



*animals*



an Open Access Journal by MDPI

## Evolution of Genetic Diversity in Domestic Animals

Guest Editor:

**Dr. Gwendal Restoux**

Université Paris-Saclay, INRAE,  
AgroParisTech, GABI, 78350,  
Jouy-en-Josas, France

Deadline for manuscript  
submissions:

**closed (31 December 2021)**

### Message from the Guest Editor

Dear Colleagues,

Genetic diversity within breeds, plays a key role in the sustainability of animal breeding through the conservation of breeds. It acts at three time scales: i) short-term, through the expression of inbreeding depression with potential strong deleterious effects on both performance and fitness traits, ii) middle-term, through the maintenance of additive genetic variance and subsequent genetic gain toward selection goals, and iii) long-term, allowing adaptation to new, potentially harsh, environments (climate change, pathogens, free-range agriculture...).

We invite original research papers that address the question of genetic diversity in domestic animal populations. This could involve the fine characterization of genetic diversity and its evolution in response to breeding conditions or the environment. We are also interested in papers helping to refine our knowledge on the management and use of genetic diversity through real data or simulation studies. Additional topics include opinion papers about the use of genetic resources not only from a genetic perspective but also from a policy perspective, with particular emphasis on stakeholders.



[mdpi.com/si/47401](https://mdpi.com/si/47401)

**Special** Issue



an Open Access Journal by MDPI

## 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

## 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 (2023, ranks 10/80 (Q1) in 'Agriculture, Dairy & Animal Science'; 16/167 (Q1) in 'Veterinary Sciences'), 5-Year Impact Factor: 3.0.

## 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)

## Contact Us

---

*Animals* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/animals](http://mdpi.com/journal/animals)  
[animals@mdpi.com](mailto:animals@mdpi.com)  
[X@Animals\\_MDPI](#)