

Oxidative Stress

Bibliography of One Hundred Key Papers

-
- Alkhulaifi AM.** *Preconditioning the human heart.*
Ann R Coll Surg Engl. 1997;79:49-54.
-
- Amsterdam EA, Stahl GL, Pan HL, Rendig SV, Fletcher MP, Longhurst JC.** *Limitation of reperfusion injury by a monoclonal antibody to C5a during myocardial infarction in pigs.*
Am J Physiol. 1995(1, pt 2);268:H448-H457.
-
- Antonaci S, Tortorella C.** *The role of free oxygen radicals in myocardial damage from ischemia/reperfusion, in chronic obstructive bronchopneumopathy and in aging [Ruolo dei radicali liberi dell'ossigeno nel danno miocardico da ischemia/riperfusion, nella broncopneumopatia cronica ostruttiva e nell'invecchiamento].*
Recenti Prog Med. 1992;83:105-112.
-
- Aversano T, Zhou W, Nedelman M, Nakada M, Weisman H.** *A chimeric IgG4 monoclonal antibody directed against CD18 reduces infarct size in a primate model of myocardial ischemia and reperfusion.*
J Am Coll Cardiol. 1995;25:781-788.
-
- Babbitt DG, Virmani R, Forman MB.** *Intracoronary adenosine administered after reperfusion limits vascular injury after prolonged ischemia in the canine model.*
Circulation. 1989;80:1388-1399.
-
- Bagchi D, Das DK, Engelman RM, Prasad MR, Subramanian R.** *Polymorphonuclear leucocytes as potential source of free radicals in the ischaemic-reperfused myocardium.*
Eur Heart J. 1990;11:800-813.
-
- Baxter GF, Yellon DM.** *Time course of delayed myocardial protection after transient adenosine A₁-receptor activation in the rabbit.*
J Cardiovasc Pharmacol. 1997;29:631-638.
-
- Birnbaum Y, Hale SL, Kloner RA.** *Differences in reperfusion length following 30 minutes of ischemia in the rabbit influence infarct size, as measured by triphenyltetrazolium chloride staining.*
J Mol Cell Cardiol. 1997;29:657-666.
-
- Bolli R.** *Mechanism of myocardial stunning.*
Circulation. 1990;83:470-480.
-
- Bolli R, Jeroudi MO, Patel BS, et al.** *Marked reduction of free radical generation and contractile dysfunction by antioxidant therapy begun at the time of reperfusion. Evidence that myocardial "stunning" is a manifestation of reperfusion injury.*
Circ Res. 1989;65:607-622.
-

Bibliography of One Hundred Key Papers

Byrne JG, Smith WJ, Murphy MP, Couper GS, Appleyard RF, Cohn LH.

Complete prevention of myocardial stunning, contracture, low-reflow, and edema after heart transplantation by blocking neutrophil adhesion molecules during reperfusion.

J Thorac Cardiovasc Surg. 1992;104:1589-1596.

Chambers DE, Parks DA, Patterson G, et al.

Xanthine oxidase as a source of free radical damage in myocardial ischemia.

J Mol Cell Cardiol. 1985;17:145-152.

Chandrasekar B, Colston JT, Freeman GL.

Induction of proinflammatory cytokine and antioxidant enzyme gene expression following brief myocardial ischaemia.

Clin Exp Immunol. 1997;108:346-351.

Chatelain P, Latour JG, Tran D, de Lorgeril M, Dupras G, Bourassa M.

Neutrophil accumulation in experimental myocardial infarcts: relation with extent of injury and effect of reperfusion.

Circulation. 1987;75:1083-1090.

Curello S, Ceconi C, de Giuli F, et al.

Oxidative stress during reperfusion of human hearts: potential sources of oxygen free radicals.

Cardiovasc Res. 1995;29:118-125.

Curtis WE, Gillinov AM, Wilson IC, et al.

Inhibition of neutrophil adhesion reduces myocardial infarct size.

