



animals



an Open Access Journal by MDPI

Advances in the Cytogenetics of Livestock

Guest Editor:

Dr. Ewa Wójcik

Institute of Animal Science and
Fisheries, Siedlce of University, 14
Prusa St., 08-110 Siedlce, Poland

Deadline for manuscript
submissions:

31 July 2026

Message from the Guest Editor

Dear Colleagues,

Cytogenetics is a branch of genetics dealing with the study of chromosomes, their number and structure, and the mechanisms that they undergo. Cytogenetic techniques make it possible not only to observe chromosomes, but also to perform quantitative and qualitative assessments of the karyotype of a given animal species. In situ fluorescence hybridization, comparative genomic hybridization, flow cytometry, and other methods are currently used with great success. Many cytogenetic assays are used to identify damage to genetic material. This branch of genetics has found application in a wide variety of biological and veterinary studies, as well as in studies on the breeding and improvement of livestock animals. Genome stability and integrity are extremely important factors influencing animal health and functioning. The karyotype analysis of farm animals via various genetic techniques will make it possible to broaden knowledge and present new scientific achievements. Cytogenetic assays and their results will enable the selection of animals for desired traits or the culling of animals with genomic instability, thus contributing to genetic progress in livestock.



mdpi.com/si/197461

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Clive J. C. Phillips

1. Curtin University Sustainable Policy (CUSP) Institute, Curtin University, Kent St., Bentley, Western Australia 6102, Australia
2. Former Foundation Professor of Animal Welfare, University of Queensland and Foundation Director, Centre for Animal Welfare and Ethics, University of Queensland, Brisbane, 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 (2024, ranks 15/86 (Q1) in 'Agriculture, Dairy & Animal Science'; 21/170 (Q1) in 'Veterinary Sciences'), 5-Year Impact Factor: 3.2.

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

mdpi.com/journal/animals
animals@mdpi.com
[X@Animals_MDPI](#)