

1. Record Nr.	UNINA9910830252703321
Titolo	Olympic textbook of science in sport [[electronic resource] /] / edited by Ronald J. Maughan
Pubbl/distr/stampa	Chichester, UK ; ; Hoboken, NJ, : Wiley-Blackwell, 2009
ISBN	1-282-00756-4 9786612007569 1-4443-0331-7 1-4443-0332-5
Descrizione fisica	1 online resource (437 p.)
Collana	Encyclopaedia of sports medicine ; ; v. 15
Altri autori (Persone)	MaughanRon J. <1951->
Disciplina	613.7/11 613.711
Soggetti	Human mechanics Physical fitness - Physiological aspects Sports - Physiological aspects
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"An IOC Medical Commission publication."
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	List of Contributors; Foreword; Preface; Introduction: Sport, Science and Sports Science; Part 1Physiology and Biochemistry; Chapter 1Muscle: Producing Force and Movement; Chapter 2Physiological Demands of Sprinting andMultiple-Sprint Sports; Chapter 3Physiological Demands of Endurance Exercise; Chapter 4Physiological Adaptations to Training; Chapter 5Skeletal Muscle Metabolic Adaptations to Training; Part 2Nutrition; Chapter 6Nutrition Needs of Athletes; Chapter 7Dietary Goals and Eating Strategies; Chapter 8Hydration; Part 3Anthropometry; Chapter 9Body Composition and Sports Performance Part 4ImmunologyChapter 10Exercise Immunology; Chapter 11Exercise, Inflammation, and Metabolism; Part 5Cell Biology; Chapter 12Genetic Determinants of Physical Performance; Chapter 13Molecular Mechanisms of Adaptations to Training; Part 6Biomechanics, Engineering, and Ergonomics; Chapter 14Biomechanics of Human Movement andMuscle-Tendon Function; Chapter 15Sports Ergonomics; Part 7Psychology; Chapter 16Exercise and Psychological Well-being; Chapter 17Psychological Characteristics of Athletes andtheir Responses

to Sport-Related Stressors; Part 8Pharmacology
Chapter 18Performance-Enhancing DrugsPart 9Limitations to
Performance; Chapter 19Cardiorespiratory Limitations to Performance;
Chapter 20Metabolic Limitations to Performance; Chapter 21The Brain
and Fatigue; Part 10Special Populations; Chapter 22The Young Athlete;
Chapter 23The Female Athlete; Part 11Exercise and Health; Chapter
24Health Benefits of Exercise and Physical Fitness; Index

Sommario/riassunto

This new volume in the Encyclopaedia of Sports Medicine series, published under the auspices of the International Olympic Committee, delivers an up-to-date, state of the art presentation of the scientific aspects of conditioning, injury prevention, and competition. The book covers the key areas of scientific knowledge in sport and is divided into: physiology and biochemistry; nutrition; anthropometry; immunology; cell biology; biomechanics, engineering and ergonomics; psychology; pharmacology; limitations to performance; special populations; and exercise and health. Presented in
