

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

Dr. Rafael Kretschmer

Laboratório de Citogenética e Evolução, Departamento de Genética, Instituto de Biociências, Universidade Federal do Rio Grande do Sul, Porto Alegre 91509-900, RS, Brazil

Prof. Dr. Thales Renato Ochotorena De Freitas

Laboratory of Cytogenetics and Animal Evolution, Department of Genetics, Federal University of Rio Grande do Sul (UFRGS), Porto Alegre, Brazil

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

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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

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