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Nota di contenuto	Part I: Ultrasonography in animal reproduction -- Ultrasonography in goats during pregnancy -- Ultrasonographic pregnancy diagnosis in the mare -- Part II: Applying ART to female horses and cattle -- Commercial equine embryo transfer programs: some topics on how to improve efficiency -- Developmental programming and assisted reproduction technologies in cattle -- Part III: The impact of assisted reproduction on production systems -- Reproductive management of donkeys in milk production programs -- Effect of stress on reproduction and reproductive technologies in male and female, beef and dairy cattle -- The Effects of Stress on Equine Reproduction and Welfare -- The Use of Assisted Reproductive Technologies to Improve Genetic Selection in Cattle -- Part IV: The importance of male factors in ART -- Assessment of Boar Sperm Quality: New Diagnostic Techniques -- The role of seminal plasma in the equine reproduction -- Male effect during in vitro production of bovine embryos -- Sperm mitochondria: Quantitative Regulation and its Impact on Sperm Quality

-- Part V: Gametematerna interactions in the establishment of pregnancy -- The dialogue into the sow genital tract: an essential process for fertility -- Early embryonic development in the mare: From Fertilization to Implantation -- The Role of the Oviduct in Gameto-Maternal Interaction and Embryonic Development.

#### Sommario/riassunto

This Volume 1 of a two-volume topical collection highlights reproductive biotechnologies applied to males and females of different animal species. Organized in five parts, you will find a detailed review of the most relevant topics for reproduction management in equines, cattle, swine, and small ruminants. The authors discuss genomic selection, the use of ultrasound, sperm evaluation and conservation, oocyte retrieval, embryonic development, and significant clinical aspects such as stress and physiological impacts, including thermal conditions. Each contributor brings an own perspective, knowledge, and writing style, resulting in the latest research results, advances, and current trends in assisted reproductive technologies. The volume also includes case studies and hands-on examples to provide readers with real-life applications. The practical approach will enhance the learning experience and differentiates this work from mainly theoretical literature. Specifically tailored to the professional audience within the field of assisted animal reproduction, this book will update veterinarians, researchers, animal breeders, and advanced students. By presenting innovative techniques and approaches not widely covered in other works, this volume offers new perspectives and ideas for reproductive management.