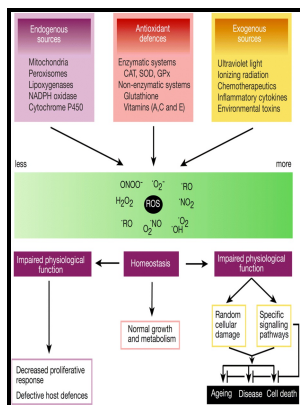


# Reactive metabolites of oxygen and nitrogen in biology and medicine

## R.G. Landes - Role of Reactive Metabolites of Oxygen and Nitrogen in Inflammatory Bowel Disease: Toxins, Mediators, and Modulators of Gene Expression

Description: -



- Nuclear power plants -- Florida -- Safety measures  
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 Active oxygen -- Physiological effect  
 Free radicals (Chemistry) -- Physiological effect  
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 - Medical intelligence unit  
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 Notes: Includes bibliographical references (p. [85]-100) and index  
 This edition was published in 1992



Filesize: 26.48 MB

Tags: #The #production #of #reactive #oxygen #and #nitrogen #species #by #skeletal #muscle

## Role of Reactive Metabolites of Oxygen and Nitrogen in Inflammatory Bowel Disease: Toxins, Mediators, and Modulators of Gene Expression

A role for peroxiredoxins in H<sub>2</sub>O<sub>2</sub>- and MEKK-dependent activation of the p38 signaling pathway.

### Effects of reactive oxygen and nitrogen metabolites on RANTES

We conclude that the protective effects of I-NAME or AG in models of intestinal or colonic injury and inflammation are not due to reductions in blood flow to these organs when administered orally at the doses we used.

### Reactive oxygen and nitrogen species and glutathione: key players in the legume

It is known that PG synthetase contains two enzymatic activities including cyclooxygenase and hemoprotein hydroperoxide peroxidase activities. Neutrophil-derived oxidants promote leukocyte adherence in postcapillary venules.

### Reactive metabolites of oxygen and nitrogen in biology and medicine (1992 edition)

Moreover, as ROS are produced by the plant partner, it would also be of interest to analyse the consequences of modifying plant ROS-scavenging or ROS-producing activities on the symbiotic capacities. It is known that certain oxidants, bacterial or viral products, cytokines, or lipid mediators will activate NF- $\kappa$ B, resulting in the up-regulation of a number of different proinflammatory cytokines IL-1, IL-2, IL-6, IL-8, adhesion molecules ICAM-1, VCAM-1, E-selectin, and enzymes iNOS as well as up-regulation of NF- $\kappa$ B and I- $\kappa$ B.

### Effects of reactive oxygen and nitrogen metabolites on RANTES

John R, Outhwaite J, Morris CJ, et al. Redox Biology 2019, 25, 101094. Redox phospholipidomics of enzymatically generated oxygenated

phospholipids as specific signals of programmed cell death.

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Then,  $\gamma$ ECS- and GSHS-defective mutant strains SmgshA and SmgshB, respectively derived from wild-type S. However, the concentrations of 5-ASA required to inhibit these reactions range from 1 to 10 mM, which is substantially higher than the 0.

**Apel, K. and Hirt, H. (2004) Reactive Oxygen Species Metabolism, Oxidative Stress, and Signal Transduction. Annual Review of Plant Biology, 55, 373**

Prototypical example of redox relay in  $H_2O_2$  signalling.

**Apel, K. and Hirt, H. (2004) Reactive Oxygen Species Metabolism, Oxidative Stress, and Signal Transduction. Annual Review of Plant Biology, 55, 373**

Accordingly, major advances have occurred in understanding the role of these oxidants in physiology and disease, including the nervous, cardiovascular and immune systems, skeletal muscle and metabolic regulation as well as ageing and cancer.

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