameters of the oxidative status, gelatinases, and their inhibitors in a group of subjects with metabolic syndrome*. *Mediators Inflamm*, 2014. **2014**: p. 510619.
44. Caro, A.A., M. Bell, S. Ejiófor, G. Zurcher, D.R. Petersen, and M.J. Ronis, *N-acetylcysteine inhibits the up-regulation of mitochondrial biogenesis genes in livers from rats fed ethanol chronically*. *Alcohol Clin Exp Res*, 2014. **38**(12): p. 2896-906.
45. Campbell, A., E. Sharman, and S.C. Bondy, *Age-related differences in the response of the brain to dietary melatonin*. *Age (Dordr)*, 2014. **36**(1): p. 49-55.
46. El-Beshbishy, H.A., R.A. Maria, and F.A. Bardi, *Biochemical and C-reactive protein alterations in myocardial infarction periodontitis patients*. *Am J Med Sci*, 2014. **348**(3): p. 181-5.

47. Ballmann, C., G. McGinnis, B. Peters, D. Slivka, J. Cuddy, W. Hailes, C. Dumke, B. Ruby, and J. Quindry, *Exercise-induced oxidative stress and hypoxic exercise recovery*. Eur J Appl Physiol, 2014. **114**(4): p. 725-33.
48. Shvedova, A.A., E.R. Kisin, A.R. Murray, A. Mouithys-Mickalad, K. Stadler, R.P. Mason, and M. Kadiiska, *ESR evidence for in vivo formation of free radicals in tissue of mice exposed to single-walled carbon nanotubes*. Free Radic Biol Med, 2014. **73**: p. 154-65.
49. Shahar, E., U. Attias, D. Savulescu, J. Genizin, M. Gavish, and R. Nagler, *Oxidative stress, metalloproteinase and LDH in children with intractable and non-intractable epilepsy as reflected in salivary analysis*. Epilepsy Res, 2014. **108**(1): p. 117-24.
50. McGinnis, G., B. Kliszczewicz, M. Barberio, C. Ballmann, B. Peters, D. Slivka, C. Dumke, J. Cuddy, W. Hailes, B. Ruby, and J. Quindry, *Acute hypoxia and exercise-induced blood oxidative stress*. Int J Sport Nutr Exerc Metab, 2014. **24**(6): p. 684-93.
51. Chouchani, E.T., C. Methner, G. Buonincontri, C.H. Hu, A. Logan, S.J. Sawiak, M.P. Murphy, and T. Krieg, *Complex I deficiency due to selective loss of Ndufs4 in the mouse heart results in severe hypertrophic cardiomyopathy*. PLoS One, 2014. **9**(4): p. e94157.
52. Klein, R., C.E. Myers, K.J. Cruickshanks, R.E. Gangnon, L.G. Danforth, T.A. Sivakumaran, S.K. Iyengar, M.Y. Tsai, and B.E. Klein, *Markers of inflammation, oxidative stress, and endothelial dysfunction and the 20-year cumulative incidence of early age-related macular degeneration: the Beaver Dam Eye Study*. JAMA Ophthalmol, 2014. **132**(4): p. 446-55.
53. Yanamala, N., M.T. Farcas, M.K. Hatfield, E.R. Kisin, V.E. Kagan, C.L. Geraci, and A.A. Shvedova, *In Vivo Evaluation of the Pulmonary Toxicity of Cellulose Nanocrystals: A Renewable and Sustainable Nanomaterial of the Future*. ACS Sustain Chem Eng, 2014. **2**(7): p. 1691-1698.
54. Wang, Z.H., *Anti-glycative effects of asiatic acid in human keratinocyte cells*. Biomedicine (Taipei), 2014. **4**: p. 19.
55. Kujawska, M., M. Ewertowska, T. Adamska, C. Sadowski, E. Ignatowicz, and J. Jodynis-Liebert, *Antioxidant effect of lycopene-enriched tomato paste on N-nitrosodiethylamine-induced oxidative stress in rats*. J Physiol Biochem, 2014. **70**(4): p. 981-90.
56. Zhang, N., H.Y. Shu, T. Huang, Q.L. Zhang, D. Li, G.Q. Zhang, X.Y. Peng, C.F. Liu, W.F. Luo, and L.F. Hu, *Nrf2 signaling contributes to the neuroprotective effects of urate against 6-OHDA toxicity*. PLoS One, 2014. **9**(6): p. e100286.
57. Solesio, M.E., T.A. Prime, A. Logan, M.P. Murphy, M. Del Mar Arroyo-Jimenez, J. Jordan, and M.F. Galindo, *The mitochondria-targeted anti-oxidant MitoQ reduces aspects of mitochondrial fission in the 6-OHDA cell model of Parkinson's disease*. Biochim Biophys Acta, 2013. **1832**(1): p. 174-82.
58. Fletcher, Q.E., C. Selman, S. Boutin, A.G. McAdam, S.B. Woods, A.Y. Seo, C. Leeuwenburgh, J.R. Speakman, and M.M. Humphries, *Oxidative damage increases with reproductive energy expenditure and is reduced by food-supplementation*. Evolution, 2013. **67**(5): p. 1527-36.
59. Quindry, J., L. Miller, G. McGinnis, B. Kliszczewicz, D. Slivka, C. Dumke, J. Cuddy, and B. Ruby, *Environmental temperature and exercise-induced blood oxidative stress*. Int J Sport Nutr Exerc Metab, 2013. **23**(2): p. 128-36.
