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diagnosis,  
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& Reactive  
Oxygen Species  
& How to  
Boost our Cells  
Antioxidant  
Systems ~~What Are~~

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What is

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Stress, Free

Radicals \u0026

Antioxidants |

Katie Rose

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Free radicals

(Reactive oxygen

species) ~~Oxygen~~

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~~Free Radicals  
Damage the Body  
Free Radical  
Mediated  
Pathogenesis of  
Cell Injury ++  
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Biology ++  
Reactive Oxygen  
Species~~

**BIOCHEMISTRY :**

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**\u0026**

**ANTIOXIDANTS -**



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## **Part 1** Biology And

*Antioxidants //*

*Antioxidants*

*Biochemistry //*

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*Scavengers*

You'll Never

Guess The

Biggest Cause of

Inflammation

Causing Free

Radicals

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Glutathione: The

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antioxidants...

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How Antioxidants

Work and Where

to Get Them

*What*

*happens to your*

*body when having*

*oxidative*

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~~Antioxidants~~ How  
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~~Anyway?!~~ WANT  
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~~boost your~~  
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*oxidative stress  
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(HD)*

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and Reactive  
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(ROS) ||

Introduction to  
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Free Radicals,  
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Glutathione,  
Superoxide NADPH  
Oxidase N

Acetylcysteine

CGD MPO CCl4

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BIOCHEMISTRY:

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\u0026

ANTIOXIDANTS - 2

Free radical

concept by Dr.

Devesh Mishra

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Organic

Chemistry || GOC

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08 : FREE  
RADICAL and  
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Reaction

Intermediate 02

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~~EXERCISE INDUCED~~

~~OXIDATIVE~~

~~STRESS: HISTORY,~~

~~CAUSE, AND~~

~~CONSEQUENCES~~

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Free radicals

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are molecules with unpaired electrons. They rob other cells of electrons, causing damage and contributing to many diseases.

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Medicine is as  
wide as the  
horizon and as  
deep as the  
ocean: nobody  
can ever dream  
to  
satisfactorily  
capture it in  
the limited  
space available  
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review. The target audience that will undoubtedly profit from this gigantic work is equally wide: biologists, biochemists, medical doctors, nutritionists, therapists with a sound background.

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oxygen radicals  
and other RS;  
their chemistry  
is detailed in  
Chapter 2,  
especially for  
superoxide,  
hydroxyl radical  
(including  
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chemistry),  
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These include  
superoxide  
( $O_2^-$ ), hydrogen  
peroxide ( $H_2O_2$ ),  
hydroxyl radical  
( $HO\cdot$ ) and  
peroxyl ( $ROO\cdot$ )  
and alkoxy  
( $RO\cdot$ ) radicals  
which may be



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involved in the initiation and propagation of free radical chain reactions and which are potentially highly damaging to cells.

Mechanisms have evolved to restrict and control such processes,

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partly by compar  
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partly by  
antioxidant  
defences such as  
chain-breaking  
antioxidant  
compounds  
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stable free  
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ascorbate, ...

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mechanisms which  
allow useful  
roles for ROS,  
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little is known  
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in human health,  
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How do they  
affect the body?**

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research in the  
redox biology of  
both health and  
disease. We  
focus on signal  
transduction and  
redox signaling;  
oxidative  
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nitrosative  
stress; aging



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and age-related  
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valence And

electron. With  
some exceptions,  
these unpaired  
electrons make  
radicals highly  
chemically  
reactive. Many  
radicals  
spontaneously  
dimerize. Most  
organic radicals  
have short  
lifetimes.

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