

## Special Issue

# Perspectives of Stem Cells in Wildlife: From Domestic Animal Models to Applications in Conservation of Endangered Species

### Message from the Guest Editor

The in vitro derivation of differentiated cell lineages from pluripotent stem cells (PSCs) has become an exciting strategy for obtaining functional cells. Because PSCs have unlimited proliferation capacity and high differentiation potential, they can be induced to form cell types from all three germ layers, including germ cell (GC) lineages. This capacity makes PSCs one of the most promising cell sources for regenerative and biotechnological applications in human and veterinary medicine. In wild animal conservation, PSCs may offer an innovative way to preserve genetic diversity in breeding programs for endangered species. As part of these programs, deriving gametes in vitro may be useful, provided that abundant gametes can be continually generated and banked from wild specimens or from prepubertal, azoospermic, or dead animals. This Special Issue focuses on recent advances in PSC studies in wild species, including descriptive work on PSC biology and the development of PSC technologies in domestic animals with potential use in wildlife conservation.

### Guest Editor

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### Deadline for manuscript submissions

1 July 2026



## Animals

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**Impact Factor 2.7**  
**CiteScore 5.2**  
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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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### Editor-in-Chief

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