

Special Issue

Innovative Approaches and Current Challenges in Poultry Energy Utilization

Message from the Guest Editors

Feed constitutes about 70% input to the commercial poultry production, with energy contributing to 2/3 of the feed cost. Dietary energy is the first item to consider while formulating poultry feeds, as it is required for maintenance, physiological functions, metabolism and growth. Energy systems used in poultry nutrition are still a matter of discussion amongst poultry nutritionists. The apparent metabolizable energy has been the most commonly used tool in poultry nutrition to describe the energy requirements and dietary energy content of feed ingredients for poultry. However, this system is far from being perfect. In recent years, novel approaches have attracted poultry scientists' attention towards refining energy evaluation methods for poultry. This Special Issue aims to raise our current awareness of the challenges associated with poultry dietary energy utilization, in addition to fostering comprehensive insights about factors influencing energy utilisation, innovative solutions, and practical strategies to improve energy utilisation efficiency for an efficient poultry production.

Guest Editors

Dr. Mahmoud Mohamed Khalil

Animal Production Department, Faculty of Agriculture, Benha University, Benha, Egypt

Dr. Laura S. David

Monogastric Research Centre, School of Agriculture and Environment, Massey University, Palmerston North 4442, New Zealand

Deadline for manuscript submissions

closed (30 April 2025)



Animals

an Open Access Journal
by MDPI

Impact Factor 2.7
CiteScore 5.2
Indexed in PubMed



mdpi.com/si/182863

Animals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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

1. Curtin University Sustainable Policy (CUSP) Institute, Curtin University, Kent St., Bentley, Western Australia 6102, Australia
 2. Former Foundation Professor of Animal Welfare, University of Queensland and Foundation Director, Centre for Animal Welfare and Ethics, University of Queensland, Brisbane, 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)