Ann Thorac Surg. 1993;56:1069-1072.

de Lorgeril M, Basmadjian A, Lavallee M, et al.

Influence of leukopenia on collateral flow, reperfusion flow, reflow ventricular fibrillation, and infarct size in dogs.

Am Heart J. 1989;117:523-532.

de Lorgeril M, Rousseau G, Basmadjian A, St-Jean G, Tran DC, Latour JG.

Spacial and temporal profiles of neutrophil accumulation in the reperfused ischemic myocardium.

Am J Cardiovasc Pathol. 1990;3:143-154.

Elgebaly SA, Hashmi FH, Houser SL, Allam ME, Doyle K.

Cardiac-derived neutrophil chemotactic factors: detection in coronary sinus effluents of patients undergoing myocardial revascularization.

J Thorac Cardiovasc Surg. 1992;103:952-959.

Emerit I, Fabiani JN, Levy A, et al.

Plasma from patients exposed to ischemia reperfusion contains clastogenic factors and stimulates the chemiluminescence response of normal leukocytes.

Free Radic Biol Med. 1995;19:405-415.

Eng C, Cho S, Factor SM, Kirk ES.

A nonflow basis for the vulnerability of the subendocardium.

J Am Coll Cardiol. 1987;9:374-379.

Engler RL, Roth DM, del Balzo U, Ito BR.

Intracoronary C5a induces myocardial ischemia by mechanisms independent of the neutrophil: leukocyte filters desensitize the myocardium to C5a.

FASEB J. 1991;5:2983-2991.

Ferrari R.

Importance of oxygen free radicals during ischemia and reperfusion in the experimental and clinical setting. Oxygen free radicals and the heart.

Am J Cardiovasc Pathol. 1992;4:103-114.



-
- Ferrari R, Ceconi C, Curello S, et al.** *Oxygen free radicals and myocardial damage: protective role of thiol-containing agents.*
Am J Med. 1991;91:95S-105S.
-
- Ferrari R, Ceconi C, Curello S, et al.** *Role of oxygen free radicals in ischemic and reperfused myocardium.*
Am J Clin Nutr. 1991;53:215S-222S.
-
- Ferrari R, Ceconi C, Curello S, Cargnoni A, Medici D.** *Oxygen free radicals and reperfusion injury: the effect of ischaemia and reperfusion on the cellular ability to neutralise oxygen toxicity.*
J Mol Cell Cardiol. 1986;18(suppl 4):67-69.
-
- Flaherty JT, Weisfeldt ML.** *Reperfusion injury.*
Free Radic Biol Med. 1988;5:409-419.
-
- Forman MB, Puett DW, Virmani R.** *Endothelial and myocardial injury during ischemia and reperfusion: pathogenesis and therapeutic implications.*
J Am Coll Cardiol. 1989;13:450-459.
-
- Fox KA.** *Thrombolysis: adjuvant therapy and the role of complement.*
Eur Heart J. 1990;11:36-42.
-
- Frangogiannis NG, Youker KA, Entman ML.** *The role of the neutrophil in myocardial ischemia and reperfusion.*
EXS. 1996;76:263-284.
-
- Go LO, Murry CE, Richard VJ, Weischedel GR, Jennings RB, Reimer KA.** *Myocardial neutrophil accumulation during reperfusion after reversible or irreversible ischemic injury.*
Am J Physiol. 1988; 255(5, pt 2):H1188-H1198.
-
- Gralinski MR, Park JL, Ozeck MA, Wiater BC, Lucchesi BR.** *LU 51198, a highly sulfated, low-molecular-weight heparin derivative, prevents complement-mediated myocardial injury in the perfused rabbit heart.*
J Pharmacol Exp Therp. 1997;282:554-560.
-
- Gross GJ, Auchampach JA, Maruyama M, Warltier DC, Pieper GM.** *Cardioprotective effects of nicorandil.*
J Cardiovasc Pharmacol. 1992;20(suppl 3):S22-S28.
-
- Hansen PR.** *Role of neutrophils in myocardial ischemia and reperfusion.*
Circulation. 1995;91:1872-1885.
-
- Hansen PR, Kharazmi A.** *Effect of streptokinase on human neutrophil function in vitro and in patients with acute myocardial infarction.*
J Mol Cell Cardiol. 1994;26:1061-1068.
-
- Hawkins HK, Entman ML, Zhu JY, et al.** *Acute inflammatory reaction after myocardial ischemic injury and reperfusion. Development and use of a neutrophil-specific antibody.*
Am J Pathol. 1996;148:1957-1969.
-
- Hearse DJ.** *Ischemia, reperfusion and the determinants of tissue injury.*
Cardiovasc Drugs Ther. 1990;4:767-776.
-
- Hearse DJ, Humphrey SM, Chain EB.** *Abrupt reoxygenation of the anoxic potassium-arrested perfused rat heart: a study of myocardial enzyme release.*
J Mol Cell Cardiol. 1973;5:395-407.
-

