



## Assisted Reproductive Technologies (ARTs) in Domestic Mammals

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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

# Special Issue



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## Message from the Editor-in-Chief

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