

## Special Issue

# Unsolved Problems in Reproductive Biology - Current and Forthcoming Advances in Assisted Reproduction Technologies

### Message from the Guest Editor

Although assisted reproduction technologies (ART) have had a significant boost over the past three decades, the propulsive thrust seems to have come to a halt. Firstly, while the different species share general principles of reproductive biology, substantial differences in the biology of the gametes might exist between species. As a consequence, the techniques and strategies successfully applied in a given species are not immediately transferable to another one. Secondly, in addition to individual biological variability, the poor quality of the gametes intended for ART and the difficulty of reproducing in vitro the conditions suitable to ensure the correct functionality of the gametes are critical limiting factors. We invite original research papers and review articles that address the improvement of reproductive performance with innovative approaches and/or proofs of principle studies. The overall aim is to shed light on animal reproductive biology and increase the translational aspects of assisted reproduction technologies both in animal breeding, conservation of threatened species and the human clinic.

### Guest Editor

Prof. Dr. Alberto Maria Luciano

Department of Health, Animal Science and Food Safety Reproductive and Developmental Biology Lab, Università degli Studi di Milano, Milan, Italy

### Deadline for manuscript submissions

closed (28 February 2022)



## Animals

an Open Access Journal  
by MDPI

Impact Factor 2.7  
CiteScore 5.2  
Indexed in PubMed



[mdpi.com/si/30873](https://mdpi.com/si/30873)

*Animals*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[animals@mdpi.com](mailto:animals@mdpi.com)

[mdpi.com/journal/  
animals](https://mdpi.com/journal/animals)





# Animals

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.7  
CiteScore 5.2  
Indexed in PubMed



[mdpi.com/journal/  
animals](https://mdpi.com/journal/animals)



## 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.

---

### 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

---

### 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)