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Titolo	Pio La Torre dirigente del PCI / a cura di Tommaso Baris e Gregorio Sorgonà ; prefazione di Francesco Giasi ; saggi di Tommaso Baris ... [et al.]
Pubbl/distr/stampa	Palermo, : Istituto poligrafico europeo, 2018
ISBN	978-88-96251-75-1
Descrizione fisica	203 p. ; 24 cm
Collana	Saggi / Istituto Gramsci siciliano ; 6
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Collocazione	COLLEZ 3530 (6)
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2. Record Nr.	UNINA9910544849403321
Titolo	Stem Cells in Veterinary Science // edited by Ratan Kumar Choudhary, Shanti Choudhary
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2021
ISBN	981-16-3464-5
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (370 pages)
Collana	Biomedical and Life Sciences Series
Disciplina	616.02774
Soggetti	Developmental biology Veterinary medicine Genetics Developmental Biology and Stem Cells Veterinary Science Genetics and Genomics Veterinary Clinical Medicine
Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Part 1: Overview And Introduction -- 1 Overview of Stem Cells and Their Applications in Veterinary Medicine -- 2 Introduction to Mammary Gland and its Cell Types -- 3 Mammary Stem Cells: How Much Do We Know? -- 4 Methods of Identification and Characterization of Stem Cells -- 5 Potential of Stem Cell Therapy to Combat Mastitis in Dairy Animals -- PART 2: STEM CELLS AND VETERINARY RESEARCH -- 6 Fatty Liver Disease and Utility of Stem Cells in Developing the Disease Model -- 7 Mammary Epithelial Cells: A Potential Cellular Model to Understand the Impact of Heat Stress on Mammary Gland and Milk Production in Dairy Animals -- 8 Milk and Milk-Derived Stem Cells -- 9 Cryopreservation of Testicular Stem Cells and its Application in Veterinary Science -- 10 Testicular Stem Cell Niche -- 11 Proteomics of Mammary Cell Lines and Mammary Stem Cells -- PART 3: THERAPEUTIC APPLICATIONS -- 12 Advancing Quantitative Stem Cell Dosing for Veterinary Stem Cell Medicine.-13 Mesenchymal Stem Cells: a novel therapy for the treatment of Bovine Mastitis -- 14 Therapeutic Applications of Mesenchymal Stem Cells in Canine Diseases -- 15

Biomaterials and Scaffolds in Stem Cell Therapy -- 16 Prospects of Mesenchymal Stem Cell Secretome in Veterinary Regenerative Therapy -- 17 Reprogramming and Induced pluripotent stem cells in porcine -- 18 CRISPR/Cas System and Stem Cell Editing: Prospects and Possibilities in Veterinary Sciences -- PART 4: ISSUES AND PERSPECTIVES -- 19 Identification of Species-Specific Stem Cells and Challenges -- 20 Regulations of Animal Cell-Based Drugs in Veterinary Regenerative Medicine. .

Sommario/riassunto

This book explores the potential applications of animal stem cells in veterinary medicine. It begins with an overview of stem cells and their application in treating various animal diseases, including mastitis. In turn, the book discusses the challenges of using stem cells in regenerative medicine and emphasizes the importance of understanding the action of stem cells and preclinical evidence for ensuring safety and therapeutic efficacy. It also presents methods for the identification, characterization, and quantification of stem cells. Further, it discusses the therapeutic applications of different stem cells, including milk-derived, testicular, and mesenchymal stem cells in veterinary medicine. Lastly, it discusses strategies for and therapeutic applications of genome editing by CRISPER/Cas9 in mammary stem cells. As such, the book offers a valuable resource for students and scientists working in the veterinary sciences and veterinarians.
