

1. Record Nr.	UNINA9910779506903321
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
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	<p>""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 yo Muscle Energy, Structure and Strength""; ""7.4.1. Creatine Kinase (CK) and the Nco I and Taq I</p>

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. Methylenetetrahydrofolate 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  
SPORTINJURY 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""

---