# **Special Issue**

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

# Message from the Guest Editors

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.

### **Guest Editors**

Prof. Francesco Tiezzi

Dr. Luiz F. Brito

Prof. Breno Fragomeni

## Deadline for manuscript submissions

closed (31 December 2021)



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Animals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
animals@mdpi.com

mdpi.com/journal/ animals





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# **About the Journal**

# Message from the Editor-in-Chief

Animals is an on-line open access journal that was first published in 2011. Animals adheres to rigorous peerreview and editorial processes and publishes only high quality manuscripts that address important issues in the many varied disciplines that involve animals, with a focus on animal science, animal welfare and animal ethics. Animals is covered in the Science Citation Index Expanded (SCIE) in Web of Science, with the latest Impact Factor: 2.7 (2024, ranks 15/86 (Q1) in 'Agriculture, Dairy & Animal Science'; 21/170 (Q1) in 'Veterinary Sciences'), 5-Year Impact Factor: 3.2.

### Editor-in-Chief

Prof. Dr. Clive J. C. Phillips

Institute of Veterinary Medicine and Animal Sciences, Estonian University of Life Sciences, Kreutzwaldi 1, 51014 Tartu, Estonia
 Curtin University Sustainability Policy (CUSP) Institute, Kent St., Bentley 6102, Australia

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