Record Nr. UNINA9910787769703321 Textbook of clinical embryology / / edited by Kevin Coward, Dagan **Titolo** Wells [[electronic resource]] Pubbl/distr/stampa Cambridge:,: Cambridge University Press,, 2013 **ISBN** 1-316-08865-0 1-107-27216-5 1-107-27165-7 1-107-27700-0 1-107-27823-6 1-107-27374-9 1-107-27497-4 1-139-19273-6 Descrizione fisica 1 online resource (xv, 391 pages) : digital, PDF file(s) Collana Cambridge Medicine Disciplina 612.6/4018 Soggetti Human reproductive technology Reproduction Infertility Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Title from publisher's bibliographic system (viewed on 05 Oct 2015). Includes bibliographical references and index. Nota di bibliografia Machine generated contents note: Foreword; Preface; Part I. Mammalian Nota di contenuto Reproductive Physiology: 1. Sexual reproduction: an overview Suzannah A. Williams; 2. Sexual development Andy Greenfield; 3. Male reproductive tract and spermatogenesis Joaquin Gadea, John Parrington, Junaid Kashir and Kevin Coward; 4. Female reproductive tract and oocyte development Suzannah A. Williams; 5. Ovulation and regulation of the menstrual cycle Farah El-Sadi, Anas Nader and Christian Becker; 6. Key events in early oogenesis affecting oocyte competence in women Geraldine Hartshorne; 7. Regulation of gonadal function Nicolas Vulliemoz and Christian Becker: 8. Reproductive endocrinology Enda McVeigh; 9. Reproductive immunology Ian Sargent; 10. Sperm biology and maturation Bill Holt and Jane Morrell; 11. Fertilization and egg activation Junaid Kashir, Celine Jones, John

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Sommario/riassunto

The success of Assisted Reproductive Technology is critically dependent upon the use of well optimized protocols, based upon sound scientific reasoning, empirical observations and evidence of clinical efficacy. Recently, the treatment of infertility has experienced a revolution, with the routine adoption of increasingly specialized molecular biological techniques and advanced methods for the manipulation of gametes and embryos. This textbook - inspired by the postgraduate degree program at the University of Oxford - guides students through the multidisciplinary syllabus essential to ART laboratory practice, from basic culture techniques and micromanipulation to laboratory management and quality assurance. and from endocrinology to molecular biology and research methods. Written for all levels of IVF practitioners, reproductive biologists and technologists involved in human reproductive science, it can be used as a reference manual for all IVF labs and as a textbook by undergraduates, advanced students, scientists and professionals involved in gamete, embryo or stem cell biology.