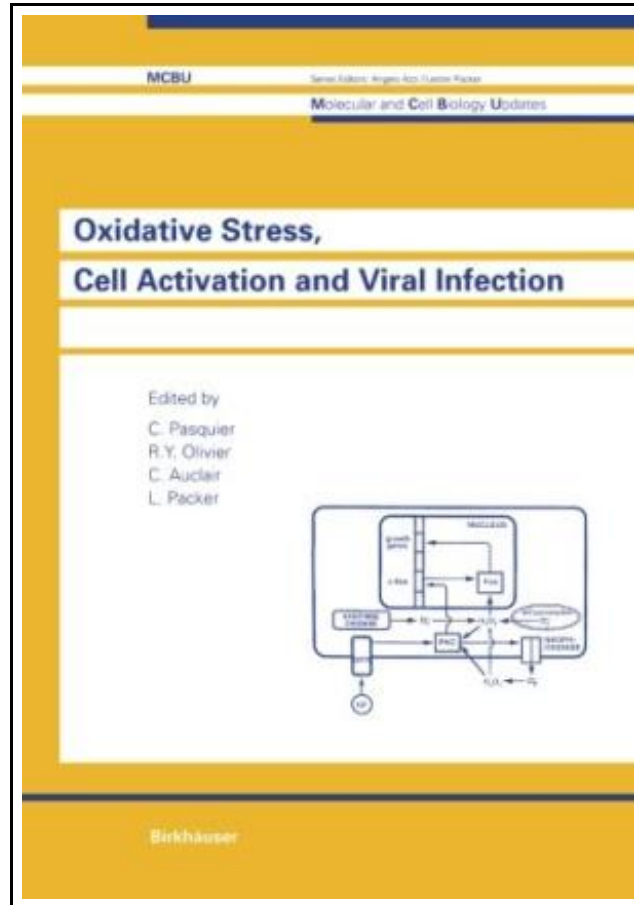


Oxidative Stress, Cell Activation and Viral Infection



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Reviews

This ebook is very gripping and fascinating. Sure, it is engage in, nevertheless an amazing and interesting literature. It is extremely difficult to leave it before concluding, once you begin to read the book.

(Ms. Ora Buckridge)

OXIDATIVE STRESS, CELL ACTIVATION AND VIRAL INFECTION



Book Condition: New. Publisher/Verlag: Springer, Basel | Since the appearance of photosynthesis on our planet, all living organisms have been facing a new abundant, extremely reactive element, oxygen. This element is used for the synthesis of highly energetic compounds, but can also generate molecules capable of damaging constituents of living structures, including proteins, nucleic acids and lipids. It is therefore no surprise that all biological organisms have evolved multiple and sophisticated ways to reduce the detrimental effects of oxygen. For cells and tissues of highly organized animals, particularly cells of the immune system, superoxidation products play an important role, via oxidative stress, in activation, inflammation and viral and bacterial infections. We must be grateful to Drs. C. Pasquier, C. Auclair, L. Packer and R. Olivier for having brought together many specialists in an international meeting held in Paris in March 1993, at the Ministry of Research. This book comprises an impressive amount of recent knowledge, a real mine for the reader in this fast developing field of research. Furthermore, we should not forget that this basic research may lead in the future to new therapeutic approaches to the most important pathologies of the latter part of this century, including AIDS. | DNA glycosylases involved in the repair of oxidized bases in *Escherichia coli*.- Potential role of protein oxidation and proteasome in antigen processing.- Involvement of hydrogen peroxide in the actions of TGF β 1.- Oxidative stress and growth factor-mediated signal transduction.- Cellularly generated active oxygen species as signals in the activation of tumour cell growth.- Effect of oxygen radicals on the IL-1 production by monocytes and IL-2 receptor expression in lymphocytes during primary and secondary immunodeficiency.- The effect of reactive oxygen species (ROS) on human T and B lymphoid cells.- Leukocyte adhesion and endothelial cytokine production in hypoxia/reoxygenation.- Effects of antioxidants...



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