60. Zafrilla, P., M. Losada, A. Perez, G. Caravaca, and J. Mulero, *Biomarkers of oxidative stress in patients with wet age related macular degeneration*. J Nutr Health Aging, 2013. **17**(3): p. 219-22.
61. Caimi, G., E. Hopps, D. Noto, B. Canino, M. Montana, D. Lucido, R. Lo Presti, and M.R. Averna, *Protein oxidation in a group of subjects with metabolic syndrome*. Diabetes Metab Syndr, 2013. **7**(1): p. 38-41.
62. Hamzany, Y., R. Feinmesser, T. Shpitzer, A. Mizrachi, O. Hilly, R. Hod, G. Bahar, I. Otradnov, M. Gavish, and R.M. Nagler, *Is human saliva an indicator of the adverse health effects of using mobile phones?* Antioxid Redox Signal, 2013. **18**(6): p. 622-7.

63. Kujawska, M., E. Ignatowicz, M. Ewertowska, T. Adamska, J. Markowski, and J. Jodynis-Liebert, *Attenuation of KBrO₃-induced renal and hepatic toxicity by cloudy apple juice in rat*. *Phytother Res*, 2013. **27**(8): p. 1214-9.
64. Kim, M.J., J.Y. Chung, J.H. Kim, and H.K. Kwak, *Effects of cranberry powder on biomarkers of oxidative stress and glucose control in db/db mice*. *Nutr Res Pract*, 2013. **7**(6): p. 430-8.
65. Shvedova, A.A., N. Yanamala, A.R. Murray, E.R. Kisin, T. Khaliullin, M.K. Hatfield, A.V. Tkach, Q.T. Krantz, D. Nash, C. King, M. Ian Gilmour, and S.H. Gavett, *Oxidative stress, inflammatory biomarkers, and toxicity in mouse lung and liver after inhalation exposure to 100% biodiesel or petroleum diesel emissions*. *J Toxicol Environ Health A*, 2013. **76**(15): p. 907-21.
66. Miller, L.E., G.R. McGinnis, B. Kliszczewicz, D. Slivka, W. Hailes, J. Cuddy, C. Dumke, B. Ruby, and J.C. Quindry, *Blood oxidative-stress markers during a high-altitude trek*. *Int J Sport Nutr Exerc Metab*, 2013. **23**(1): p. 65-72.
67. Tanabe, N., Y. Hoshino, S. Marumo, H. Kiyokawa, S. Sato, D. Kinose, K. Uno, S. Muro, T. Hirai, J. Yodoi, and M. Mishima, *Thioredoxin-1 protects against neutrophilic inflammation and emphysema progression in a mouse model of chronic obstructive pulmonary disease exacerbation*. *PLoS One*, 2013. **8**(11): p. e79016.
68. Kumar, V., T. Kleffmann, M.B. Hampton, M.B. Cannell, and C.C. Winterbourn, *Redox proteomics of thiol proteins in mouse heart during ischemia/reperfusion using ICAT reagents and mass spectrometry*. *Free Radic Biol Med*, 2013. **58**: p. 109-17.
69. Nakhaee, A., F. Shahabizadeh, and M. Erfani, *Protein and lipid oxidative damage in healthy students during and after exam stress*. *Physiol Behav*, 2013. **118**: p. 118-21.
70. Yanamala, N., M.K. Hatfield, M.T. Farcas, D. Schwegler-Berry, J.A. Hummer, M.R. Shurin, M.E. Birch, D.W. Gutkin, E. Kisin, V.E. Kagan, A.D. Bugarski, and A.A. Shvedova, *Biodiesel versus diesel exposure: enhanced pulmonary inflammation, oxidative stress, and differential morphological changes in the mouse lung*. *Toxicol Appl Pharmacol*, 2013. **272**(2): p. 373-83.
71. McAnulty, L.S., L.E. Miller, P.A. Hosick, A.C. Utter, J.C. Quindry, and S.R. McAnulty, *Effect of resveratrol and quercetin supplementation on redox status and inflammation after exercise*. *Appl Physiol Nutr Metab*, 2013. **38**(7): p. 760-5.
72. Iwasa, M., W. Aoi, K. Mune, H. Yamauchi, K. Furuta, S. Sasaki, K. Takeda, K. Harada, S. Wada, Y. Nakamura, K. Sato, and A. Higashi, *Fermented milk improves glucose metabolism in exercise-induced muscle damage in young healthy men*. *Nutr J*, 2013. **12**: p. 83.
73. Tsai, S.J. and M.C. Yin, *Anti-oxidative, anti-glycative and anti-apoptotic effects of oleanolic acid in brain of mice treated by D-galactose*. *Eur J Pharmacol*, 2012. **689**(1-3): p. 81-8.
74. Trzeciak, A.R., J.G. Mohanty, K.D. Jacob, J. Barnes, N. Ejiogu, A. Lohani, A.B. Zonderman, J.M. Rifkind, and M.K. Evans, *Oxidative damage to DNA and single strand break repair capacity: relationship to other measures of oxidative stress in a population cohort*. *Mutat Res*, 2012. **736**(1-2): p. 93-103.
75. Obasi, C.N., K.J. Cruickshanks, D.M. Nondahl, B.E. Klein, R. Klein, F.J. Nieto, A. Shankar, M.E. Fischer, M.Y. Tsai, and R. Chappell, *Association of Biomarkers for Inflammation, Endothelial Dysfunction and Oxidative Stress with Cognitive Impairment. The Epidemiology of Hearing Loss Study (EHLS)*. *Oxid Antioxid Med Sci*, 2012. **1**(3): p. 169-173.
