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Titolo	Antioxidants in Andrology // edited by Giancarlo Balercia, Loredana Gandini, Andrea Lenzi, Francesco Lombardo
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Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (VII, 79 p. 7 illus. in color.)
Collana	Trends in Andrology and Sexual Medicine, , 2367-0088
Disciplina	613.286
Soggetti	Andrology Endocrinology Endocrinology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Biochemistry of coenzyme Q10 -- Coenzyme Q10 in male infertility -- Carnitine in male infertility -- Free radicals in andrology -- Antioxidants in male sexual disorders -- Antioxidants in major accessory gland infections.
Sommario/riassunto	This book focuses on the use of various molecules with antioxidant properties in the treatment of major male genital tract disorders, especially male infertility, erectile dysfunction, and accessory gland infection. The coverage also includes discussion of pathophysiology, the molecular basis of male infertility, and the rationale for use of antioxidants, with particular attention to coenzyme Q10 and carnitine. Oxidative stress occurs when the production of reactive oxygen species, including free radicals, exceeds the body's natural antioxidant defences, leading to cellular damage. Oxidative stress is present in about half of all infertile men, and reactive oxygen species can produce infertility both by damaging the sperm membrane, with consequences for sperm motility, and by altering the sperm DNA. There is consequently a clear rationale for the use of antioxidant treatments within andrology, and various in vitro and in vivo studies have indicated that many antioxidants indeed have beneficial impacts. In providing a detailed and up-to-date overview of the subject, this book will be of interest to both practitioners and researchers in andrology,

endocrinology, and urology.
