

1. Record Nr.	UNINA9910298394003321
Titolo	Animal Biotechnology 2 : Emerging Breeding Technologies // edited by Heiner Niemann, Christine Wrenzycki
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-92348-X
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (VIII, 303 p. 46 illus., 40 illus. in color.)
Disciplina	660.65
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. Somatic Cloning of Livestock by Somatic Cell Nuclear Transfer -- 2. Commercial Applications of SCNT in Livestock -- 3. Epigenetic Features of Animal Biotechnologies -- 4. Current Status of Genomic Maps, Genomic Selection/GBV in Livestock -- 5. Embryo Biopsies for Genomic Selection -- 6. Production of Transgenic Livestock: Overview of Transgenic Technologies -- 7. DNA-Nucleases and Their Use in Livestock Production -- 8. Regulatory Dysfunction Inhibits the Development and Application of Transgenic Livestock for use in Agriculture -- 9. Genetically Engineered Large Animals in Biomedicine -- 10. Stem Cells and Cell Conversion in Livestock -- 11. The Legal Governance of Animal Biotechnologies -- 12. Ethical Aspects of Animal Biotechnology -- 13. Public Perception of Animal Biotechnology.
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 second volume is dedicated to genetic tools in animal biotechnology such as somatic cloning, transgenic technologies and the application of stem cells in livestock breeding. Also, ethics and legal aspects are discussed.
