



## Ruminant Digestion and Nutrient Absorption

Guest Editors:

**Prof. Giuseppe Martino**

Faculty of BioScience and  
Technology for Food, Agriculture  
and Environment, University of  
Teramo, Via Renato Balzarini 1,  
64100 Teramo, TE, Italy

**Dr. Andrea Ianni**

Faculty of Bioscience and  
Technology for Food and  
Agriculture, University of Teramo,  
Via Renato Balzarini 1, 64100  
Teramo, TE, Italy

**Dr. Francesca Bennato**

Faculty of Bioscience and  
Technology for Food, Agriculture  
and Environment, University of  
Teramo, 64100 Teramo, TE, Italy

### Message from the Guest Editors

The different components of diet and their metabolites, the lack or excess of nutrients, and the use of supplements can all interfere with gene expression and cellular functions. In addition, animal nutrition is the principal factor in maintaining the balance of rumen microbiota, which plays a crucial role in feed digestion, nutrient absorption, and immune and endocrine functions. Ruminant digestion and nutrient absorption also influence animal health, the quality of products (milk and meat), and levels of polluting emissions. The aim of this Special Issue, entitled “Ruminant Digestion and Nutrient Absorption”, is to collect studies concerning the relationship between the development of new feeding strategies able to affect rumen fermentation and nutrient absorption, with a look at the effects on product quality. Contributions on any of these topics or others related to them, including original research papers and literature reviews, are welcome in this Special Issue.

Deadline for manuscript  
submissions:

**closed (20 December 2023)**





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Les Copeland

Sydney Institute of Agriculture,  
School of Life and Environmental  
Sciences, The University of  
Sydney, Sydney, NSW 2006,  
Australia

## Message from the Editor-in-Chief

*Agriculture* (ISSN 2077-0472) is an international, crossdisciplinary and scholarly open access journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. *Agriculture* is published in an open access format – research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the public have unlimited and free access to the content as soon as it is published.

## Author Benefits

**Open Access:**— free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubAg, AGRIS, RePEc, and other databases.

**Journal Rank:** JCR - Q1 (*Agronomy*) / CiteScore - Q2 (*Plant Science*)

## Contact Us

---

*Agriculture*  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/agriculture  
agriculture@mdpi.com  
@AgricultureMdpi