76. Murray, A.R., E.R. Kisin, A.V. Tkach, N. Yanamala, R. Mercer, S.H. Young, B. Fadeel, V.E. Kagan, and A.A. Shvedova, *Factoring-in agglomeration of carbon nanotubes and nanofibers for better prediction of their toxicity versus asbestos*. *Part Fibre Toxicol*, 2012. **9**: p. 10.
77. Lee, W.H., A. Kumar, A. Rani, J. Herrera, J. Xu, S. Someya, and T.C. Foster, *Influence of viral vector-mediated delivery of superoxide dismutase and catalase to the hippocampus on spatial learning and memory during aging*. *Antioxid Redox Signal*, 2012. **16**(4): p. 339-50.
78. Haller, S.T., D.J. Kennedy, A. Shidyak, G.V. Budny, D. Malhotra, O.V. Fedorova, J.I. Shapiro, and A.Y. Bagrov, *Monoclonal antibody against marinobufagenin reverses cardiac fibrosis in rats with chronic renal failure*. *Am J Hypertens*, 2012. **25**(6): p. 690-6.

79. George, S.K., Y. Jiao, C.E. Bishop, and B. Lu, *Oxidative stress is involved in age-dependent spermatogenic damage of Imp21 mutant mice*. Free Radic Biol Med, 2012. **52**(11-12): p. 2223-33.
80. Brioschi, M., G. Polvani, P. Fratto, A. Parolari, P. Agostoni, E. Tremoli, and C. Banfi, *Redox proteomics identification of oxidatively modified myocardial proteins in human heart failure: implications for protein function*. PLoS One, 2012. **7**(5): p. e35841.
81. Baraibar, M.A., A.G. Barbeito, B.B. Muhoberac, and R. Vidal, *A mutant light-chain ferritin that causes neurodegeneration has enhanced propensity toward oxidative damage*. Free Radic Biol Med, 2012. **52**(9): p. 1692-7.
82. Nain, S. and J.E. Smits, *Pathological, immunological and biochemical markers of subchronic arsenic toxicity in rats*. Environ Toxicol, 2012. **27**(4): p. 244-54.
83. Hunter, D.C., R. Brown, T. Green, C. Thomson, M. Skeaff, S. Williams, J.M. Todd, C.E. Lister, T. McGhie, J. Zhang, H. Martin, P. Rippon, R. Stanley, and M.A. Skinner, *Changes in markers of inflammation, antioxidant capacity and oxidative stress in smokers following consumption of milk, and milk supplemented with fruit and vegetable extracts and vitamin C*. Int J Food Sci Nutr, 2012. **63**(1): p. 90-102.
84. Quindry, J.C., L. Miller, G. McGinnis, B. Kliszczewicz, J.M. Irwin, M. Landram, Z. Urbiztondo, G. Nanayakkara, and R. Amin, *Ischemia reperfusion injury, KATP channels, and exercise-induced cardioprotection against apoptosis*. J Appl Physiol (1985), 2012. **113**(3): p. 498-506.
85. Gharib, S.A., A. Khalyfa, A. Abdelkarim, V. Ramesh, M. Buazza, N. Kaushal, B. Bhushan, and D. Gozal, *Intermittent hypoxia activates temporally coordinated transcriptional programs in visceral adipose tissue*. J Mol Med (Berl), 2012. **90**(4): p. 435-45.
86. Tomaru, U., S. Takahashi, A. Ishizu, Y. Miyatake, A. Gohda, S. Suzuki, A. Ono, J. Ohara, T. Baba, S. Murata, K. Tanaka, and M. Kasahara, *Decreased proteasomal activity causes age-related phenotypes and promotes the development of metabolic abnormalities*. Am J Pathol, 2012. **180**(3): p. 963-72.
87. Tsai, S.J. and M.C. Yin, *Anti-glycative and anti-inflammatory effects of protocatechuic acid in brain of mice treated by D-galactose*. Food Chem Toxicol, 2012. **50**(9): p. 3198-205.
88. Hineno, A., K. Kaneko, K. Yoshida, and S. Ikeda, *Ceruloplasmin protects against rotenone-induced oxidative stress and neurotoxicity*. Neurochem Res, 2011. **36**(11): p. 2127-35.
89. Hosgood, S.A., I.H. Mohamed, and M.L. Nicholson, *The two layer method does not improve the preservation of porcine kidneys*. Med Sci Monit, 2011. **17**(1): p. BR27-33.
90. Kujawska, M., E. Ignatowicz, M. Ewertowska, J. Oszmianski, and J. Jodynys-Liebert, *Protective effect of chokeberry on chemical-induced oxidative stress in rat*. Hum Exp Toxicol, 2011. **30**(3): p. 199-208.
91. Ramanathan, L. and J.M. Siegel, *Sleep deprivation under sustained hypoxia protects against oxidative stress*. Free Radic Biol Med, 2011. **51**(10): p. 1842-8.
92. Kolmakova, E.V., S.T. Haller, D.J. Kennedy, A.N. Isachkina, G.V. Budny, E.V. Frolova, G. Piecha, E.R. Nikitina, D. Malhotra, O.V. Fedorova, J.I. Shapiro, and A.Y. Bagrov, *Endogenous cardiotonic steroids in chronic renal failure*. Nephrol Dial Transplant, 2011. **26**(9): p. 2912-9.
93. Moya-Olano, L., H.M. Milne, J.M. Robinson, J.V. Hill, C.M. Frampton, H.F. Abbott, R. Turner, A.J. Kettle, and Z.H. Endre, *Trientine and renin-angiotensin system blockade ameliorate progression of glomerular morphology in hypertensive experimental diabetic nephropathy*. Pathol Int, 2011. **61**(11): p. 652-61.
