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Gastrointestinal Physiology and Livestock Nutrition: Impact on Health and Productivity

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Message from the Guest Editors

The application of basic biomedical techniques has substantially contributed to the identification of physiological functions of the gastrointestinal tract in ruminants, pigs, and poultry. These techniques include approaches to characterize both basic functional properties as well as the molecular structures of a huge variety of epithelial parameters. In addition, the availability of state-of-the-art sequencing techniques, including bioinformatics, has provided deep insight into the physiological microbial community of the gastrointestinal tract. Profound new regulatory principles of many gastrointestinal parameters have been identified, upgrading many classical concepts of gastrointestinal regulation, with special emphasis on livestock nutrition. This also represents a link between basic gastrointestinal physiology and pathophysiology, as well as a link with qualitative and quantitative aspects of nutrition. The knowledge about these previously only poorly assessable associations helps to identify the criteria relevant to the health and productivity of livestock. This Special Issue aims to present data on these interrelations in the relevant livestock species.



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Special Issue



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Message from the Editor-in-Chief

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