Special Issue

The Identification of Genes and Metabolic Networks: Unlocking Dairy Livestock Production

Message from the Guest Editors

The mammary gland is the most important economic organ of dairy livestock. Recent evidence has suggested that lipid metabolism, amino acid metabolism, and carbohydrate metabolism greatly modify the development and lactation process of the mammary gland. With the advantage of a variety of omics techniques, a few genes and metabolic networks that regulate the process of development and lactation of mammary gland have been investigated. Even so, the remaining genes and gene networks that play a role in the mammary gland are unclear, hindering the process of improving dairy livestock production using genetic breeding and precision nutritional manipulation.

The aim of this Special Issue is therefore to improve our knowledge about the genes and gene pathways in dairy livestock, with special emphasis on the metabolism, development, and function of the mammary gland. We would particularly welcome manuscripts that assess gene function, new gene identification, gene networks related to metabolism, and the development of the mammary gland in dairy livestock.

Guest Editors

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Deadline for manuscript submissions

closed (15 November 2024)

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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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