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Titolo	Strategies to Ameliorate Oxidative Stress During Assisted Reproduction // by Ashok Agarwal, Damayanthi Durairajanayagam, Gurpriya Virk, Stefan S. Du Plessis
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Sources of ROS in ART -- Antioxidant Strategies -- Role of Combined Antioxidants -- Conclusion.
Sommario/riassunto	This book discusses the various antioxidants that are in use to overcome oxidative stress in an assisted reproduction setting. Antioxidant therapies may range from enzymatic and non-enzymatic antioxidants, either alone or in combination. While no one antioxidant regime has been identified as effective in improving fertilization and pregnancy rates, antioxidant supplementation has been shown to defend sperm cells from lipid peroxidation and oxidative damage to DNA, and thus improve pregnancy rates. The prevention of oxidative stress and its consequent damage is imperative to ensure a successful outcome of the in vitro fertilization procedure and embryo transfer. Strategies that could be employed to minimize or prevent the detrimental effects of OS during assisted reproduction include supplementation with various types of antioxidants.