

METADATA

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Abstract

A'. The first part of the book provides an extensive introduction to the basic concepts of the terms "free radicals", "reactive oxygen species" and "oxidative stress". In separate chapters the following topics are developed: 1. Biochemical mechanisms of free radical formation in cells. 2. Effects of the formation of "Active Forms of Oxygen" in cells. 3. Defence mechanisms.

B'. The second part of the book describes the physiological actions of 'Reactive Oxygen Forms', with the following individual chapters: 1. "Active Oxygen Forms" and intracellular signal transduction. 2. 'Reactive oxygen species' and transcription factor activation; 3. 'Reactive oxygen species' and cell proliferation. 4. 'Active oxygen species', apoptosis and autophagy.