Bibliography of One Hundred Key Papers

- Horwitz LD, Kaufman D, Kong Y.** *An antibody to leukocyte integrins attenuates coronary vascular injury due to ischemia and reperfusion in dogs.*
Am J Physiol. 1997;272(2, pt 2):H618-H624.
-
- Ito T, Asai F, Ushiyama S, Matsuda K, Oshima T.** *Reduction of infarct size and infiltration of polymorphonuclear leukocytes by a thromboxane synthetase inhibitor. Studies in a rabbit ischemic heart model.*
Arzneimittelforschung. 1990;40:23-27.
-
- Jennings RB, Reimer KA, Steenbergen C.** *Myocardial ischemia revisited. The osmolar load, membrane damage, and reperfusion.*
J Mol Cell Cardiol. 1986;18:769-780.
-
- Jordan JE, Zhao ZQ, Sato H, Taft S, Vinten-Johansen J.** *Adenosine A₂ receptor activation attenuates reperfusion injury inhibiting neutrophil accumulation, superoxide generation and coronary endothelial adherence.*
J Pharmacol Exp Ther. 1997;280:301-309.
-
- Kapoor R, Prasad K.** *Role of polymorphonuclear leukocytes in cardiovascular depression and cellular injury in hemorrhagic shock and reinfusion.*
Free Radic Biol Med. 1996;21:609-618.
-
- Karmazyn M, Moffat MP.** *Role of Na⁺/H⁺ exchange in cardiac physiology and pathophysiology mediation of myocardial reperfusion injury by the pH paradox.*
Cardiovasc Res. 1993;27:915-924.
-
- Kilgore KS, Lucchesi BR.** *Effect of hypoxia and reoxygenation on the isolated rabbit heart determined by monoclonal antimyosin antibody uptake.*
Cardiovasc Res. 1993;27:1260-1267.
-
- Kilgore KS, Friedrichs GS, Homeister JW, Lucchesi BR.** *The complement system in myocardial ischaemia/reperfusion injury.*
Cardiovasc Res. 1994;28:437-444.
-
- Kilgore KS, Schmid E, Shanley TP, et al.** *Sublytic concentrations of the membrane attack complex of complement induce endothelial interleukin-8 and monocyte chemoattractant protein-1 through nuclear factor-κB activation.*
Am J Pathol. 1997;150:2019-2031.
-
- Kloner RA, Giacomelli F, Alker KJ, Hale SL, Mattews R, Bellows S.** *Influx of neutrophils into the walls of large epicardial coronary arteries in response to ischemia/reperfusion.*
Circulation. 1991;84:1758-1772.
-
- Kloner RA, Przyklenk K, Whittaker P.** *Deleterious effects of oxygen radicals in ischemia/reperfusion. Resolved and unresolved issues.*
Circulation. 1989;80:1115-1127.
-
- Korthuis RJ, Granger DN.** *Reactive oxygen metabolites, neutrophils, and the pathogenesis of ischemic-tissue/reperfusion.*
Clin Cardiol. 1993;119-126.
-
- Kramer JH, Arroyo CM, Dickens BF, Weglicki WB.** *Spin trapping evidence that graded myocardial ischemia alters post-ischemic superoxide production.*
Free Radic Biol Med. 1987;3:153-159.
-



