

## Special Issue

# The Regulation and Mechanism of Nutrition on the Formation of Meat Quality

### Message from the Guest Editor

Dietary nutrients are key factors that affect the meat quality in livestock and poultry. How do these nutrients regulate the meat quality, though, and what are the underlying mechanisms? To produce high-quality meat, it is necessary to understand the formation process of meat quality traits and the factors that control them. A greater understanding of the underlying mechanisms of nutritional regulation on meat quality will lead to novel strategies to improve livestock and poultry meat product quality.

Therefore, this Special Issue invites studies (original research papers or reviews) on the current state of knowledge of the subject. Specifically, this Special Issue should include, but is not limited to, the latest advances in the molecular mechanisms of dietary nutrients (nutrition level and diet composition, prebiotics and probiotics, gut microbiota, bioactive compounds, etc.) in regulating meat-quality-related traits, including lipid deposition, muscle biology, metabolism (lipid metabolism, glycometabolism, inflammation, immunologic function, etc). We look forward to receiving your contributions.

---

### Guest Editor

Dr. Xinxia Wang

Key Laboratory of Animal Feed and Nutrition of Zhejiang Province, College of Animal Sciences, Zhejiang University, Hangzhou 310058, China

---

### Deadline for manuscript submissions

closed (31 December 2023)



## Animals

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.7  
CiteScore 5.2  
Indexed in PubMed



[mdpi.com/si/165301](https://mdpi.com/si/165301)

*Animals*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[animals@mdpi.com](mailto:animals@mdpi.com)

[mdpi.com/journal/  
animals](https://mdpi.com/journal/animals)





# Animals

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.7  
CiteScore 5.2  
Indexed in PubMed



[mdpi.com/journal/  
animals](https://mdpi.com/journal/animals)



## About the Journal

### 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.

---

### Editor-in-Chief

Prof. Dr. Clive J. C. Phillips  
Curtin University Sustainable Policy (CUSP) Institute, Curtin University,  
Kent St., Bentley, WA 6102, Australia

---

### 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), PubMed, PMC, Embase, PubAg, AGRIS, Animal Science Database, CAB Abstracts, and other databases.

#### Journal Rank:

JCR - Q1 (Veterinary Sciences) / CiteScore - Q1 (General Veterinary)