94. Haddouche, M., M. Aribi, S. Moulessehoul, M.C. Smahi, M. Lammani, and M. Benyoucef, *Alteration of antioxidant defense status precedes humoral immune response abnormalities in macrosomia*. Med Sci Monit, 2011. **17**(11): p. CR650-656.
95. Sigala, I., P. Zacharatos, D. Toumpanakis, T. Michailidou, O. Noussia, S. Theocharis, C. Roussos, A. Papapetropoulos, and T. Vassilakopoulos, *MAPKs and NF-kappaB differentially regulate cytokine expression in the diaphragm in response to resistive breathing: the role of oxidative stress*. Am J Physiol Regul Integr Comp Physiol, 2011. **300**(5): p. R1152-62.

96. Kujawska, M., E. Ignatowicz, M. Ewertowska, J. Markowski, and J. Jodynis-Liebert, *Cloudy apple juice protects against chemical-induced oxidative stress in rat*. Eur J Nutr, 2011. **50**(1): p. 53-60.
97. Quindry, J., L. Miller, G. McGinnis, M. Irwin, C. Dumke, M. Magal, N.T. Triplett, J. McBride, and Z. Urbiztondo, *Muscle-fiber type and blood oxidative stress after eccentric exercise*. Int J Sport Nutr Exerc Metab, 2011. **21**(6): p. 462-70.
98. Goldfarb, A.H., R.S. Garten, C. Cho, P.D. Chee, and L.A. Chambers, *Effects of a fruit/berry/vegetable supplement on muscle function and oxidative stress*. Med Sci Sports Exerc, 2011. **43**(3): p. 501-8.
99. Jurado-Gamez, B., M.C. Fernandez-Marin, J.L. Gomez-Chaparro, L. Munoz-Cabrera, J. Lopez-Barea, F. Perez-Jimenez, and J. Lopez-Miranda, *Relationship of oxidative stress and endothelial dysfunction in sleep apnoea*. Eur Respir J, 2011. **37**(4): p. 873-9.
100. Tsai, S.J., C.P. Chiu, H.T. Yang, and M.C. Yin, *s-Allyl cysteine, s-ethyl cysteine, and s-propyl cysteine alleviate beta-amyloid, glycation, and oxidative injury in brain of mice treated by D-galactose*. J Agric Food Chem, 2011. **59**(11): p. 6319-26.
101. Gentile, C.L., A.M. Nivala, J.C. Gonzales, K.T. Pfaffenbach, D. Wang, Y. Wei, H. Jiang, D.J. Orlicky, D.R. Petersen, M.J. Pagliassotti, and K.N. Maclean, *Experimental evidence for therapeutic potential of taurine in the treatment of nonalcoholic fatty liver disease*. Am J Physiol Regul Integr Comp Physiol, 2011. **301**(6): p. R1710-22.
102. Rahmanto, A.S., P.E. Morgan, C.L. Hawkins, and M.J. Davies, *Cellular effects of photogenerated oxidants and long-lived, reactive, hydroperoxide photoproducts*. Free Radic Biol Med, 2010. **49**(10): p. 1505-15.
103. Giacco, R., G. Clemente, D. Cipriano, D. Luongo, D. Viscovo, L. Patti, L. Di Marino, A. Giacco, D. Naviglio, M.A. Bianchi, R. Ciati, F. Brighenti, A.A. Rivellese, and G. Riccardi, *Effects of the regular consumption of wholemeal wheat foods on cardiovascular risk factors in healthy people*. Nutr Metab Cardiovasc Dis, 2010. **20**(3): p. 186-94.
104. Rodriguez-Cuenca, S., H.M. Cocheme, A. Logan, I. Abakumova, T.A. Prime, C. Rose, A. Vidal-Puig, A.C. Smith, D.C. Rubinsztein, I.M. Fearnley, B.A. Jones, S. Pope, S.J. Heales, B.Y. Lam, S.G. Neogi, I. McFarlane, A.M. James, R.A. Smith, and M.P. Murphy, *Consequences of long-term oral administration of the mitochondria-targeted antioxidant MitoQ to wild-type mice*. Free Radic Biol Med, 2010. **48**(1): p. 161-72.
105. Bernal, A.B., M.H. Vickers, M.B. Hampton, R.A. Poynton, and D.M. Sloboda, *Maternal undernutrition significantly impacts ovarian follicle number and increases ovarian oxidative stress in adult rat offspring*. PLoS One, 2010. **5**(12): p. e15558.
106. Burgos Alves, M.I., F. Aviles Plaza, R. Martinez-Tomas, M. Sanchez-Campillo, E. Larque, F. Perez-Llamas, P. Martinez Hernandez, and S. Parra Pallares, *Oxidized LDL and its correlation with lipid profile and oxidative stress biomarkers in young healthy Spanish subjects*. J Physiol Biochem, 2010. **66**(3): p. 221-7.
107. Kremer, R., L.A. Best, D. Savulescu, M. Gavish, and R.M. Nagler, *Pleural fluid analysis of lung cancer vs benign inflammatory disease patients*. Br J Cancer, 2010. **102**(7): p. 1180-4.
108. Paton, L.N., T.J. Mocatta, A.M. Richards, and C.C. Winterbourn, *Increased thrombin-induced polymerization of fibrinogen associated with high protein carbonyl levels in plasma from patients post myocardial infarction*. Free Radic Biol Med, 2010. **48**(2): p. 223-9.
