

References

- Anthonsen, M. W., Stengel, D., Hourton, D., Ninio, E., & Johansen, B. (2000). Mildly oxidized LDL induces expression of group IIa secretory phospholipase A(2) in human monocyte-derived macrophages. *Arteriosclerosis, thrombosis, and vascular biology*, 20(5), 1276-1282.
- Baumbach, G. L., Sigmund, C. D., & Faraci, F. M. (2003). Cerebral arteriolar structure in mice overexpressing human renin and angiotensinogen. *Hypertension*, 41(1), 50-55.
- Behrendt, D., & Ganz, P. (2002). Endothelial function. From vascular biology to clinical applications. *The American journal of cardiology*, 90(10C), 40L-48L.
- Benavides, M. P., Gallego, S. M & Tomaro, M. (2005). Cadmium Toxicity in plants. *Brazil Journal of plant physiology*, 17(1), 21-34.
- Biondi, R., Ambrosio, G., Liebgott, T., Cardounel, A. J., Bettini, M., Tritto, I., et al. (2006). Hydroxylation of D-phenylalanine as a novel approach to detect hydroxyl radicals: application to cardiac pathophysiology. *Cardiovascular research*, 71(2), 322-330.
- Black, H. S. (2002). Pro-oxidant and anti-oxidant mechanism(s) of BHT and beta-carotene in photocarcinogenesis. *Frontiers in bioscience*, 7, d1044-1055.
- Blanc, A., Pandey, N. R., & Srivastava, A. K. (2003). Synchronous activation of ERK 1/2, p38mapk and PKB/Akt signaling by H₂O₂ in vascular smooth muscle cells: potential involvement in vascular disease (review). *International journal of molecular medicine*, 11(2), 229-234.
- Cadenas, S., Barja, G., Poulsen, H. E., & Loft, S. (1997). Oxidative DNA damage estimated by oxo8dG in the liver of guinea-pigs supplemented with graded dietary doses of ascorbic acid and alpha-tocopherol. *Carcinogenesis*, 18(12), 2373-2377.
- Carr, A. C., McCall, M. R., & Frei, B. (2000). Oxidation of LDL by myeloperoxidase and reactive nitrogen species: reaction pathways and antioxidant protection. *Arteriosclerosis, thrombosis, and vascular biology*, 20(7), 1716-1723.

- Casino, P. R., Kilcoyne, C. M., Quyyumi, A. A., Hoeg, J. M., & Panza, J. A. (1994). Investigation of decreased availability of nitric oxide precursor as the mechanism responsible for impaired endothelium-dependent vasodilation in hypercholesterolemic patients. *Journal of the American College of Cardiology*, 23(4), 844-850.
- Chen, H., Li, D., Sawamura, T., Inoue, K., & Mehta, J. L. (2000). Upregulation of LOX-1 expression in aorta of hypercholesterolemic rabbits: modulation by losartan. *Biochemical and biophysical research communications*, 276(3), 1100-1104.
- Chen, J. C., Huang, K. C., Wingerd, B., Wu, W. T., & Lin, W. W. (2004). HMG-CoA reductase inhibitors induce COX-2 gene expression in murine macrophages: role of MAPK cascades and promoter elements for CREB and C/EBPbeta. *Experimental cell research*, 301(2), 305-319.
- Chen, M., Keene, D. R., Costa, F. K., Tahk, S. H., & Woodley, D. T. (2001). The carboxyl terminus of type VII collagen mediates antiparallel dimer formation and constitutes a new antigenic epitope for epidermolysis Bullosa acquisita autoantibodies. *The Journal of biological chemistry*, 276(24), 21649-21655.
- Chongcharoen (Suwanprasert) K. (1998). The study of the role of free radical generated by ferrous exposed porcine coronary artery in low density lipoprotein (LDL) oxidation. *Dalton Cardiovascular Research Center Report*, University of Missouri, USA
- Chiueh, C. C. (1999). Neuroprotective properties of nitric oxide. *Annals of the New York Academy of Sciences*, 890, 301-311.
- Cominacini, L., Pasini, A. F., Garbin, U., Davoli, A., Tosetti, M. L., Campagnola, M., et al. (2000). Oxidized low density lipoprotein (ox-LDL) binding to ox-LDL receptor-1 in endothelial cells induces the activation of NF-kappaB through an increased production of intracellular reactive oxygen species. *The Journal of biological chemistry*, 275(17), 12633-12638.

