



BioMed Research International

Special Issue on

**Advances in Animal Reproductive Biotechnology**

# CALL FOR PAPERS

In the past decades, research topics have increasingly focused on animal reproductive biotechnologies in females and males. Some scenarios, as those involving livestock production in the cattle-breeding industry, prompted the increase in knowledge of assisted reproductive technologies (e.g., *in vitro* embryo production, oocyte and embryo manipulation, and cryopreservation) and reproductive physiology (e.g., gametogenesis and endocrinology) for farm species. In more recent years, the human pharmaceutical industry impelled the emerging technologies linked to genetic engineering of animals. Similarly, environmental concerns have supported the development of tools to save endangered species or high genetic-value animals such as cloning technologies.

Thus, researchers solved practical and experimental issues related to reproductive biotechnology in a broad range of animal species including cattle, goats, sheep, pigs, and rabbits between others. However, it is evident that there are numerous constraints and pitfalls to be overcome if reproductive biotechnologies are to make a significant positive contribution to the reproduction in some species, as wild animals, for example.

We invite scientists to submit original research as well as review articles that meet the general criteria of significance and scientific excellence and thus will afford substantial advances in the field of animal reproductive biotechnology. Papers will be published shortly after acceptance. We are particularly looking for new potential tools and methods leading to an expansion of knowledge on animal reproduction, by assisting in overcoming remaining unsolved challenges of assisted reproductive and emerging reproduction-related technologies.

Potential topics include, but are not limited to:

- ▶ Culture and cryopreservation of gametes and ovarian tissue
- ▶ Semen technologies
- ▶ *In vivo* and *in vitro* embryo production and cryopreservation
- ▶ Molecular searches in reproductive tissues, gametes, and embryos
- ▶ Animal genetic engineering
- ▶ Animal cloning and parthenogenesis
- ▶ Gene therapy applied to or researched in animals
- ▶ Omics in reproductive biotechnologies
- ▶ Assisted reproductive technologies
- ▶ Reproductive endocrinology
- ▶ Image techniques in animal reproduction
- ▶ Other emerging technologies in animal reproduction

Authors can submit their manuscripts via the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/bmri/biotechnology/aarb/>.

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## Manuscript Due

Friday, 23 September 2016

## First Round of Reviews

Friday, 16 December 2016

## Publication Date

Friday, 10 February 2017