

1. Record Nr.	UNINA9910140823303321
Titolo	Biomarkers for antioxidant defense and oxidative damage : principles and practical applications // edited by Giancarlo Aldini ... [et al.]
Pubbl/distr/stampa	Ames, Iowa, : Wiley-Blackwell, 2010
ISBN	0-470-96175-9 1-282-71211-X 9786612712111 0-8138-1443-X 0-8138-1431-6
Descrizione fisica	1 online resource (381 p.)
Altri autori (Persone)	AldiniGiancarlo
Disciplina	613.2/86
Soggetti	Antioxidants Oxidative stress Active oxygen Biochemical markers
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 index.
Nota di contenuto	Antioxidant activity and oxidative stress : an overview / Kyung-Jin Yeum, Robert M. Russell, and Giancarlo Aldini -- Enzymatic antioxidant defenses / Sayuri Miyamoto, Hirofumi Arai, and Junji Terao -- Antioxidant as biomarkers of oxidative stress / Ikuyo Ichi and Shosuke Kojo -- LDL oxidation as a biomarker of antioxidant status / Mohsen Meydani, EunHee Kong, and Ashley Knight -- The isoprotanes : accurate markers and potent mediators of oxidant injury in vivo / Joshua D. Brooks ... [et al.] -- Hydroxyoctadecadienoic acid (HODE) as a marker of linoleic acid oxidation / Yasukazu Yoshida and Etsuo Niki -- Oxysterols : potential biomarkers of oxidative stress / Luigi Iuliano and Ulf Diczfalusy -- Lipid peroxidation originating unsaturated aldehydes and their metabolites as biomarkers / Françoise Gueraud -- Oxidation modification of proteins : an overview / Paul J. Thornalley and Naila Rabbani -- Immunochemical detection of lipid peroxidation-specific epitopes / Koji Uchida -- Mass spectrometric strategies for identification and

characterization of carbonylated peptides and proteins / Marina Carini and Marcia Orioli -- Nitrotyrosine : quantitative analysis, mapping in proteins, and biological significance / Jose Souza ... [et al.] -- Ubiquitin conjugates : a sensitive marker of oxidative stress / Fu Shang and Allen Taylor -- Covalent modifications of albumin cys34 as a biomarker of mild oxidative stress / Giancarlo Aldini, Kyung-Jin Yeum, and Giulio Vistoli -- Protein S-glutathionylation and S-cysteinilation / Graziano Colombo ... [et al.] -- DNA oxidation, antioxidant effects, and DNA repair measured with the comet assay / Maria Duinska and Andrew R. Collins -- Hydroxylated nucleotides : measurement and utility as biomarkers of DNA damage, oxidative stress, and antioxidant efficacy / Phyllis E. Bowen -- Exocyclic DNA adducts as biomarkers of antioxidant defense and oxidative stress / Roger W.L. Godschalk.

Sommario/riassunto

Biomarkers for Antioxidant Defense and Oxidative Damage: Principles and Practical Applications critically evaluates the basic concepts and methodologies of conventional biomarkers as well as current state-of-the-art assays for measuring antioxidant activity/oxidative stress and their practical applications. . Biomarkers for Antioxidant Defense and Oxidative Damage: Principles and Practical Applications will be of a great interest to scientists who are involved in basic research on oxidation, applied scientists evaluating the effects of nutraceuticals or pharmaceutical compounds o
