Special Issue

Genetic Diversity Assessment and Marker-Assisted Selection in Ruminants Livestock

Message from the Guest Editor

There are more than 1500 breeds of ruminants worldwide, representing a huge amount of phenotype diversity in growth, fertility, and the production of meat, milk, and wools. This provided us with ideal animal models to assess the genetic diversity and identify the functional genes or genetic markers correlated with these traits of economic value. Theoretical and simulation studies show that the advantage of using marker-assisted selection can be substantial. particularly when marker information is used, because normal selection is less effective, for example, for sexlimited or carcass traits. Emerging genomic technologies could allow large numbers of polymorphic sites to be identified. This type of approach, combined with cheap and high density markers, could largely facilitate the breeding process in ruminants livestock. Therefore, this Special Issue aims to report on recent studies in genetic/genomic diversity assessment, functional genes/markers identification and markerassisted selection in ruminant livestock, including cow, cattle, yak, buffalo, sheep, goat, camel and so on.

Guest Editor

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