1. Record Nr. UNINA9910777041003321

Titolo	Oxidative stress, exercise, and aging / / Helaine M. Alessio, Ann E. Hagerman, editors
Pubbl/distr/stampa	London : , : Imperial College Press Hackensack, NJ : , : distributed by World Scientific Pub., , 2006 ©2006
ISBN	1-281-86722-5 9786611867225 1-86094-912-6
Descrizione fisica	1 online resource (xii, 171 pages) : illustrations
Altri autori (Persone)	AlessioHelaine M HagermanAnn E
Disciplina	612.22
Soggetti	Oxidative stress Exercise - Physiological aspects Aging - Physiological aspects
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	1. Chemistry of reactive oxygen species and antioxidants / D.C. Close and A.E. Hagerman 2. Oxidative stress in plants and animals / D.C. Close and A.E. Hagerman 3. The exercise continuum / R.L. Wiley 4. Oxidative stress and muscle size, type, and action / H.M. Alessio 5. Oxidative stress across the exercise continuum / H.M. Alessio 6. Oxidative stress and antioxidant defense: Effects of aging and exercise / L.L. Ji 7. Muscle, oxidative stress and aging / J.S. Moylan, W.J. Durham, and M.B. Reid 8. Aging, exercise, antioxidants, and cardioprotection / J. Quindry and S. Powers 9. Genetic expressions: oxidative stress, exercise, and aging / N.B. Schweitzer and H.M. Alessio
Sommario/riassunto	This book brings together some of the leading researchers in the actively investigated field of oxidative stress, an area of study which is of importance to human health and disease. It examines oxidative stress in a variety of models, at rest and after exercise, in young and old. Key concepts of oxidative stress, exercise and aging are presented in clear and easy-to-understand terms. Oxidative stress in different

types of exercises - isometric, isotonic and sports - is explained in detail, with several chapters focusing on acute and chronic adaptations of skeletal muscles following both aerobic and non-aerobic exercises. The book includes current knowledge of the underlying mechanisms influencing health and disease processes associated with oxidative stress.