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	9786612712111 9780470961759 0470961759 9781282712119 128271211X 9780813814438 081381443X 9780813814315 0813814316
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 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 cabonylated 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 -- Exocylic 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

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Autore	Weiland Claus
Titolo	Aerodynamic Data of Space Vehicles / / by Claus Weiland
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2014
ISBN	3-642-54168-2
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (360 p.)
Disciplina	532 533.62 620 621.4021
Soggetti	Aerospace engineering Astronautics Continuum mechanics Thermodynamics Heat engineering Heat transfer Mass transfer Aerospace Technology and Astronautics Continuum Mechanics Engineering Thermodynamics, Heat and Mass Transfer
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 at the end of each chapters and indexes.
Nota di contenuto	The Discipline Aerodynamics -- Classi¯cation and Comprehension of Space Vehicles -- Aerothermodynamic Data of Non-winged Re-entry Vehicles (RV-NW)Capsules and Probes -- Erothermodynamic Data of Non-winged Re-entry Vehicles (RV-NW) -- Cones and Bicones.
Sommario/riassunto	The capacity and quality of the atmospheric flight performance of space flight vehicles is characterized by their aerodynamic data bases. A complete aerodynamic data base would encompass the coefficients of the static longitudinal and lateral motions and the related dynamic coefficients. In this book the aerodynamics of 27 vehicles are

considered. Only a few of them did really fly. Therefore the aerodynamic data bases are often not complete, in particular when the projects or programs were more or less abruptly stopped, often due to political decisions. Configurational design studies or the development of demonstrators usually happen with reduced or incomplete aerodynamic data sets. Therefore some data sets base just on the application of one of the following tools: semi-empirical design methods, wind tunnel tests, numerical simulations. In so far a high percentage of the data presented is incomplete and would have to be verified. Flight mechanics needs the aerodynamic coefficients as function of a lot of variables. The allocation of the aerodynamic coefficients for a particular flight operation at a specific trajectory point is conducted by an aerodynamic model. The establishment of such models is described in this book. This book is written for graduate and doctoral students to give them insight into the aerodynamics of the various flight configurations. Further for design and development engineers in industry and at research institutes (including universities) searching for an appropriate vehicle shape, as well as for non-specialists, who may be interested in this subject. The book will be helpful, too, in the case that system studies require in their concept phases the selection of suitable vehicle shapes.