

Special Issue

Stem Cells in Animal Reproduction

Message from the Guest Editor

Stem cells are widely known for their high potential for self-renewal and differentiation and their vast range of possible applications in regenerative and translational medicine. Adult stem cells have already proven applicable in numerous cellular therapy protocols; however, the derivation and maintenance of pluripotent cells in domestic species are still challenging. The use of multipotent or pluripotent stem cells and their derivatives (extracellular vesicles, recellularized scaffolds, etc.) may enable innovative possibilities in regenerative and reproductive veterinary medicine due to their ability to differentiate into a variety of other cell types or else to produce important signaling factors. Therefore, this Special Issue aims to congregate recent studies on the importance of the use of stem cells in animal reproduction, including possibilities of its use in regenerative protocols or else seeking the correction of infertility with recent advances in the generation of functional gametes in vitro, an essential contribution of stem cells for both the conservation of species in risk of extinction, and also for agricultural and biomedical applications.

Guest Editor

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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.

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