

1. Record Nr.	UNINA9910298407803321
Titolo	Animal Biotechnology 1 : Reproductive Biotechnologies // edited by Heiner Niemann, Christine Wrenzycki
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-92327-7
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (VII, 304 p. 43 illus., 40 illus. in color.)
Disciplina	636.08
Soggetti	Biomedical engineering Veterinary medicine Animal genetics Genetic engineering Biomedical Engineering/Biotechnology Veterinary Medicine/Veterinary Science Animal Genetics and Genomics Genetic Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Evolution of Animal Breeding and Animal Biotechnology -- 2. Future Agricultural Animals: The Need for Biotechnology -- 3. Artificial Insemination in Domestic and Wild Animal Species -- 4. Technique and Application of Sex Sorted Sperm in Domestic Farm Animals -- 5. ET-Technologies in Domestic Cattle -- 6. ET-Technology in Small Ruminants -- 7. ET-Technology in Domestic Pigs -- 8. ET-Technologies in Horses -- 9. Endoscopy in Cattle Reproduction -- 10. Transvaginal Ultrasound-Guided Oocyte Retrieval (OPU: Ovum Pick-Up) in Cows and Mares -- 11. Preservation of Gametes and Embryos -- 12. In vitro Production of Farm Animal Embryos.
Sommario/riassunto	This two-volume textbook provides a comprehensive overview on the broad field of Animal Biotechnology with a special focus on livestock reproduction and breeding. The reader will be introduced to a variety of state-of-the-art technologies and emerging genetic tools and their applications in animal production. Also, ethics and legal aspects of

animal biotechnology will be discussed and new trends and developments in the field will be critically assessed. The two-volume work is a must-have for graduate students, advanced undergraduates and researchers in the field of veterinary medicine, genetics and animal biotechnology. This first volume mainly focuses on artificial insemination, embryo transfer technologies in diverse animal species and cryopreservation of oocytes and embryos.
