

## Special Issue

# Vertebrate Cytogenomics: Insights into Genome and Chromosome Evolution

### Message from the Guest Editors

The rapid advancement of cytogenomic technologies has revolutionized our understanding of vertebrate genome organization and chromosomal evolution. This Special Issue aims to bring together cutting-edge research that explores the interplay between chromosomal architecture, genome dynamics, and evolutionary processes across diverse vertebrate lineages. We welcome original research articles, reviews, and methodological papers that employ classical cytogenetics, molecular cytogenetics and modern cytogenomic approaches to investigate topics such as karyotype evolution, sex chromosome differentiation, the role of repetitive DNA in genome organization, and chromosomal rearrangements in speciation and adaptation. Contributions focusing on underrepresented taxa, comparative approaches, and integrative studies combining cytogenetic and genomic data are especially encouraged. By highlighting novel insights and encouraging interdisciplinary perspectives, this Special Issue aims to advance our understanding of the mechanisms driving genome and chromosome evolution in vertebrates and to stimulate future research directions in this rapidly evolving field.

### Guest Editors

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### Deadline for manuscript submissions

31 July 2026



## 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.

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