

## OXIDATIVE DAMAGE TO NUCLEIC ACIDS%0A

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## Oxidative Damage To Nucleic Acids In Severe Emphysema

Oxidative stress is a key element in the pathogenesis of emphysema, but oxidation of nucleic acids has been largely overlooked. The aim of this study was to investigate oxidative damage to nucleic acids in severe emphysematous lungs.

Repair of oxidative DNA damage by amino acids | Nucleic ...

The implication is that amino acid residues in DNA binding proteins such as histones might be able to repair by an electron transfer reaction the DNA damage produced by the direct effect of ionizing radiation or by other oxidative insults.

Oxidative DNA damage in mild cognitive impairment and late ...

Oxidative damage to these biomolecules can contribute to loss of function leading to exacerbation of damage. The brain is particularly susceptible to oxidative damage due to its high oxygen consumption rate ( 1/5th consumed oxygen), its high-energy demands, rich abundance of polyunsaturated fatty acids and lipids, and the relatively limited antioxidant capacity relative to other organs ( 15 ). Oxidative Damage to Nucleic Acids Photosensitized by ...

Oxidative damage to cellular RNA and DNA, assessed by measurement of 8-oxoG and 8-oxodG, may be viewed as an indication of oxidative stress in the cytoplasmic and nuclear compartments of cells. Our results indicate that treatment of human skin fibroblasts with TiO<sub>2</sub> and UVA produces significant cytoplasmic oxidative stress, measured as formation of 8-oxoG in RNA.

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Oxidative Damage to Nucleic Acids Mark D. Evans, B.Sc., Ph.D. Radiation and Oxidative Stress Group Department of Cancer Studies and Molecular Medicine Oxidative Damage to Nucleic Acids - worldcat.org Oxidative Damage to Nucleic Acids. [Mark D Evans; Marcus S Cooke] Home. WorldCat Home About WorldCat Help. Search. Search for Library Items Search for Lists Search for Contacts Search for a Library. Create lists, bibliographies and reviews; or Search WorldCat. Find items in libraries near you.

The Role of Oxidative Damage to Nucleic Acids in the ...

Oxidative damage to DNA can be caused by excited oxygen species, which are produced by radiation or are by-

products of aerobic metabolism. The oxidized base, 8-hydroxydeoxyguanosine (oh8dG), 1 of

### **Oxidative Damage to Nucleic Acids and Benzo(a)pyrene-7,8 ...**

Oxidative stress, characterized by a high degree of reactive oxygen species (ROS), is known to induce damage to cellular components including strand breaks and base modifications in nucleic acids . Oxidative damage to nucleic acids has been found to be associated with a variety of diseases including cancer and aging, but the precise mechanisms are still remaining to be elucidated [2, 3].

### **Oxidative Stress: Effects on Lipids, Proteins, and DNA ...**

Oxidative damage to DNA causes alterations in DNA bases. If left unrepaired, the modifications of DNA bases in turn lead to genetic defects. Since guanine is especially susceptible to oxidation, 8-hydroxy-deoxyguanosine has been traditionally utilized as a biomarker of oxidative DNA damage.

### **Oxidative Stress and Nucleic Acid Oxidation in Patients ...**

Patients with chronic kidney disease (CKD) have high cardiovascular mortality and morbidity and a high risk for developing malignancy. Excessive oxidative stress is thought to play a major role in elevating these risks by increasing oxidative nucleic acid damage. Oxidative stress results from an imbalance between reactive oxygen/nitrogen species (RONS) production and antioxidant defense mechanisms and can cause vascular and tissue injuries as well as nucleic acid damage in CKD patients. The

### **Markers of oxidative damage to lipids, nucleic acids and ...**

Oxidative stress and decreased cellular responsiveness to oxidative stress are thought to influence brain aging and Alzheimer's disease, but the specific patterns of oxidative damage and the underlying mechanism leading to this damage are not definitively known.

### **Oxidative damage in nucleic acids and Parkinson's disease ...**

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This book provides an up-to-date coverage of selected topics in the area of nucleic acid oxidation. The topics have been selected to cover everything from basic chemical mechanisms, repair of

### **Nucleic Acid Oxidation in DNA Damage Repair and Epigenetics**

1. Introduction. Methylation is a widely occurring chemical modification in nucleic acids and proteins. Methylating agents, either extracellular or intracellular, can attack vulnerable sites in DNA, which can lead to cytotoxic and/or cancerogenic DNA damages.