- Cominacini, L., Rigoni, A., Pasini, A. F., Garbin, U., Davoli, A., Campagnola, M., et al. (2001). The binding of oxidized low density lipoprotein (ox-LDL) to ox-LDL receptor-1 reduces the intracellular concentration of nitric oxide in endothelial cells through an increased production of superoxide. *The Journal of biological chemistry*, 276(17), 13750-13755
- Coppock, H. A., Owji, A. A., Austin, C., Upton, P. D., Jackson, M. L., Gardiner, J. V., et al. (1999). Rat-2 fibroblasts express specific adrenomedullin receptors, but not calcitonin-gene-related-peptide receptors, which mediate increased intracellular cAMP and inhibit mitogen-activated protein kinase activity. *The Biochemical journal*, 338 (Pt 1), 15-22.
- d'Uscio, L. V., Milstien, S., Richardson, D., Smith, L., & Katusic, Z. S. (2003). Long-term vitamin C treatment increases vascular tetrahydrobiopterin levels and nitric oxide synthase activity. *Circulation research*, 92(1), 88-95.
- Daugherty, A. (1994). Lipoprotein receptors in arterial tissue: relation to the pathology of atherosclerosis. *Coronary artery disease*, 5(3), 211-215.
- De Caterina, R., Libby, P., Peng, H. B., Thannickal, V. J., Rajavashisth, T. B., Gimbrone, M. A., Jr., et al. (1995). Nitric oxide decreases cytokine-induced endothelial activation. Nitric oxide selectively reduces endothelial expression of adhesion molecules and proinflammatory cytokines. *The Journal of clinical investigation*, 96(1), 60-68.
- Denicola, A., Souza, J. M., & Radi, R. (1998). Diffusion of peroxynitrite across erythrocyte membranes. *Proceedings of the National Academy of Sciences of the United States of America*, 95(7), 3566-3571.
- Diaz, M. N., Frei, B., Vita, J. A., & Keaney, J. F., Jr. (1997). Antioxidants and atherosclerotic heart disease. *The New England journal of medicine*, 337(6), 408-416.
- Droge, W. (2001). Re: "influence of N-acetyl-cystein on hepatic amino acid metabolism in patients undergoing orthotopic liver transplantation" by Taut et al. *Transplant international : official journal of the European Society for Organ Transplantation*, 14(6), 447.

- Droge, W. (2002). Free radicals in the physiological control of cell function. *Physiological reviews*, 82(1), 47-95.
- Esterbauer, H., Gebicki, J., Puhl, H., & Jurgens, G. (1992). The role of lipid peroxidation and antioxidants in oxidative modification of LDL. *Free radical biology & medicine*, 13(4), 341-390.
- Esterbauer, H., Striegl, G., Puhl, H., & Rotheneder, M. (1989). Continuous monitoring of in vitro oxidation of human low density lipoprotein. *Free radical research communications*, 6(1), 67-75.
- Esterbauer, H., & Zollner, H. (1989). Methods for determination of aldehydic lipid peroxidation products. *Free radical biology & medicine*, 7(2), 197-203.
- Fang, Y. Z., Sun, C. P., Tian, X. H., & Cong, J. H. (1998). Effect of lu-duo-wei on scavenging superoxide and hydroxyl radicals in vitro. *The American journal of Chinese medicine*, 26(2), 153-158.
- Faraci, F. M. (2003). Vascular protection. *Stroke; a journal of cerebral circulation*, 34(2), 327-329.
- Feron, O., & Kelly, R. A. (2001). The caveolar paradox: suppressing, inducing, and terminating eNOS signaling. *Circulation research*, 88(2), 129-131.
- Finkel, T. (1999). Signal transduction by reactive oxygen species in non-phagocytic cells. *Journal of leukocyte biology*, 65(3), 337-340.
- Gavino, V. C., Miller, J. S., Ikharebha, S. O., Milo, G. E., & Cornwell, D. G. (1981). Effect of polyunsaturated fatty acids and antioxidants on lipid peroxidation in tissue cultures. *Journal of lipid research*, 22(5), 763-769.
- Gow, A. J., Duran, D., Malcolm, S., & Ischiropoulos, H. (1996). Effects of peroxynitrite-induced protein modifications on tyrosine phosphorylation and degradation. *FEBS letters*, 385(1-2), 63-66.
- Griendling, K. K., Sorescu, D., Lassegue, B., & Ushio-Fukai, M. (2000). Modulation of protein kinase activity and gene expression by reactive oxygen species and their role in vascular physiology and pathophysiology. *Arteriosclerosis, thrombosis, and vascular biology*, 20(10), 2175-2183.

