Genetics and Breeding of Cattle

Guest Editor:

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Message from the Guest Editor

Thus far, many genes/QTLs/SNPs for the production, reproduction, immunity, disease resistance and heat tolerance of dairy cows have been identified based on the strategies of QTL mapping, candidate gene analysis, genome-wide association study and next-generation sequencing. However, there is a major challenge not only in systematically analyzing these data and formulating new hypotheses but also effectively utilizing them for genetic improvement of dairy cows. Therefore, it is very important to systematically and deeply explore the functional genes and mutations with important breeding value through new strategies and technologies.

This Special Issue aims to collect high-quality original research articles, mini-reviews and full-length reviews to address emerging challenges, focusing on the topic of "Genetics and Breeding of Dairy Cows". Our topic welcomes, but is not necessarily limited to, progress in the knowledge of the aforementioned issues. Contributions by experts in the field in the form of research papers and critical reviews are called for.

Special Issue

Editor-in-Chief

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Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

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