109. Quindry, J.C., L. Schreiber, P. Hosick, J. Wrieden, J.M. Irwin, and E. Hoyt, *Mitochondrial KATP channel inhibition blunts arrhythmia protection in ischemic exercised hearts*. Am J Physiol Heart Circ Physiol, 2010. **299**(1): p. H175-83.
110. Migrino, R.Q., P. Hari, D.D. Gutterman, M. Bright, S. Truran, B. Schlundt, and S.A. Phillips, *Systemic and microvascular oxidative stress induced by light chain amyloidosis*. Int J Cardiol, 2010. **145**(1): p. 67-8.

111. Mittal, A., M. Middleditch, K. Ruggiero, B. Loveday, B. Delahunt, M. Jullig, G.J. Cooper, J.A. Windsor, and A.R. Phillips, *Changes in the mesenteric lymph proteome induced by hemorrhagic shock*. Shock, 2010. **34**(2): p. 140-9.
112. Xu, J., A.Y. Seo, D.A. Vorobyeva, C.S. Carter, S.D. Anton, A.M. Lezza, and C. Leeuwenburgh, *Beneficial effects of a Q-ter based nutritional mixture on functional performance, mitochondrial function, and oxidative stress in rats*. PLoS One, 2010. **5**(5): p. e10572.
113. Whidden, M.A., A.J. Smuder, M. Wu, M.B. Hudson, W.B. Nelson, and S.K. Powers, *Oxidative stress is required for mechanical ventilation-induced protease activation in the diaphragm*. J Appl Physiol (1985), 2010. **108**(5): p. 1376-82.
114. Takahashi, K., R. Tatsunami, T. Oba, and Y. Tampo, *Buthionine sulfoximine promotes methylglyoxal-induced apoptotic cell death and oxidative stress in endothelial cells*. Biol Pharm Bull, 2010. **33**(4): p. 556-60.
115. Semba, R.D., K.V. Patel, L. Ferrucci, K. Sun, C.N. Roy, J.M. Guralnik, and L.P. Fried, *Serum antioxidants and inflammation predict red cell distribution width in older women: the Women's Health and Aging Study I*. Clin Nutr, 2010. **29**(5): p. 600-4.
116. Rascon, B. and J.F. Harrison, *Lifespan and oxidative stress show a non-linear response to atmospheric oxygen in Drosophila*. J Exp Biol, 2010. **213**(Pt 20): p. 3441-8.
117. Patel, B.P., A. Safdar, S. Raha, M.A. Tarnopolsky, and M.J. Hamadeh, *Caloric restriction shortens lifespan through an increase in lipid peroxidation, inflammation and apoptosis in the G93A mouse, an animal model of ALS*. PLoS One, 2010. **5**(2): p. e9386.
118. Nagler, R., D. Savulescu, E. Krayzler, S. Leschiner, L. Veenman, and M. Gavish, *Cigarette Smoke Decreases Salivary 18 kDa Translocator Protein Binding Affinity - in Association with Oxidative Stress*. Curr Med Chem, 2010. **17**(23): p. 2539-46.
119. Mohanty, J.G., S. Bhamidipaty, M.K. Evans, and J.M. Rifkind, *A fluorimetric semi-microplate format assay of protein carbonyls in blood plasma*. Anal Biochem, 2010. **400**(2): p. 289-94.
120. McClung, J.M., K.C. Deruisseau, M.A. Whidden, H. Van Remmen, A. Richardson, W. Song, I.S. Vrabas, and S.K. Powers, *Overexpression of antioxidant enzymes in diaphragm muscle does not alter contraction-induced fatigue or recovery*. Exp Physiol, 2010. **95**(1): p. 222-31.
121. Kennett, E.C., M.D. Rees, E. Malle, A. Hammer, J.M. Whitelock, and M.J. Davies, *Peroxynitrite modifies the structure and function of the extracellular matrix proteoglycan perlecan by reaction with both the protein core and the heparan sulfate chains*. Free Radic Biol Med, 2010. **49**(2): p. 282-93.
122. Hershfield, M.S., L.J. Roberts, 2nd, N.J. Ganson, S.J. Kelly, I. Santisteban, E. Scarlett, D. Jagers, and J.S. Sundry, *Treating gout with pegloticase, a PEGylated urate oxidase, provides insight into the importance of uric acid as an antioxidant in vivo*. Proc Natl Acad Sci U S A, 2010. **107**(32): p. 14351-6.
123. Gelosa, P., C. Banfi, A. Gianella, M. Brioschi, A. Pignieri, E. Nobili, L. Castiglioni, M. Cimino, E. Tremoli, and L. Sironi, *Peroxisome proliferator-activated receptor {alpha} agonism prevents renal damage and the oxidative stress and inflammatory processes affecting the brains of stroke-prone rats*. J Pharmacol Exp Ther, 2010. **335**(2): p. 324-31.
124. Depke, M., L. Steil, G. Domanska, U. Volker, C. Schutt, and C. Kiank, *Altered hepatic mRNA expression of immune response and apoptosis-associated genes after acute and chronic psychological stress in mice*. Mol Immunol, 2009. **46**(15): p. 3018-28.
125. McClung, J.M., D. Van Gammeren, M.A. Whidden, D.J. Falk, A.N. Kavazis, M.B. Hudson, G. Gayan-Ramirez, M. Decramer, K.C. DeRuisseau, and S.K. Powers, *Apocynin attenuates diaphragm oxidative stress and protease activation during prolonged mechanical ventilation*. Crit Care Med, 2009. **37**(4): p. 1373-9.