- Haberland, M. E., Olch, C. L., & Folgelman, A. M. (1984). Role of lysines in mediating interaction of modified low density lipoproteins with the scavenger receptor of human monocyte macrophages. *The Journal of biological chemistry*, 259(18), 11305-11311.
- Halliwell, B. (1989). Superoxide, iron, vascular endothelium and reperfusion injury. *Free radical research communications*, 5(6), 315-318.
- Harrison, D. G. (1997). Endothelial function and oxidant stress. *Clinical cardiology*, 20(11 Suppl 2), II-11-17.
- Hassan, H. M., & Fridovich, I. (1977). Physiological function of superoxide dismutase in glucose-limited chemostat cultures of *Escherichia coli*. *Journal of bacteriology*, 130(2), 805-811.
- Inoue, K., Arai, Y., Kurihara, H., Kita, T., & Sawamura, T. (2005). Overexpression of lectin-like oxidized low-density lipoprotein receptor-1 induces intramyocardial vasculopathy in apolipoprotein E-null mice. *Circulation research*, 97(2), 176-184.
- Irani, K. (2000). Oxidant signaling in vascular cell growth, death, and survival : a review of the roles of reactive oxygen species in smooth muscle and endothelial cell mitogenic and apoptotic signaling. *Circulation research*, 87(3), 179-183.
- Karpe, F., & Hamsten, A. (1994). Determination of apolipoproteins B-48 and B-100 in triglyceride-rich lipoproteins by analytical SDS-PAGE. *Journal of lipid research*, 35(7), 1311-1317.
- Kataoka, H., Kume, N., Miyamoto, S., Minami, M., Morimoto, M., Hayashida, K., et al. (2001). Oxidized LDL modulates Bax/Bcl-2 through the lectinlike Ox-LDL receptor-1 in vascular smooth muscle cells. *Arteriosclerosis, thrombosis, and vascular biology*, 21(6), 955-960.
- Kennedy, S., Fournet-Bourguignon, M. P., Breugnot, C., Castedo-Delrieu, M., Lesage, L., Reure, H., et al. (2003). Cells derived from regenerated endothelium of the porcine coronary artery contain more oxidized forms of apolipoprotein-B-100 without a modification in the uptake of oxidized LDL. *Journal of vascular research*, 40(4), 389-398.

- Khouw, A. S., Parthasarathy, S., & Witztum, J. L. (1993). Radioiodination of low density lipoprotein initiates lipid peroxidation: protection by use of antioxidants. *Journal of lipid research*, 34(9), 1483-1496.
- Klatt, P., & Lamas, S. (2000). Regulation of protein function by S-glutathiolation in response to oxidative and nitrosative stress. *European journal of biochemistry / FEBS*, 267(16), 4928-4944.
- Kovacic, P., & Jacintho, J. D. (2001). Mechanisms of carcinogenesis: focus on oxidative stress and electron transfer. *Current medicinal chemistry*, 8(7), 773-796.
- Kuroki, M., Voest, E. E., Amano, S., Beerepoot, L. V., Takashima, S., Tolentino, M., et al. (1996). Reactive oxygen intermediates increase vascular endothelial growth factor expression in vitro and in vivo. *The Journal of clinical investigation*, 98(7), 1667-1675.
- Kyaw, M., Yoshizumi, M., Tsuchiya, K., Kirima, K., Suzaki, Y., Abe, S., et al. (2002). Antioxidants inhibit endothelin-1 (1-31)-induced proliferation of vascular smooth muscle cells via the inhibition of mitogen-activated protein (MAP) kinase and activator protein-1 (AP-1). *Biochemical pharmacology*, 64(10), 1521-1531.
- Landmesser, U., Merten, R., Spiekermann, S., Buttner, K., Drexler, H., & Hornig, B. (2000). Vascular extracellular superoxide dismutase activity in patients with coronary artery disease: relation to endothelium-dependent vasodilation. *Circulation*, 101(19), 2264-2270.
- Li, D., & Mehta, J. L. (2000). Upregulation of endothelial receptor for oxidized LDL (LOX-1) by oxidized LDL and implications in apoptosis of human coronary artery endothelial cells: evidence from use of antisense LOX-1 mRNA and chemical inhibitors. *Arteriosclerosis, thrombosis, and vascular biology*, 20(4), 1116-1122.
- Li, J. M., & Shah, A. M. (2004). Endothelial cell superoxide generation: regulation and relevance for cardiovascular pathophysiology. *American journal of physiology. Regulatory, integrative and comparative physiology*, 287(5), R1014-1030.

