

Doping In Sports: Biochemical Principles, Effects And Analysis

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Preface.- History of Doping and Doping Control. Biochemical and Physiological Aspects of Endogenous Androgens. Phase-II-metabolism of androgens and its relevancy for doping control analysis. Detecting the administration of endogenous anabolic androgenic steroids. Synthetic Anabolic Agents Steroids and Non-Steroidal Selective Androgen Receptor Modulators. Nandrolone a multi-faceted doping agent. Designer steroids. Growth hormone. Mass Spectrometry-based analysis of IGF-1 and hGH. Insulin. Beta-adrenergic stimulation. Erythropoietin and analogues. The athlete's 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. Pathological findings and structure-activity-relationships. Gene doping. Science and the Rules Governing Anti-Doping Violations. EAN/ISBN : 9783540790884 Publisher(s): Springer, Berlin Format: ePub/PDF Author(s): Thieme, Detlef - Hemmersbach, Peter

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