

Special Issue

Modulating Immunometabolism in Transition Dairy Cows

Message from the Guest Editors

The transition period in dairy cows is one of the key stages of the entire productive cycle of the dairy cow. Management of the transition cow should focus on minimizing the adverse impacts of negative energy and protein balance, the severity of hypocalcemia, other macro- and microminerals, a reduction in ketosis, the excessive release of non-esterified fatty acids (NEFA), hepatic lipidosis, displacement of the abomasum, inflammatory disorders (metritis and mastitis), and oxidative stress. In addition, the adaptation of the rumen to diets richer in starch, and therefore, a reduction in the risk of rumen acidosis, must be addressed. In the end, any of these management strategies will help in modulating the immune system, reducing the negative impact of the typical immunosuppression that occurs around parturition. We invite original research and review papers that contribute new information on immunomodulation and metabolism during the transition period of dairy cows. Research and review papers may cover basic research topics, but manuscripts focused on practical management, including case reports, epidemiological studies, and field trials, are also encouraged and welcomed.

Guest Editors

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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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