- Liao, J. K. (1994). Inhibition of Gi proteins by low density lipoprotein attenuates bradykinin-stimulated release of endothelial-derived nitric oxide. *The Journal of biological chemistry*, 269(17), 12987-12992.
- Liaudet, L., Vassalli, G., & Pacher, P. (2009). Role of peroxynitrite in the redox regulation of cell signal transduction pathways. *Frontiers in bioscience : a journal and virtual library*, 14, 4809-4814.
- Libby, P. (2002). Inflammation in atherosclerosis. *Nature*, 420(6917), 868-874.
- Ludmer, P. L., Selwyn, A. P., Shook, T. L., Wayne, R. R., Mudge, G. H., Alexander, R. W., et al. (1986). Paradoxical vasoconstriction induced by acetylcholine in atherosclerotic coronary arteries. *The New England journal of medicine*, 315(17), 1046-1051.
- Macmillan-Crow, L. A., & Cruthirds, D. L. (2001). Invited review: manganese superoxide dismutase in disease. *Free radical research*, 34(4), 325-336.
- Mayer, G., Leone, R. D., Hainfeld, J. F., & Bendayan, M. (2000). Introduction of a novel HRP substrate-Nanogold probe for signal amplification in immunocytochemistry. *The journal of histochemistry and cytochemistry : official journal of the Histochemistry Society*, 48(4), 461-470.
- Madamanchi, N. R., Vendrov, A., & Runge, M. S. (2005). Oxidative stress and vascular disease. *Arteriosclerosis, thrombosis, and vascular biology*, 25(1), 29-38.
- Mehta, J. L. (2004). The role of LOX-1, a novel lectin-like receptor for oxidized low density lipoprotein, in atherosclerosis. *The Canadian journal of cardiology*, 20 Suppl B, 32B-36B.
- Mehta, J. L., Chen, J., Hermonat, P. L., Romeo, F., & Novelli, G. (2006). Lectin-like, oxidized low-density lipoprotein receptor-1 (LOX-1): a critical player in the development of atherosclerosis and related disorders. *Cardiovascular research*, 69(1), 36-45.
- Mehta, J. L., & Li, D. Y. (1998). Identification and autoregulation of receptor for OX-LDL in cultured human coronary artery endothelial cells. *Biochemical and biophysical research communications*, 248(3), 511-514.

