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Nota di contenuto	Evolution of the sexual arena / Jack Cohen -- Role of sperm competition in reproduction / Tim Birkhead -- Sperm production and delivery in mammals, including man / Hector Dott, Tim Glover -- Local control of spermatogenesis / Kate Lakoski Loveland, David de Kretser -- Some misconceptions of the human epididymis / Roy Jones -- Transport of spermatozoa to the egg and fertilization success / Jackson Brown, Steve Publicover, Chris Barratt -- Changes in human male reproductive health / Stewart Irvine -- ICSI : the revolution and the portents / Herman Tournaye -- Genetic basis of male infertility / Pasquale Patrizio, Diana Broomfield -- Treatment of azoospermia with surgery and ICSI / Sherman Silber -- Challenge of asthenozoospermia / Chris Ford -- Molecular techniques for the diagnosis of inherited

disorders and male reproductive malfunction / Ian Findlay, Justin St John -- Gazing into the crystal ball : future diagnosis and management in andrology / Jim Cummins, Anne Jequier.

Sommario/riassunto

This contemporary account of male fertility provides a much needed bridge between those seeking to understand the subject from an evolutionary and biological perspective and those with clinical responsibility for the investigation and treatment of infertility. Accordingly, the first half of the book deals with the evolutionary aspects of male reproduction and sperm competition, sperm production and delivery in man and other animals, spermatogenesis and epididymal function, sperm transport in the female tract and the apparent decline in human sperm count. The second part of the book puts greater emphasis on clinical problems and opens with a discussion of intracytoplasmic sperm injection, its value and limitations. This is followed by a review of modern developments in the genetics of male fertility and proceeds to a further chapter on the role of surgical procedures used in the treatment. Semen analysis is critically reviewed and the molecular techniques now being used in preimplantation diagnosis and in the study of mitochondrial inheritance are fully described. Taken together these chapters, written by an international team of authors, illustrate the breadth of vision needed to tackle the problem of male fertility.