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Descrizione fisica	1 online resource (XV, 497 p. 57 illus., 48 illus. in color.)
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Nota di contenuto	Section-A Understanding spermatogenesis and male fertility -- 1. Overview of the male reproductive system -- 2. Embryonic development of testis -- 3.HPG axis: The central regulator of spermatogenesis and male fertility -- 4. Sperm maturation in epididymis -- 5. Sperm Capacitation: The obligate requirement for male fertility.-6. Genomic landscape of human Y chromosome and male infertility -- 7.Seminal decline in semen quality in humans over the last 80 years -- Section-B Causes of male infertility.-8. Evaluation of an infertile male.-9. Syndromic forms of male infertility.-10. Cystic fibrosis, CFTR gene, and male infertility.-11. Oxidative stress and male infertility.-12. Obesity, spermatogenesis, and male infertility.-13. Sexually transmitted infections and male infertility – old enigma, new insights.-14. Cytogenetic factors in male infertility.-15. Autosomal

genes in male infertility.-16. Sex chromosomal genes in male infertility.
-17. Male infertility: An epigenetic perspective.-18. Sperm chromatin
compaction and male infertility.-19. Proteomics of male infertility --
Section-C Management of male infertility -- 20. Advancing paternal
age The ticking biological clock -- 21. Food, nutrition, and male
fertility -- 22. Plant products in the management of male infertility --
23. Life style, fertility, and infertility management.-24. Preserving male
fertility.-25. Specific and generalized treatments of male infertility.-26.
Onco-fertility: Fertility preservation in cancer: Sameer Trivedi.-27.
Assisted reproductive techniques in infertility treatment: Opportunities
and challenges.

Sommario/riassunto

This book covers the latest research on male infertility. The topics discussed range from understanding the genetic basis of infertility, to its causes and treatment. Since infertility is also of great interest to the general public, the book also includes a detailed description of what infertility is and how one can understand the different types. Given the complex etiology of infertility, the book includes a number of chapters defining the known and probable causes of male infertility. Providing detailed information suitable for patients and clinicians alike, it also features a separate section on treatment, the ultimate goal.
