Special Issue

Biotechnology of Animal Reproduction: Advances and Application

Message from the Guest Editors

Although the technical aspects of assisted reproductive techniques (ARTs) are very similar in humans and animals, they are used for very different purposes. In humans, the primary goal for couples experiencing fertility disorders is to have children, thus benefiting individual patients. In livestock, assisted reproductive techniques (ARTs) procedures are part of the breeding programmes of a given species or utility type and are aimed at obtaining a larger number of offspring from genetically valuable individuals, and thus benefit breeders. The third group encompasses wild animals at risk of extinction. Assisted reproduction makes it possible to obtain a much larger number of offspring compared to natural reproduction, which in the case of endangered species may be of key importance for their conservation programmes.

In this Special Issue, we will focus on the application of reproductive biotechnology in animals, the implications and potential of assisted animal reproduction, and the importance of transgenic animals in biomedicine and breeding.

Guest Editors

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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