

Special Issue

Research on the Nutrition and Physiology of Dairy and Beef Cattle

Message from the Guest Editors

Ruminants play a fundamental role in global agriculture by providing milk and meat rich in bioactive nutrients essential to the human diet and, in many regions, cattle farming forms the backbone of rural economies and supports local livelihoods. Due to their ability to digest crude fiber, ruminants can convert fibrous forages, which are inedible to humans, into nutritious food products. Nutrition is one of the key factors influencing the physiology of dairy and beef cattle, as well as the ultimate quality of animal-derived products. There is growing interest in nutritional strategies that enhance production efficiency, support animal welfare, and promote the sustainable development of agriculture.

This Special Issue aims to present insights into nutrition's impact on physiological processes in dairy and beef cattle, and to analyze how nutritional strategies affect the quality and characteristics of products such as milk and meat. Additionally, nutrition is key to colostrum quality, a critical factor in calf rearing and the economic success of cattle production. Nutritional effectiveness is assessed through specific indicators found in colostrum, milk, blood, and muscle tissue.

Guest Editors

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Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

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