-
- Kukielka GL, Youker KA, Michael LH, et al.** *Role of early reperfusion in the induction of adhesion molecules and cytokines in previously ischemic myocardium.*
Mol Cell Biochem. 1995;147:5-12.
-
- Kuzuya T, Hoshida S, Nishida M, et al.** *Role of free radicals and neutrophils in canine myocardial reperfusion injury: myocardial salvage by a novel free radical scavenger, 2-octadecylascorbic acid.*
Cardiovasc Res. 1989;23:323-330.
-
- Lagrand WK, Niessen HWM, Wolbink GJ, et al.** *C-reactive protein colocalizes with complement in human hearts during acute myocardial infarction.*
Circulation. 1997;95:97-103.
-
- Leesar MA, Stoddard M, Ahmed M, Broadbent J, Bolli R.** *Preconditioning of human myocardium with adenosine during coronary angioplasty.*
Circulation. 1997;95:2500-2507.
-
- Lefer DJ, Scalia R, Campbell B, et al.** *Peroxynitrite inhibits leukocyte–endothelial cell interactions and protects against ischemia-reperfusion injury in rats.*
J Clin Invest. 1997;99:684-691.
-
- Liang BT.** *Protein kinase C–mediated preconditioning of cardiac myocytes: role of adenosine receptor and K_{ATP} channel.*
Am J Physiol. 1997;273(2, pt 2):H847-H853.
-
- Lucchesi BR.** *Complement activation, neutrophils, and oxygen radicals in reperfusion injury.*
Stroke. 1993;24(12 suppl):I41-I47; discussion: I38-I40.
-
- Lucchesi BR.** *Complement, neutrophils and free radicals: mediators of reperfusion injury.*
Arzneimittelforschung. 1994;44:420-432.
-
- Lucchesi BR, Werns SW, Fantone JC.** *The role of the neutrophil and free radicals in ischemic myocardial injury.*
J Mol Cell Cardiol. 1989;21:1241-1251.
-
- Lukas A, Botsford MW.** *Cardioprotection induced by ischemic preconditioning in the mammalian heart: effects on arrhythmogenesis.*
Can J Physiol Pharmacol. 1997;75:316-325.
-
- Ma XL, Tsao PS, Lefer AM.** *Antibody to CD-18 exerts endothelial and cardiac protective effects in myocardial ischemia and reperfusion.*
J Clin Invest. 1991;88:1237-1243.
-
- Maldonado C, Qiu Y, Tang XL, Cohen MV, Auchampach J, Bolli R.** *Role of adenosine receptors in late preconditioning against myocardial stunning in conscious rabbits.*
Am J Physiol. 1997;273(3, pt 2):H1324-H1332.
-
- Mei DA, Elliott GT, Gross GJ.** *K_{ATP} channels mediate late preconditioning against infarction produced by monophosphoryl lipid A.*
Am J Physiol. 1996;271(6, pt 2):H2723-H2729.
-
- Miyawaki H, Ashraf M.** *Ca^{2+} as a mediator of ischemic preconditioning.*
Circ Res. 1997;80:790-799.
-

