

## Special Issue

# Genomic Selection for Quantitative Traits in Animals

### Message from the Guest Editor

Since genomic selection started in 2009 in the US for dairy cattle, millions of animals have been genotyped. When genetic evaluation started with BLUP, genetic improvement was accelerated as accuracy in EBV increased. Now in the genomic era, because of the capacity to utilize SNP marker information as genotypes, more efficient genomic selection became possible. The genetic gain will increase significantly more, as accuracy in genomic EBV is higher using genomic relationships among animals, selection intensity is larger with more genotyped animals, and the generation interval is reduced by genotyping at younger age. In the future, genotyping embryos for many generations in a short period of time using germ cells from embryonic stem cells before having phenotypes will be possible. As a result, the genetic gain will be enormous. Genomic selection has such huge potential. Studies on genomic selection for quantitative traits will be more exciting and important than ever. Any research on genomic selection including theory, practical application, and biological aspects will be welcomed.

---

### Guest Editor

Dr. Shogo Tsuruta

Department of Animal and Dairy Science, University of Georgia, Athens, GA, USA

---

### Deadline for manuscript submissions

closed (31 August 2022)



## Animals

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.7  
CiteScore 5.2  
Indexed in PubMed



[mdpi.com/si/58959](https://mdpi.com/si/58959)

*Animals*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[animals@mdpi.com](mailto:animals@mdpi.com)

[mdpi.com/journal/  
animals](https://mdpi.com/journal/animals)





# Animals

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.7  
CiteScore 5.2  
Indexed in PubMed



[mdpi.com/journal/  
animals](https://mdpi.com/journal/animals)



## 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

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

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, PubAg, AGRIS, Animal Science Database, CAB Abstracts, and other databases.

#### Journal Rank:

JCR - Q1 (Veterinary Sciences) / CiteScore - Q1 (General Veterinary)