1. Record Nr. UNINA9910830034203321

Titolo	Oxygen free radicals and tissue damage [[electronic resource]]
Pubbl/distr/stampa	Amsterdam ; ; New York, : Excerpta Medica, 1979
ISBN	0-470-71541-3 0-470-71510-3
Descrizione fisica	1 online resource (392 p.)
Collana	Ciba Foundation symposium ; ; 65 (new ser.)
Disciplina	574.1/921
Soggetti	Active oxygen in the body Active oxygen - Toxicology Pathology, Cellular Radicals (Chemistry) - Physiological effect
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Oxygen Free Radicals and Tissue Damage; Contents; Chairman's introduction; The chemistry of dioxygen and its reduction products; Discussion; Hydroxyl radicals and biological damage in uitro: what relevance in uivo?; Discussion; Reaction rates of superoxide radicals with the essential amino acids; Discussion; Formation of copper-superoxide complexes; Interactions between iron metabolism and oxygen activation; Discussion; Superoxide dismutases: defence against endogenous superoxide radical; Discussion; Glutathione peroxidase: fact and fiction; Discussion; Biosynthesis of prostaglandins DiscussionMechanisms of protection against the damage produced in biological systems by oxygen-derived radicals; Discussion; Zinc and NADPH-oxidation-dependent lipid peroxidation; Caeruloplasmin and serum antioxidant activity; Inflammatory cells and zinc; Lipid peroxidation: detection in viuo and in vitro through the formation of saturated hydrocarbon gases; Discussion; Dioxygen and the vitamin K-dependent synthesis of prothrombin; Discussion; Specific induction of pulmonary indoleamine 2,3-dioxygenase by bacterial lipopolysaccharide; Discussion Oxygen consumption by stimulated human neutrophilsDiscussion; Defects in the oxidative killing of microorganisms by phagocytic

leukocytes; Discussion; The role of myeloperoxidase in the microbicidal activity of polymorphonuclear leukocytes; Discussion; Fertilization of sea urchin eggs; The lactoperoxidase-thiocyanate-hydrogen peroxide antibacterium system; The pulmonary and extrapulmonary effects of ozone; Discussion; The pathology and biochemistry of paraquat; Discussion; Phagocyte-produced free radicals: roles in cyto- toxicity and inflammation; Discussion; GENERAL DISCUSSION
Carbonyl groups and carcinogenesisThe identity of the superoxide radical anion species; Closing remarks; Index of contributors; Subject index