Bibliography of One Hundred Key Papers

- Morita Y, Murakami T, Iwase T, et al.** *K_{ATP} channels contribute to the cardioprotection of preconditioning independent of anaesthetics in rabbit hearts.*
J Mol Cell Cardiol. 1997;29:1267-1276.
-
- Mullane KM, Westlin W, Kraemer R.** *Activated neutrophils release mediators that may contribute to myocardial injury and dysfunction associated with ischemia and reperfusion.*
Ann N Y Acad Sci. 1988;524:103-121.
-
- Neumann FJ, Ott I, Wilhelm A, Katus H, Tillmanns H, Schomig A.** *Release of chemoattractants and neutrophil activation in acute myocardial infarction immediately after successful recanalization of the infarct-related vessel by angioplasty.*
Eur Heart J. 1994;15:171-178.
-
- Opie JC, Taylor G, Ashmore PG, Kalousek D.** *“Stone heart” in a neonate.*
J Thorac Cardiovasc Surg. 1981;81:459-463.
-
- Perez RG, Arai M, Richardson C, et al.** *Factors modifying protective effect of anti-CD18 antibodies on myocardial reperfusion injury in dogs.*
Am J Physiol. 1996;270(1, pt 2):H53-H64.
-
- Ping P, Zhang J, Qiu Y, et al.** *Ischemic preconditioning induces selective translocation of protein kinase C isoforms ϵ and η in the heart of conscious rabbits without subcellular redistribution of total protein kinase C activity.*
Circ Res. 1997;81:404-414.
-
- Piot CA, Padmanaban D, Ursell PC, Sievers RE, Wolfe CL.** *Ischemic preconditioning decreases apoptosis in rat hearts in vivo.*
Circulation. 1997;96:1598-1604.
-
- Qiu Y, Tang XL, Park SW, Sun JZ, Kalya A, Bolli R.** *The early and late phases of ischemic preconditioning: a comparative analysis of their effects on infarct size, myocardial stunning, and arrhythmias in conscious pigs undergoing a 40-minute coronary occlusion.*
Circ Res. 1997;80:730-742.
-
- Ranjadayalan K, Umachandran V, Davies SW, Syndercombe-Court D, Gutteridge CN, Timmis AD.** *Thrombolytic treatment in acute myocardial infarction: neutrophil activation, peripheral leucocyte responses, and myocardial injury.*
Br Heart J. 1991;66:10-14.
-
- Raschke P, Becker BF, Leipert B, Schwartz LM, Zahler S, Gerlach E.** *Postischemic dysfunction of the heart induced by small numbers of neutrophils via formation of hypochlorous acid.*
Basic Res Cardiol. 1993;88:321-339.
-
- Reimer KA, Murry CE, Richard VJ.** *The role of neutrophils and free radicals in the ischemic-reperfused heart: why the confusion and controversy?*
J Mol Cell Cardiol. 1989;21:1225-1239.
-
- Repine JE.** *Oxidant-antioxidant balance: some observations from studies of ischemia-reperfusion in isolated perfused rat hearts.*
Am J Med. 1991;91:45S-53S.
-
- Sawa Y, Shimazaki Y, Kadoba K, et al.** *Attenuation of cardiopulmonary bypass-derived inflammatory reactions reduces myocardial reperfusion injury in cardiac operations.*
J Thorac Cardiovasc Surg. 1996;111:29-35.
-



