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Nota di contenuto	The medical and cultural history of testosterone and the testes / Eberhard Nieschlag, Susan Nieschlag -- Testosterone : biosynthesis, transport, metabolism and (non-genomic) actions / C. Marc Luetjens, Gerhard F. Weinbauer -- Pathophysiology of the androgen receptor / Olaf Hiort, Ralf Werner, Michael Zitzmann -- Methodology for measuring testosterone, dihydrotestosterone and sex hormonebinding globulin in a clinical setting / Manuela Simoni [and others] -- The behavioral correlates of testosterone / John Bancroft -- The role of testosterone in spermatogenesis / Liza O'Donnell, Robert I. McLachlan -- Androgens and hair : a biological paradox with clinical

consequences / Valerie Anne Randall -- Testosterone and bone / Dirk Vanderschueren [and others] -- Androgen effects on the skeletal muscle / Shalender Bhasin [and others] -- Testosterone and cardiovascular disease / Kevin S. Channer, T. Hugh Jones -- Testosterone, obesity, diabetes and the metabolic syndrome / T. Hugh Jones, Kevin S. Channer -- Testosterone and erection / Mario Maggi, Hermann M. Behre -- Testosterone and the prostate / John T. Isaacs, Samuel R. Denmeade -- Clinical use of testosterone in hypogonadism and other conditions / Eberhard Nieschlag, Hermann M. Behre -- Testosterone preparations for clinical use in males / Hermann M. Behre, Eberhard Nieschlag -- Androgens in male senescence / Jean-Marc Kaufman, Guy T'Sojen, Alex Vermeulen -- Androgen therapy in non-gonadal disease / David J. Handelsman -- Review of guidelines on diagnosis and treatment of testosterone deficiency / Ronald S. Swerdloff, Christina C.L. Wang -- Pathophysiology of estrogen action in men / Vincenzo Rochira, Daniele Santi, Cesare Carani -- Dehydroepiandrosterone and androstenedione / Bruno Allolio, Wiebke Arlt, Stefanie Hahner -- The state-of-the-art in the development of selective androgen receptor modulators / Ravi Jasuja, Mikhail N. Zacharov, Shalender Bhasin -- The essential role of testosterone in hormonal male contraception / Eberhard Nieschlag, Hermann M. Behre -- Testosterone use in women / Susan R. Davis -- Detection of illegal use of androgens and selective androgen receptor modulators / Wilhelm Schanzer, Mario Thevis -- Sequelae of doping with anabolic steroids / Elena Vorona, Eberhard Nieschlag.

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#### Sommario/riassunto

Now in its fourth edition *Testosterone: Action, Deficiency, Substitution* provides the most up-to-date and comprehensive source of information on testosterone and its role in human physiology and pathology. It covers biosynthesis and mechanisms of action and reviews their effects on brain and behavior, spermatogenesis, hair growth, bones, muscles, erythropoiesis, the cardiovascular system and the prostate. The therapeutic uses of testosterone preparations are carefully evaluated as well as its abuse and detection in competitive sport. This new edition also devotes sections to exploring the effects of testosterone on female physiology and sexual function, and the experimental use of testosterone in male hormonal contraception. *Testosterone: Action, Deficiency, Substitution* has been written and edited by world experts in the fields of clinical andrology and endocrinology and provides a unique and invaluable guide for andrologists, endocrinologists, urologists, internists and those working in reproductive medicine.

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