Special Issue

Sustainable Production Strategies for Meat and Meat Products: Technological Innovation, Animal Welfare, and Environmental Impact Reduction

Message from the Guest Editors

Meat and meat products play a crucial role in global food security by providing high-biological-value protein. However, increasing demand has raised environmental, social, and economic concerns, prompting the development of more sustainable and cost-efficient production systems. Recent advancements include the use of feed additives to reduce enteric fermentation, modulation of fatty acid profiles, environmental monitoring of production chains, development of cultivated and plant-based meats, and the incorporation of natural antioxidants and dietary fibers from agroindustrial waste. These approaches aim to minimize environmental impact, enhance nutritional value, and extend shelf life without compromising quality. This Special Issue invites original research, reviews, case studies, and short communications focused on sustainable meat production. Topics of interest include animal performance and meat quality, natural antioxidants, evaluation methodologies, nutritional strategies, processing technologies, and plant-based alternatives. Contributions from all related disciplines are welcome.

Dr. F. S. Campos

Guest Editors

Dr. Glayciane Costa Gois

Department of Animal Science, Federal University of Maranhão, Chapadinha 65500-000, Brazil

Dr. Fleming Sena Campos

Postgraduate Program in Animal Science, Universidade Estadual do Sudoeste da Bahia, Itapetinga 45700-000, BA, Brazil

Deadline for manuscript submissions

20 May 2026



Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.5



mdpi.com/si/237075

Applied Sciences Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 applsci@mdpi.com

mdpi.com/journal/applsci





Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.5



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo

Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