-
- Schaiff WT, Eisenberg PR.** *Direct induction of complement activation by pharmacologic activation of plasminogen.*
Cor Art Dis. 1997;8:9-18.
-
- Schultz JE, Rose E, Yao Z, Gross GJ.** *Evidence for involvement of opioid receptors in ischemic preconditioning in rat hearts.*
Am J Physiol. 1995;268(5, pt 2):H2157-H2161.
-
- Schultz JJ, Hsu AK, Gross GJ.** *Ischemic preconditioning is mediated by a peripheral opioid receptor mechanism in the intact rat heart.*
J Mol Cell Cardiol. 1997;29:1355-1362.
-
- Schwartz LM, Raschke P, Becker BF, Gerlach E.** *Adenosine contributes to neutrophil-mediated loss of myocardial function in post-ischemic guinea-pig hearts.*
J Mol Cell Cardiol. 1993;25:927-938.
-
- Semb AG, Vaage J, Sorlie D, Lie M, Mjos OD.** *Coronary trapping of a complement activation product (C3a des-Arg) during myocardial reperfusion in open-heart surgery.*
Scand J Thorac Cardiovasc Surg. 1990;24:223-227.
-
- Shandelya SM, Kuppusamy P, Weisfeldt ML, Zweier JL.** *Evaluation of the role of polymorphonuclear leukocytes on contractile function in myocardial reperfusion injury. Evidence for plasma-mediated leukocyte activation.*
Circulation. 1993;87:536-546.
-
- Simpson PJ, Lucchesi BR.** *Free radicals and myocardial ischemia and reperfusion injury.*
J Lab Clin Med. 1987;110:13-30.
-
- Smith EF 3d, Egan JW, Bugelski PJ, Hillegass LM, Hill DE, Griswold DE.** *Temporal relation between neutrophil accumulation and myocardial reperfusion injury.*
Am J Physiol. 1988;255(5, pt 2):H1060-H1068.
-
- Smith EF 3d, Griswold DE, Hillegass LM, Slivjak MJ, Davis PA, DiMartino MJ.** *Cardioprotective effects of the vasodilator/ β -adrenoceptor blocker, carvedilol, in two models of myocardial infarction in the rat.*
Pharmacology. 1992;44:297-305.
-
- Tillmanns H, Neumann FJ, Tiefenbacher C, et al.** *Activation of neutrophils in the microvasculature of the ischaemic and reperfused myocardium.*
Eur Heart J. 1993;14(suppl I):82-86.
-
- Todd J, Zhao ZQ, Williams MW, Sato H, Van Wylene DG, Vinten-Johansen J.** *Intravascular adenosine at reperfusion reduces infarct size and neutrophil adherence.*
Ann Thorac Surg. 1996;62:1364-1372.
-
- Weisman HF, Bartow T, Leppo MK, et al.** *Soluble human complement receptor type 1: in vivo inhibitor of complement suppressing post-ischemic myocardial inflammation and necrosis.*
Science. 1990;249:146-151.
-
- Werns SW, Eller BT, Shea MJ, et al.** *Protection of reperfused ischemic canine myocardium by CI-922, a new inhibitor of leukocyte activation.*
J Cardiovasc Pharmacol. 1988;12:608-614.
-
- Weyrich AS, Buerke M, Albertine KH, Lefer AM.** *Time course of coronary vascular endothelial adhesion molecule expression during reperfusion of the ischemic feline myocardium.*
J Leukoc Biol. 1995;57:45-55.
-

Bibliography of One Hundred Key Papers

-
- Williams FM.** *Neutrophils and myocardial reperfusion injury.*
Pharmacol Ther. 1996;72:1-12.
-
- Yao Z, Gross GJ.** *Activation of ATP-sensitive potassium channels lowers threshold for ischemic preconditioning in dogs.*
Am J Physiol. 1994;267(5, pt 2):H1888-H1894.
-
- Yao Z, Mizumura T, Mei DA, Gross GJ.** *K_{ATP} channels and memory of ischemic preconditioning in dogs: synergism between adenosine and K_{ATP} channels.*
Am J Physiol. 1997;272(1, pt 2):H334-H342.
-
- Youker K, Smith CW, Anderson DC, et al.** *Neutrophil adherence to isolated adult cardiac myocytes. Induction by cardiac lymph collected during ischemia and reperfusion.*
J Clin Invest. 1992;89:602-609.
-
- Youker KA, Hawkins HK, Kukielka GL, et al.** *Molecular evidence for a border zone vulnerable to inflammatory reperfusion injury.*
Trans Assoc Am Physicians. 1993;106:145-154.
-
- Zweier JL.** *Measurement of superoxide-derived free radicals in the reperfused heart: evidence for a free radical mechanism of reperfusion injury.*
J Biol Chem. 1988;263:1353-1357.
-