



Doping in Sports: Biochemical Principles, Effects and Analysis [

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editor

Monografía

Doping in sports and the fight against it has gained increasing attention in recent years. The pharmacological basis for a possible performance enhancement in competitive sport through the administration of prohibited substances and methods as well as the analytical disclosure of such practices are comprehensively covered in 21 contributions by outstanding and distinctive authors

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Contenido: History of Doping and Doping Control -- Biochemical and Physiological Aspects of Endogenous Androgens -- Phase-II Metabolism of Androgens and Its Relevance for Doping Control Analysis -- Detecting the Administration of Endogenous Anabolic Androgenic Steroids -- Synthetic Anabolic Agents: Steroids and Nonsteroidal Selective Androgen Receptor Modulators -- Nandrolone: A Multi-Faceted Doping Agent -- Designer Steroids -- Growth Hormone -- Mass Spectrometry-Based Analysis of IGF-1 and hGH -- Insulin -- β -Adrenergic Stimulation -- Erythropoietin and Analogs -- Blood Transfusion in Sports -- The Athletes Biological Passport and Indirect Markers of Blood Doping -- Masking and Manipulation -- Hormonal Growth Promoting Agents in Food Producing Animals -- Some Aspects of Doping and Medication Control in Equine Sports -- Androgenic Anabolic Steroid Abuse and the Cardiovascular System -- Side Effects of Anabolic Androgenic Steroids: Pathological Findings and StructureActivity Relationships -- Gene Doping -- Science and the Rules Governing Anti-Doping Violations

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