Special Issue

Novel Strategies for Synchronization and Resynchronization of the Estrous Cycle in Beef Cattle

Message from the Guest Editors

Efficient reproductive management remains a cornerstone of profitable and sustainable beef cattle production. While strategies for synchronizing the estrous cycle have already been widely researched, this Special Issue aims to highlight novel emerging strategies for not only synchronization but resynchronization of the estrous cycle (to facilitate additional services with artificial insemination, additional opportunities for embryo transfer, etc.). We welcome original research articles, reviews, and short communications exploring (but not limited to) the following themes:

- Novel hormonal synchronization and resynchronization protocols facilitating artificial insemination or embryo transfer;
- Integration of estrous synchronization with breeding strategies or genomic selection;
- Incorporation of sex-selection technologies such as sex-sorted semen;
- Economic evaluations of timed AI and resynchronization strategies;
- Physiological mechanisms underpinning synchronization success;
- Emerging delivery systems (e.g., biodegradable implants, needle-free injection);
- Application of precision livestock technologies (e.g., activity monitors, hormone biosensors).

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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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