

1. Record Nr.	UNINA9910452697603321
Titolo	Athlete performance and injuries [[electronic resource] /] / Joao H. Bastos and Andreia C. Silva, editors
Pubbl/distr/stampa	New York, : Nova Science Publisher's, c2012
ISBN	1-61942-659-5
Descrizione fisica	1 online resource (211 p.)
Collana	Sports and athletics preparation, performance, and psychology
Altri autori (Persone)	BastosJoao H SilvaAndreia C
Disciplina	617.1/027 617.1027
Soggetti	Sports injuries Sports - Competitions Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	""ATHLETE PERFORMANCE AND INJURIES""; ""ATHLETE PERFORMANCE AND INJURIES""; ""Library of Congress Cataloging-in-Publication Data""; ""CONTENTS""; ""PREFACE""; ""Chapter 1: EXERCISE, INJURIES AND ATHLETE PERFORMANCE""; ""ABSTRACT""; ""1. FREE RADICALS IN PHYSIOLOGICAL FUNCTIONS AND OXIDATIVE STRESS""; ""2. PHYSICAL EXERCISE - CLASSIFICATION""; ""3. EXERCISE ADAPTATION""; ""4. EXERCISE, OXIDATIVE STRESS AND INJURIES""; ""4.1. Skeletal Muscle""; ""4.2. Myocardium""; ""4.3. Liver""; ""4.4. Blood""; ""4.4.1. Erythrocytes""; ""4.4.2. Immune System""; ""4.4.3. Plasma""; ""4.4.3.1. Lipoproteins""; ""4.5. DNA""""5. ANTIOXIDANTS AGAINST SPORTS-RELATED INJURIES""; ""6. ATHLETEa€S PERFORMANCE""; ""7. GENETICS-BASED PERFORMANCE""; ""7.1. Polymorphisms Related to Oxidative Stress""; ""7.1.1. Polymorphisms of Antioxidant Enzymesa€? Genes""; ""7.1.1.1. Superoxide Dismutase (SOD)""; ""7.1.1.2. Catalase (CAT)""; ""7.1.1.3. Glutathione Peroxidase (GPX)""; ""7.1.2. Haptoglobin (Hp)""; ""7.2. I/D Polymorphism of the Angiotensin-Converting Enzyme (ACE)""; ""7.3. Polymorphisms Related to Aerobic Capacity""; ""7.3.1. Erythropoietin (EPO) and Polymorphisms in EPO Gene and Its Receptor (EpoR)""; ""7.3.2. Vascular Endothelial Growth Factor (VEGF) and Its Receptor

(VEGFR)""7.4. Polymorphisms Related to Muscle Energy, Structure and Strength""; ""7.4.1. Creatine Kinase (CK) and the Nco I and Taq I Polymorphisms in the 3' Untranslated Region of the CKM Gene""; ""7.4.2. R577X Polymorphism Alpha-Actinin 3 (ACTN3) Gene""; ""7.4.3. Myostatin (MSTN or GDF8)""; ""7.4.4. Insulin-Like Growth Factor-1 (IGF-1)""; ""7.5. Polymorphisms in the Cytokine Genes and Inflammation""; ""7.5.1. Tumor Necrosis Factor Alpha (TNF-a)""; ""7.5.2. Interleukins (IL)""; ""7.5.3. Methylene tetrahydrofolate Reductase (MTHFR) Gene""7.6. Some Considerations""; ""CONCLUSION""; ""REFERENCES""; ""Chapter 2: TRAINING OVER THE EDGE: UNDERSTANDING THE OVERTRAINING SYNDROME""; ""ABSTRACT""; ""INTRODUCTION""; ""MISCONCEPTION OF OVERTRAINING TERMINOLOGY""; ""UNDERSTANDING THE MULTIFACTORIAL ETIOLOGY""; ""Variations of the Hypothalamic-Pituitary-Adrenal Axis""; ""Imbalance of Circulating Amino Acids""; ""Cytokine and Inflammation""; ""THE ASSESSMENT OF OVERTRAINING""; ""Monitoring Performance""; ""Monitoring Heart Rate""; ""Immunological Parameters""; ""Hematological Parameters""; ""Hormonal Parameters""; ""Psychological Parameters""; ""PREVENTION AND TREATMENT OF OVERTRAINING SYNDROME""; ""CONCLUSION""; ""REFERENCES""; ""Chapter 3: EVALUATING THE DYNAMIC MODEL OF PSYCHOLOGICAL RESPONSE TO SPORT INJURY AND REHABILITATION""; ""ABSTRACT""; ""INTRODUCTION""; ""METHOD""; ""Participants""; ""Measures""; ""Procedure""; ""RESULTS""; ""Participant Characteristics""; ""Research Question Findings""; ""DISCUSSION""; ""CONCLUSION""; ""ABOUT THE AUTHORS""; ""REFERENCE""; ""Chapter 4: CARDIOMETABOLIC INJURY DUE TO RECOMBINANT HUMAN ERYTHROPOIETIN DOPING FOR IMPROVEMENT OF SPORTS PERFORMANCE: CHRONIC (TRAINING) VERSUS ACUTE (EXTENUATING) AEROBIC EXERCISE""

---