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Integrative Omics Technologies and Machine Learning Approaches in Animal Production

Guest Editor:

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Deadline for manuscript submissions:

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Message from the Guest Editor

Dear Colleagues,

Advances in molecular biology have revolutionized research in livestock production. The application of genomics. transcriptomics. metatranscriptomics. nutrigenomics, metagenomics, proteomics, metabolomics has not only provided the opportunity to decipher the genomic architecture underlying traits of interest but also enhanced our understanding of the molecular basis of growth, reproduction, and carcass merit, as well as the role of selection and nutrition and of other environmental factors. There is also a growing interest in the use of semi- and non-parametric methods for genomic prediction, because the conventional approach of using linear regression models has been said to ignore gene-gene interactions and higher order nonlinearities. In this context, machine learning approaches provide interesting alternatives for marker-based genomic selection and omics approaches.

This Special Issue invites manuscripts that apply omics technologies and those that utilize any machine learning approach in livestock production.

Dr. Sunday Peters *Guest Editor*













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Message from the Editor-in-Chief

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