- Merrick, A. F., Shewring, L. D., Sawyer, G. J., Gustafsson, K. T., & Fabre, J. W. (1996). Comparison of adenovirus gene transfer to vascular endothelial cells in cell culture, organ culture, and in vivo. *Transplantation*, 62(8), 1085-1089.
- Metzler, B., Hu, Y., Dietrich, H., & Xu, Q. (2000). Increased expression and activation of stress-activated protein kinases/c-Jun NH(2)-terminal protein kinases in atherosclerotic lesions coincide with p53. *The American journal of pathology*, 156(6), 1875-1886.
- Milliat, F., Francois, A., Isoir, M., Deutsch, E., Tamarat, R., Tarlet, G., et al. (2006). Influence of endothelial cells on vascular smooth muscle cells phenotype after irradiation: implication in radiation-induced vascular damages. *The American journal of pathology*, 169(4), 1484-1495.
- Mollnau, H., Wendt, M., Szocs, K., Lassegue, B., Schulz, E., Oelze, M., et al. (2002). Effects of angiotensin II infusion on the expression and function of NAD(P)H oxidase and components of nitric oxide/cGMP signaling. *Circulation research*, 90(4), E58-65.
- Moore, K. J., & Freeman, M. W. (2006). Scavenger receptors in atherosclerosis: beyond lipid uptake. *Arteriosclerosis, thrombosis, and vascular biology*, 26(8), 1702-1711.
- Moriwaki, H., Kume, N., Sawamura, T., Aoyama, T., Hoshikawa, H., Ochi, H., et al. (1998). Ligand specificity of LOX-1, a novel endothelial receptor for oxidized low density lipoprotein. *Arteriosclerosis, thrombosis, and vascular biology*, 18(10), 1541-1547.
- Murphy, J. E., Tedbury, P. R., Homer-Vanniasinkam, S., Walker, J. H., & Ponnambalam, S. (2005). Biochemistry and cell biology of mammalian scavenger receptors. *Atherosclerosis*, 182(1), 1-15.
- Muzykantov, V. R. (2001). Targeting of superoxide dismutase and catalase to vascular endothelium. *Journal of controlled release : official journal of the Controlled Release Society*, 71(1), 1-21.
- Nagano, T., & Fridovich, I. (1985). Superoxide radical from xanthine oxidase acting upon lumazine. *Journal of free radicals in biology & medicine*, (1), 39-42.

- Nakajima, K., Nakano, T., & Tanaka, A. (2006). The oxidative modification hypothesis of atherosclerosis: the comparison of atherogenic effects on oxidized LDL and remnant lipoproteins in plasma. *Clinica chimica acta; international journal of clinical chemistry*, 367(1-2), 36-47.
- Napoli, C., de Nigris, F., & Palinski, W. (2001). Multiple role of reactive oxygen species in the arterial wall. *Journal of cellular biochemistry*, 82(4), 674-682.
- Napoli, C., Quehenberger, O., De Nigris, F., Abete, P., Glass, C. K., & Palinski, W. (2000). Mildly oxidized low density lipoprotein activates multiple apoptotic signaling pathways in human coronary cells. *The FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 14(13), 1996-2007.
- Noble, R. P. (1968). Electrophoretic separation of plasma lipoproteins in agarose gel. *Journal of lipid research*, 9(6), 693-700.
- Okura, Y., Brink, M., Itabe, H., Scheidegger, K. J., Kalangos, A., & Delafontaine, P. (2000). Oxidized low-density lipoprotein is associated with apoptosis of vascular smooth muscle cells in human atherosclerotic plaques. *Circulation*, 102(22), 2680-2686.
- Oury, T. D., Day, B. J., & Crapo, J. D. (1996). Extracellular superoxide dismutase: a regulator of nitric oxide bioavailability. *Laboratory investigation; a journal of technical methods and pathology*, 75(5), 617-636.
- Packer, L. (2002). Highlight: oxidative stress. *Biological chemistry*, 383(3-4), 345.
- Palinski, W., Rosenfeld, M. E., Yla-Herttuala, S., Gurtner, G. C., Socher, S. S., Butler, S. W., et al. (1989). Low density lipoprotein undergoes oxidative modification in vivo. *Proceedings of the National Academy of Sciences of the United States of America*, 86(4), 1372-1376.
- Panasenko, O. M., Briviba, K., Klotz, L. O., & Sies, H. (1997). Oxidative modification and nitration of human low-density lipoproteins by the reaction of hypochlorous acid with nitrite. *Archives of biochemistry and biophysics*, 343(2), 254-259.
- Pastor, C. M., & Hadengue, A. (2000). Shear stress modulates the vascular tone in perfused livers isolated from normal rats. *Hepatology*, 32(4 Pt 1), 786-791.

