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edition of this well-  
established book is  
thoroughly revised and  
gives a comprehensive  
account of the role of  
free radicals, other  
reactive species (RS),  
and antioxidants in life,  
health, and disease.  
Chapter 1 reviews how  
oxygen ( $O_2$ ) is used by

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**Free radicals: How do they affect the body?**

Free radicals in biology: oxidative stress and the effects of ionizing radiation.

Riley PA(1). Author information:

(1)Department of Molecular Pathology, UCL Medical School, London, UK. The most important electron acceptor in the biosphere is molecular oxygen which, by



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virtue of its bi-radical nature, readily accepts unpaired electrons to give rise to a series of partially reduced species collectively known as reduced (or 'reactive') oxygen species (ROS).

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Atom, molecule, or ion

that has an unpaired

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valence electron; typically highly reactive. "Free radical" redirects here. For the aging theory, see Free-radical theory of aging. For other uses, see Free radical (disambiguation). This article is about free radicals.

## **Radical (chemistry) - Wikipedia**

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text in the field of free radical and antioxidant research since its first publication in 1985. This latest edition has been comprehensively rewritten and updated (over 80% of the text is new), while maintaining the clarity of its predecessor. There is expanded coverage of isoprostanes and related compounds, mechani.

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Free radical biology has become a big research area. This text is definitely a helpful tool for students and professionals alike. Halliwell and Gutteridge are both the "authorities" in free radical research. The book contains the basic concepts of metabolism, metal

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One subject which would be of interest to researchers involved in free radical biology, addresses mechanisms of chromosomal damage or aberrations and the circumstances by

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which damage via gene translocations leads to the expression of otherwise dormant oncogenes.

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The Free Radical and Radiation Biology Program (FRRBP) is a graduate program at The University of Iowa and is a division of the Department of

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Free radicals are formed naturally as products of metabolic processes and can also be introduced from outside the body through smoking, inhaling environmental pollutants, or exposure to ultraviolet radiation.

They interact readily

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with nearby molecules and may cause cellular damage, including genetic alterations.

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