126. Cheah, F.C., J.J. Pillow, B.W. Kramer, G.R. Polglase, I. Nitsos, J.P. Newnham, A.H. Jobe, and S.G. Kallapur, *Airway inflammatory cell responses to intra-amniotic lipopolysaccharide in a sheep model of chorioamnionitis*. Am J Physiol Lung Cell Mol Physiol, 2009. **296**(3): p. L384-93.

127. Mazurek, B., H. Haupt, A.J. Szczepek, J. Sandmann, J. Gross, B.F. Klapp, H. Kiesewetter, U. Kalus, T. Stover, and P.P. Caffier, *Evaluation of vardenafil for the treatment of subjective tinnitus: a controlled pilot study*. J Negat Results Biomed, 2009. **8**: p. 3.
128. Whidden, M.A., J.M. McClung, D.J. Falk, M.B. Hudson, A.J. Smuder, W.B. Nelson, and S.K. Powers, *Xanthine oxidase contributes to mechanical ventilation-induced diaphragmatic oxidative stress and contractile dysfunction*. J Appl Physiol (1985), 2009. **106**(2): p. 385-94.
129. Korolainen, M.A. and T. Pirttila, *Cerebrospinal fluid, serum and plasma protein oxidation in Alzheimer's disease*. Acta Neurol Scand, 2009. **119**(1): p. 32-8.
130. Okamura, D.M., S. Pennathur, K. Pasichnyk, J.M. Lopez-Guisa, S. Collins, M. Febbraio, J. Heinecke, and A.A. Eddy, *CD36 regulates oxidative stress and inflammation in hypercholesterolemic CKD*. J Am Soc Nephrol, 2009. **20**(3): p. 495-505.
131. Tozuka, Y., E. Wada, and K. Wada, *Diet-induced obesity in female mice leads to peroxidized lipid accumulations and impairment of hippocampal neurogenesis during the early life of their offspring*. FASEB J, 2009. **23**(6): p. 1920-34.
132. Verhaeghe, J., R. van Bree, and E. Van Herck, *Oxidative stress after antenatal betamethasone: acute downregulation of glutathione peroxidase-3*. Early Hum Dev, 2009. **85**(12): p. 767-71.
133. Konishi, I., Y. Hiasa, S. Shigematsu, M. Hirooka, S. Furukawa, M. Abe, B. Matsuura, K. Michitaka, N. Horiike, and M. Onji, *Diabetes pattern on the 75 g oral glucose tolerance test is a risk factor for hepatocellular carcinoma in patients with hepatitis C virus*. Liver Int, 2009. **29**(8): p. 1194-201.
134. Torrens, C., C.J. Kelsall, L.A. Hopkins, F.W. Anthony, N.P. Curzen, and M.A. Hanson, *Atorvastatin restores endothelial function in offspring of protein-restricted rats in a cholesterol-independent manner*. Hypertension, 2009. **53**(4): p. 661-7.
135. Staib, J.L., N. Tumer, and S.K. Powers, *Increased temperature and protein oxidation lead to HSP72 mRNA and protein accumulation in the in vivo exercised rat heart*. Exp Physiol, 2009. **94**(1): p. 71-80.
136. Shpitzer, T., Y. Hamzany, G. Bahar, R. Feinmesser, D. Savulescu, I. Borovoi, M. Gavish, and R.M. Nagler, *Salivary analysis of oral cancer biomarkers*. Br J Cancer, 2009. **101**(7): p. 1194-8.
137. Saito, S., T. Fujiwara, T. Matsunaga, K. Minagawa, K. Fukui, I. Fukuda, T. Osanai, and K. Okumura, *Increased adiponectin synthesis in the visceral adipose tissue in men with coronary artery disease treated with pravastatin: a role of the attenuation of oxidative stress*. Atherosclerosis, 2008. **199**(2): p. 378-83.
138. Cox, A.G., J.M. Pullar, G. Hughes, E.C. Ledgerwood, and M.B. Hampton, *Oxidation of mitochondrial peroxiredoxin 3 during the initiation of receptor-mediated apoptosis*. Free Radic Biol Med, 2008. **44**(6): p. 1001-9.
139. Wadsworth, T.L., J.A. Bishop, A.S. Pappu, R.L. Woltjer, and J.F. Quinn, *Evaluation of coenzyme Q as an antioxidant strategy for Alzheimer's disease*. J Alzheimers Dis, 2008. **14**(2): p. 225-34.
140. Valtuena, S., N. Pellegrini, L. Franzini, M.A. Bianchi, D. Ardigo, D. Del Rio, P. Piatti, F. Scazzina, I. Zavaroni, and F. Brighenti, *Food selection based on total antioxidant capacity can modify antioxidant intake, systemic inflammation, and liver function without altering markers of oxidative stress*. Am J Clin Nutr, 2008. **87**(5): p. 1290-7.
141. Tsukimori, K., T. Yoshitomi, S. Morokuma, K. Fukushima, and N. Wake, *Serum uric acid levels correlate with plasma hydrogen peroxide and protein carbonyl levels in preeclampsia*. Am J Hypertens, 2008. **21**(12): p. 1343-6.
142. Song, B., D. Scheuner, D. Ron, S. Pennathur, and R.J. Kaufman, *Chop deletion reduces oxidative stress, improves beta cell function, and promotes cell survival in multiple mouse models of diabetes*. J Clin Invest, 2008. **118**(10): p. 3378-89.