- Peterson, T. E., Kleppe, L. S., Caplice, N. M., Pan, S., Mueske, C. S., & Simari, R. D. (1999). The regulation of caveolin expression and localization by serum and heparin in vascular smooth muscle cells. *Biochemical and biophysical research communications*, 265(3), 722-727.
- Plane, F., Kerr, P., Bruckdorfer, K. R., & Jacobs, M. (1990). Inhibition of endothelium-dependent relaxation by oxidized low-density lipoproteins. *Biochemical Society transactions*, 18(6), 1177-1178.
- Pfeilschifter, J., Eberhardt, W., & Huwiler, A. (2001). Nitric oxide and mechanisms of redox signalling: matrix and matrix-metabolizing enzymes as prime nitric oxide targets. *European journal of pharmacology*, 429(1-3), 279-286.
- Radi, R., Beckman, J. S., Bush, K. M., & Freeman, B. A. (1991). Peroxynitrite-induced membrane lipid peroxidation: the cytotoxic potential of superoxide and nitric oxide. *Archives of biochemistry and biophysics*, 288(2), 481-487.
- Ridnour, L. A., Thomas, D. D., Mancardi, D., Espey, M. G., Miranda, K. M., Paolocci, N., et al. (2004). The chemistry of nitrosative stress induced by nitric oxide and reactive nitrogen oxide species. Putting perspective on stressful biological situations. *Biological chemistry*, 385(1), 1-10.
- Rodrigo, M. C., Martin, D. S., Redetzke, R. A., & Eyster, K. M. (2002). A method for the extraction of high-quality RNA and protein from single small samples of arteries and veins preserved in RNAlater. *Journal of pharmacological and toxicological methods*, 47(2), 87-92.
- Rosen, G. M., & Freeman, B. A. (1984). Detection of superoxide generated by endothelial cells. *Proceedings of the National Academy of Sciences of the United States of America*, 81(23), 7269-7273.
- Sawamura, T., Kume, N., Aoyama, T., Moriwaki, H., Hoshikawa, H., Aiba, Y., et al. (1997). An endothelial receptor for oxidized low-density lipoprotein. *Nature*, 386(6620), 73-77.
- Schumaker, V. N., & Puppione, D. L. (1986). Sequential flotation ultracentrifugation. *Methods in enzymology*, 128, 155-170.
- Seghrouchni, I., Draï, J., Bannier, E., Garcia, I., & Revol, A. (2001). Low-density lipoprotein (LDL) behavior after in vitro oxidation in three groups of diabetics. *Farmaco (Società chimica italiana : 1989)*, 56(5-7), 471-474.

- Shibuki, K. (1990). An electrochemical microprobe for detecting nitric oxide release in brain tissue. *Neuroscience research*, 9(1), 69-76.
- Smith, L. C., Pownall, H. J., & Gotto, A. M., Jr. (1978). The plasma lipoproteins: structure and metabolism. *Annual review of biochemistry*, 47, 751-757.
- Sobanov, Y., Bernreiter, A., Derdak, S., Mechtcheriakova, D., Schweighofer, B., Duchler, M., et al. (2001). A novel cluster of lectin-like receptor genes expressed in monocytic, dendritic and endothelial cells maps close to the NK receptor genes in the human NK gene complex. *European journal of immunology*, 31(12), 3493-3503.
- Stahl, G. L., Halliwell, B., & Longhurst, J. C. (1992). Hydrogen peroxide-induced cardiovascular reflexes. Role of hydroxyl radicals. *Circulation Research*, 71(2), 295-302.
- Steinberg, D. (1997). Low density lipoprotein oxidation and its pathobiological significance. *The Journal of biological chemistry*, 272(34), 20963-20966.
- Steinberg, D., Carew, T. E., Fielding, C., Fogelman, A. M., Mahley, R. W., Sniderman, A. D., et al. (1989). Lipoproteins and the pathogenesis of atherosclerosis. *Circulation*, 80(3), 719-723.
- Steinbrecher, U. P., Parthasarathy, S., Leake, D. S., Witztum, J. L., & Steinberg, D. (1984). Modification of low density lipoprotein by endothelial cells involves lipid peroxidation and degradation of low density lipoprotein phospholipids. *Proceedings of the National Academy of Sciences of the United States of America*, 81(12), 3883-3887.
- Steinbrecher, U. P. (1987). Oxidation of human low density lipoprotein results in derivatization of lysine residues of apolipoprotein B by lipid peroxide decomposition products. *The Journal of biological chemistry*, 262(8), 3603-3608.
- Stralin, P., Karlsson, K., Johansson, B. O., & Marklund, S. L. (1995). The interstitium of the human arterial wall contains very large amounts of extracellular superoxide dismutase. *Arteriosclerosis, thrombosis, and vascular biology*, 15(11), 2032-2036.

