

Special Issue

Reproductive Biotechnology Advances in Animal Sperm and Embryos

Message from the Guest Editor

Reproductive biotechnology has significantly advanced the management of animal sperm and embryos, enhancing genetic preservation and fertility outcomes.

Sperm Preservation and Cryopreservation

Cryopreservation remains a cornerstone for the storing of genetic material. Recent studies have focused on mitigating cryodamage by incorporating antioxidants into freezing media, improving sperm motility and post-thaw viability. **Embryo Production and Genetic**

Preservation In vitro fertilization (IVF) techniques have enabled the creation of embryos from various species, including kangaroos, using sperm from deceased animals. This approach aids in conserving genetic diversity, particularly for endangered species. **Emerging Technologies** Innovative sperm selection methods, including electrophoresis and those utilizing microfluidic devices, are being developed to enhance the quality of sperm used in assisted reproductive technologies.

These technologies aim to identify and isolate the most viable sperm, improving fertilization success rates.

Guest Editor

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Message from the Editor-in-Chief

Veterinary Sciences (ISSN 2306-7381) is an international and interdisciplinary scholarly open access journal that aims at publishing research in all fields of veterinary medicine in a democratic way. We encourage scientists to publish their original research articles, reviews, communications, and short notes in as much detail as possible. Articles submitted that involve subjecting animals to unnecessary pain or suffering will not be accepted, and all articles must be submitted with the necessary ethical approval (please refer to the Ethical Guidelines for more information).

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