Farm Animal Gene Exploration

Guest Editor:

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Deadline for manuscript submissions:
closed (30 June 2021)

Message from the Guest Editor

To assign the function of genes before the genomic era, the target genes were individually explored through molecular biological techniques and populational genetics. And the quantitative trait loci (QTLs) identification regarding economic traits using the selective useful markers was one of the most important jobs for breeding and genetic achievements in livestock. After the development of DNA chips whole genomes of species, it has been more effective and feasible to find major candidate genes or loci using the genome-wide association study, even some traits have very low heritabilities. More recently, after the development of next-generation sequencing (NGS) technology, studies have not only focused on genomes, but also transcriptomes to identify the functional genes for target traits including the conventional economic traits and the brand new issues like disease resistance and immune response. We invite papers that discuss the function of genes in any kind of livestock using the recent advanced molecular genetic technologies, and/or using the whole genomic and transcriptomic NGS data. We also welcome submissions of prospective novel approaches to identify functional genes.

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Special Issue

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Message from the Editor-in-Chief

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