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Lingua di pubblicazione	Inglese
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2. Record Nr.	UNINA9911053120803321
Titolo	Breeding, Genetics and Safety Production of Dairy Cattle
Pubbl/distr/stampa	MDPI - Multidisciplinary Digital Publishing Institute, 2023
Descrizione fisica	1 online resource (168 p.)
Soggetti	Biology, life sciences Research & information: general Technology, engineering, agriculture
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Sommario/riassunto	The integration of various omics information-such as DNA, RNA, protein, and epigenetic regulation-brings new opportunities for the mining of important economic traits of animals and the analysis of molecular genetic mechanisms. Over the last three decades, world milk production has increased by more than 59%, from 530 million tonnes to 843 million tonnes. However, the genetic mechanisms behind milk fat traits remain largely undetermined. Milk is rich in fatty acids, proteins, and eight essential amino acids needed by the human body. The fatty acids in milk, namely, dodecyclic acid, myristic acid, stearic acid, and palmitic acid, are the main energy substances in the human

body, accounting for approximately 5, 10, 8, and 27 % of total fatty acids, respectively. Thus, decoding the genetics of milk fat traits can have a potential impact on product development, international trade, and consumption of milk components. This Special Issue focuses on applying the aforementioned advances to explore gene regulation and its molecular mechanisms in milk fat traits. The topics include but are not limited to: Research and application surrounding the genetic basis of important milk fat traits; Mining and function of excellent genetic resources for milk fat traits; Genetics of nutrition metabolism regulation and efficient production of milk fat; Epigenetic research on genes implicated in milk fat traits; High-throughput sequencing research surrounding genetics of milk fat traits; Construction of gene (including circRNA, lincRNA, miRNA, and mRNA) expression regulatory network maps.