- Thomas, S. R., & Stocker, R. (2000). Molecular action of vitamin E in lipoprotein oxidation: implications for atherosclerosis. *Free radical biology & medicine*, 28(12), 1795-1805.
- Tsimikas, S., Brilakis, E. S., Miller, E. R., McConnell, J. P., Lennon, R. J., Kornman, K. S., et al. (2005). Oxidized phospholipids, Lp(a) lipoprotein, and coronary artery disease. *The New England journal of medicine*, 353(1), 46-57.
- Upmacis, R. K., Deeb, R. S., Resnick, M. J., Lindenbaum, R., Gamss, C., Mittar, D., et al. (2004). Involvement of the mitogen-activated protein kinase cascade in peroxynitrite-mediated arachidonic acid release in vascular smooth muscle cells. *American journal of physiology. Cell physiology*, 286(6), C1271-1280.
- Ushio-Fukai, M., Alexander, R. W., Akers, M., Yin, Q., Fujio, Y., Walsh, K., et al. (1999). Reactive oxygen species mediate the activation of Akt/protein kinase B by angiotensin II in vascular smooth muscle cells. *The Journal of biological chemistry*, 274(32), 22699-22704.
- Valko, M., Morris, H., & Cronin, M. T. (2005). Metals, toxicity and oxidative stress. *Current medicinal chemistry*, 12(10), 1161-1208.
- van Hinsbergh, V. W., Scheffer, M., Havekes, L., & Kempen, H. J. (1986). Role of endothelial cells and their products in the modification of low-density lipoproteins. *Biochimica et biophysica acta*, 878(1), 49-64.
- Vieira, O. V., Laranjinha, J. A., Madeira, V. M., & Almeida, L. M. (1996). Rapid isolation of low density lipoproteins in a concentrated fraction free from water-soluble plasma antioxidants. *Journal of lipid research*, 37(12), 2715-2721.
- Wallin, B., Rosengren, B., Shertzer, H. G., & Camejo, G. (1993). Lipoprotein oxidation and measurement of thiobarbituric acid reacting substances formation in a single microtiter plate: its use for evaluation of antioxidants. *Analytical biochemistry*, 208(1), 10-15.
- Widlansky, M. E., Gokce, N., Keaney, J. F., Jr., & Vita, J. A. (2003). The clinical implications of endothelial dysfunction. *Journal of the American College of Cardiology*, 42(7), 1149-1160.

- Wolin, M. S., Xie, Y. W., & Hintze, T. H. (1999). Nitric oxide as a regulator of tissue oxygen consumption. *Current opinion in nephrology and hypertension*, 8(1), 97-103.
- Yagi, K. (1976). A simple fluorometric assay for lipoperoxide in blood plasma. *Biochemical medicine*, 15(2), 212-216.
- Yla-Herttuala, S., Palinski, W., Rosenfeld, M. E., Parthasarathy, S., Carew, T. E., Butler, S., et al. (1989). Evidence for the presence of oxidatively modified low density lipoprotein in atherosclerotic lesions of rabbit and man. *The Journal of clinical investigation*, 84(4), 1086-1095.
- Young, I. S., McFarlane, C., & McEneny, J. (2003). Oxidative modification of triacylglycerol-rich lipoproteins. *Biochemical Society transactions*, 31(Pt 5), 1062-1065.
- Zhao, M., Yang, X., Wei, Q., Chen, W., Lu, C., & Chen, T. (2000). [A study on apoptosis and activity of SAPK/JNK in adrenocortical cells induced by cadmium chloride]. *Zhonghua yu fang yi xue za zhi [Chinese journal of preventive medicine]*, 34(6), 342-344.
- Zou, M. H., Shi, C., & Cohen, R. A. (2002). Oxidation of the zinc-thiolate complex and uncoupling of endothelial nitric oxide synthase by peroxynitrite. *The Journal of clinical investigation*, 109(6), 817-826.