143. Quindry, J.C., S.R. McAnulty, M.B. Hudson, P. Hosick, C. Dumke, L.S. McAnulty, D. Henson, J.D. Morrow, and D. Nieman, *Oral quercetin supplementation and blood oxidative capacity in response to ultramarathon competition*. Int J Sport Nutr Exerc Metab, 2008. **18**(6): p. 601-16.
144. Mamiya, T., M. Kise, and K. Morikawa, *Ferulic acid attenuated cognitive deficits and increase in carbonyl proteins induced by buthionine-sulfoximine in mice*. Neurosci Lett, 2008. **430**(2): p. 115-8.
145. Kim, M.J., H.N. Jung, K.N. Kim, and H.K. Kwak, *Effects of cranberry powder on serum lipid profiles and biomarkers of oxidative stress in rats fed an atherogenic diet*. Nutr Res Pract, 2008. **2**(3): p. 158-64.
146. Hudson, M.B., P.A. Hosick, G.O. McCaulley, L. Schrieber, J. Wrieden, S.R. McAnulty, N.T. Triplett, J.M. McBride, and J.C. Quindry, *The effect of resistance exercise on humoral markers of oxidative stress*. Med Sci Sports Exerc, 2008. **40**(3): p. 542-8.
147. Dayhoff-Brannigan, M., L. Ferrucci, K. Sun, L.P. Fried, J. Walston, R. Varadhan, J.M. Guralnik, and R.D. Semba, *Oxidative protein damage is associated with elevated serum interleukin-6 levels among older moderately to severely disabled women living in the community*. J Gerontol A Biol Sci Med Sci, 2008. **63**(2): p. 179-83.
148. Bavis, R.W., J.M. Wenninger, B.M. Miller, E.F. Dmitrieff, E.B. Olson, Jr., G.S. Mitchell, and G.E. Bisgard, *Respiratory plasticity after perinatal hyperoxia is not prevented by antioxidant supplementation*. Respir Physiol Neurobiol, 2008. **160**(3): p. 301-12.
149. Chitcholtan, K., M.B. Hampton, and J.I. Keenan, *Outer membrane vesicles enhance the carcinogenic potential of Helicobacter pylori*. Carcinogenesis, 2008. **29**(12): p. 2400-5.
150. Banfi, C., M. Brioschi, S. Barcella, F. Veglia, P. Biglioli, E. Tremoli, and P. Agostoni, *Oxidized proteins in plasma of patients with heart failure: role in endothelial damage*. Eur J Heart Fail, 2008. **10**(3): p. 244-51.
151. Lee, Y.J., H.Y. Chung, H.K. Kwak, and S. Yoon, *The effects of A. senticosus supplementation on serum lipid profiles, biomarkers of oxidative stress, and lymphocyte DNA damage in postmenopausal women*. Biochem Biophys Res Commun, 2008. **375**(1): p. 44-8.
152. Semba, R.D., L. Ferrucci, K. Sun, J. Walston, R. Varadhan, J.M. Guralnik, and L.P. Fried, *Oxidative stress is associated with greater mortality in older women living in the community*. J Am Geriatr Soc, 2007. **55**(9): p. 1421-5.
153. Semba, R.D., L. Ferrucci, K. Sun, J. Walston, R. Varadhan, J.M. Guralnik, and L.P. Fried, *Oxidative stress and severe walking disability among older women*. Am J Med, 2007. **120**(12): p. 1084-9.
154. McClung, J.M., A.N. Kavazis, M.A. Whidden, K.C. DeRuisseau, D.J. Falk, D.S. Criswell, and S.K. Powers, *Antioxidant administration attenuates mechanical ventilation-induced rat diaphragm muscle atrophy independent of protein kinase B (PKB Akt) signalling*. J Physiol, 2007. **585**(Pt 1): p. 203-15.
155. Lykkesfeldt, J., G. Perez Trueba, H.E. Poulsen, and S. Christen, *Vitamin C deficiency in weanling guinea pigs: differential expression of oxidative stress and DNA repair in liver and brain*. British Journal of Nutrition, 2007. **98**(06).
156. Howard, C., L. Ferrucci, K. Sun, L.P. Fried, J. Walston, R. Varadhan, J.M. Guralnik, and R.D. Semba, *Oxidative protein damage is associated with poor grip strength among older women living in the community*. J Appl Physiol (1985), 2007. **103**(1): p. 17-20.
157. Gungor, N., R.W. Godschalk, D.M. Pachen, F.J. Van Schooten, and A.M. Knaapen, *Activated neutrophils inhibit nucleotide excision repair in human pulmonary epithelial cells: role of myeloperoxidase*. FASEB J, 2007. **21**(10): p. 2359-67.
158. Cox, A.G. and M.B. Hampton, *Bcl-2 over-expression promotes genomic instability by inhibiting apoptosis of cells exposed to hydrogen peroxide*. Carcinogenesis, 2007. **28**(10): p. 2166-71.

159. Chang, C.K., H.Y. Huang, H.F. Tseng, Y.D. Hsuuw, and T.K. Tso, *Interaction of vitamin E and exercise training on oxidative stress and antioxidant enzyme activities in rat skeletal muscles*. J Nutr Biochem, 2007. **18**(1): p. 39-45.
160. Bloomer, R.J., M.J. Falvo, B.K. Schilling, and W.A. Smith, *Prior exercise and antioxidant supplementation: effect on oxidative stress and muscle injury*. J Int Soc Sports Nutr, 2007. **4**: p. 9.
