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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 Diczfalusi -- Lipid peroxidatin originating unsaturated aldehydes

and their metabolites as biomarkers / Francoise 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-glutathionilation 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
