



Assisted Reproductive Technologies (ARTs) in Domestic Mammals

Guest Editors:

Prof. Dr. Salvador Ruiz López

Department of Physiology,
University of Murcia, 30100
Murcia, Spain

**Prof. Dr. Juan Carlos Gardón
Poggi**

Department of Medicine and
Animal Surgery, Faculty of
Veterinary and Experimental
Sciences, Catholic University of
Valencia San Vicente Mártir,
46001 Valencia, Spain

Prof. Dr. Jordi Miró Roig

Equine Reproduction Service,
Department of Animal Medicine
and Surgery, Faculty of Veterinary
Sciences, Autonomous University
of Barcelona, E-08193 Bellaterra,
Spain

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Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to publish papers on **Assisted Reproductive Technologies** (ARTs). The focus of ARTs in domestic species was concerned with genetic improvement or production aimed at allowing the livestock industry to respond to continually increasing demands for improved productivity and quality, as well as the conservation of rare or endangered breeds or species. Biomedical applications of these technologies have been pursued in domestic mammals as possible models applicable to human clinical conditions or with potential application in therapeutic drug development.

Research areas in this SI may include but are not limited to below biotechnologies:

- Artificial insemination** with timed fixed AI programs and studies on resynchronization estrus and ovulation
- Biotechnologies for **semen evaluation**
- In vivo embryo production**
- Ovum pick-up and **in vitro embryo production**
- Studies on **cryopreservation** of gametes and embryos
- Sexing** technologies of spermatozoa and embryos
- In vitro culture of **preantral follicles**
- Transgenesis** and somatic cell nuclear transfer
- Cloning**, new **gene editing** technologies and **epigenetic** modifications and their roles in animal reproduction



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Editor-in-Chief

Prof. Dr. Patrick Butaye

1. Department of Pathobiology,
Pharmacology and Zoological
Medicine, Faculty of Veterinary
Medicine, Ghent University,
Salisburylaan 133, B9820
Merelbeke, Belgium
2. Department of Infectious
Diseases and Public Health,
Jockey Club College of Veterinary
Medicine and Life Sciences, City
University of Hong Kong, 31 To
Yuen Street, Kowloon, Hong
Kong SAR 999077, China

Message from the Editor-in-Chief

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Veterinary Sciences Editorial Office
MDPI, Grosspeteranlage 5
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