161. Mocatta, T.J., A.P. Pilbrow, V.A. Cameron, R. Senthilmohan, C.M. Frampton, A.M. Richards, and C.C. Winterbourn, *Plasma concentrations of myeloperoxidase predict mortality after myocardial infarction*. J Am Coll Cardiol, 2007. **49**(20): p. 1993-2000.
162. Staib, J.L., J.C. Quindry, J.P. French, D.S. Criswell, and S.K. Powers, *Increased temperature, not cardiac load, activates heat shock transcription factor 1 and heat shock protein 72 expression in the heart*. Am J Physiol Regul Integr Comp Physiol, 2007. **292**(1): p. R432-9.
163. Young, J.M., B.I. Shand, P.M. McGregor, R.S. Scott, and C.M. Frampton, *Comparative effects of enoxenol and vitamin C supplementation versus vitamin C alone on endothelial function and biochemical markers of oxidative stress and inflammation in chronic smokers*. Free Radic Res, 2006. **40**(1): p. 85-94.
164. Rodriguez-Capote, K., D. Manzanares, T. Haines, and F. Possmayer, *Reactive oxygen species inactivation of surfactant involves structural and functional alterations to surfactant proteins SP-B and SP-C*. Biophys J, 2006. **90**(8): p. 2808-21.
165. Hadsell, D.L., D. Torres, J. George, A.V. Capuco, S.E. Ellis, and M.L. Fiorotto, *Changes in secretory cell turnover, and mitochondrial oxidative damage in the mouse mammary gland during a single prolonged lactation cycle suggest the possibility of accelerated cellular aging*. Exp Gerontol, 2006. **41**(3): p. 271-81.
166. Manczak, M., T.S. Anekonda, E. Henson, B.S. Park, J. Quinn, and P.H. Reddy, *Mitochondria are a direct site of A beta accumulation in Alzheimer's disease neurons: implications for free radical generation and oxidative damage in disease progression*. Hum Mol Genet, 2006. **15**(9): p. 1437-49.
167. French, J.P., J.C. Quindry, D.J. Falk, J.L. Staib, Y. Lee, K.K. Wang, and S.K. Powers, *Ischemia-reperfusion-induced calpain activation and SERCA2a degradation are attenuated by exercise training and calpain inhibition*. Am J Physiol Heart Circ Physiol, 2006. **290**(1): p. H128-36.
168. Cameron, V.A., T.J. Mocatta, A.P. Pilbrow, C.M. Frampton, R.W. Troughton, A.M. Richards, and C.C. Winterbourn, *Angiotensin type-1 receptor A1166C gene polymorphism correlates with oxidative stress levels in human heart failure*. Hypertension, 2006. **47**(6): p. 1155-61.
169. Zhan, G., P. Fenik, D. Pratico, and S.C. Veasey, *Inducible nitric oxide synthase in long-term intermittent hypoxia: hypersomnolence and brain injury*. Am J Respir Crit Care Med, 2005. **171**(12): p. 1414-20.
170. Boaz, M., L. Iuliano, J. Himmelfarb, Z. Matas, F. Micheletta, E. McMonagle, V. Friedman, S. Natoli, G. Gvirtz, A. Biro, S. Smetana, G. Sabo, U. Gafter, and T. Weinstein, *Baseline oxysterols and other markers of oxidative stress, inflammation and malnutrition in the vitamin e and intima media thickness progression in end-stage renal disease (VIPER) cohort*. Nephron Clin Pract, 2005. **100**(4): p. c111-9.
171. Himmelfarb, J., E. McMonagle, S. Freedman, J. Klenzak, E. McMEnamin, P. Le, L.B. Pupim, T.A. Ikizler, and P.G. The, *Oxidative stress is increased in critically ill patients with acute renal failure*. J Am Soc Nephrol, 2004. **15**(9): p. 2449-56.
172. Dani, C., E. Martelli, M. Tronchin, G. Buonocore, M. Longini, A. Di Filippo, M. Giossi, and F.F. Rubaltelli, *Bilirubin influence on oxidative lung damage and surfactant surface tension properties*. Pediatr Pulmonol, 2004. **38**(3): p. 179-85.
173. Mocatta, T.J., C.C. Winterbourn, T.E. Inder, and B.A. Darlow, *The effect of gestational age and labour on markers of lipid and protein oxidation in cord plasma*. Free Radic Res, 2004. **38**(2): p. 185-91.

174. Senthilmohan, S.T., J. Zhang, and R.A. Stanley, *Effects of flavonoid extract Enzogenol® with vitamin C on protein oxidation and DNA damage in older human subjects*. Nutrition Research, 2003. **23**(9): p. 1199-1210.
175. Lauricella, M., A. D'Anneo, M. Giuliano, G. Calvaruso, S. Emanuele, R. Vento, and G. Tesoriere, *Induction of apoptosis in human osteosarcoma Saos-2 cells by the proteasome inhibitor MG132 and the protective effect of pRb*. Cell Death Differ, 2003. **10**(8): p. 930-2.
176. Winterbourn, C.C., M.J. Bonham, H. Buss, F.M. Abu-Zidan, and J.A. Windsor, *Elevated protein carbonyls as plasma markers of oxidative stress in acute pancreatitis*. Pancreatology, 2003. **3**(5): p. 375-82.
177. Himmelfarb, J. and E. McMonagle, *Albumin is the major plasma protein target of oxidant stress in uremia*. Kidney Int, 2001. **60**(1): p. 358-63.
178. Cederberg, J., S. Basu, and U.J. Eriksson, *Increased rate of lipid peroxidation and protein carbonylation in experimental diabetic pregnancy*. Diabetologia, 2001. **44**(6): p. 766-74.