1. Record Nr. UNINA9910642833003321 Oxygen free radicals and tissue damage [[electronic resource]] Titolo Amsterdam: New York, : Excerpta Medica, 1979 Pubbl/distr/stampa **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 Description based upon print version of record. Note generali 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 coppersuperoxide 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-

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