



Modeling Genotype by Environment Interaction for Precision Farming and Improved Animal Welfare

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Message from the Guest Editors

Dear Colleagues,

Precision livestock farming and selection for animal welfare show an inherent advantage of including genotype by environment interactions. This involves scouting for new data sources (e.g. sensors), testing or refining statistical models (e.g. machine learning), unravelling genomic regions associated with such interactions, and engaging livestock industry stakeholders about the potential of these new methods and approaches (e.g. interactive selection index composition).

We invite original research papers, literature reviews and technical notes that address the topic of selection for novel and innovative traits incorporating the modelling of genotype by environment interactions. List of topics includes, but is not limited to: use of sensors in measuring phenotypes or determining condition, selection and genomic basis of tolerance to thermal stress, modelling of longitudinal data, behavioral genomics, and genetic by environment interaction in the determination of relevant breeding goals and product quality traits. Papers having any livestock species as subject are welcome.

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Guest Editors





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Message from the Editor-in-Chief

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