



Breeding, Genetics and Safety Production of Dairy Cattle

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Message from the Guest Editors

Over the last three decades, world milk production has increased from 530 million tonnes to 843 million tonnes. Yet, the genetic mechanisms behind milk fat traits remain largely undetermined. Thus, decoding the genetics of milk fat traits can have a potential impact on product development, international trade, and consumption of milk components. This SI will focus on applying the aforementioned advances to explore gene regulation and its molecular mechanisms in milk fat traits. We would like to welcome investigators in relevant fields to contribute original research, reviews, and method articles. Potential subtopics of interest 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.





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Message from the Editor-in-Chief

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