



animals



an Open Access Journal by MDPI

Nutritional Factors Affecting Poultry Skeletal Growth and Health

Guest Editor:

**Dr. Reza Akbari Moghaddam
Kakhki**

Poultry Research Centre, Trouw
Nutrition Research &
Development, Toledo, Spain

Deadline for manuscript
submissions:

30 June 2024

Message from the Guest Editor

Dear Colleagues,

High demands on the skeletal system due to the production characteristics of modern poultry lines (e.g., body weight of broilers and egg production in laying hens), along with inadequacies in nutrition or husbandry, often cause skeletal disorders. In laying hens, skeletal disorders can be observed such as leg weakness, vertebral fractures, posterior paralysis, sudden death, etc. The recent changes in housing systems have improved productivity and poultry welfare. However, these changes have also introduced new challenges to the skeletal health of hens, such as keel bone fractures. In broilers, lameness from biomechanical dysfunction results in culled birds, increased mortality (caused by starvation and dehydration), poor growth, and carcass condemnation and downgrading.

Research areas may include (but are not limited to) feeding strategies to optimize skeletal development in broilers and pullets, skeletal integrity in long-life laying hens, and feeding programs in breeders affecting the skeletal development of their offspring.

Dr. Reza Akbari Moghaddam Kakhki
Guest Editor



mdpi.com/si/136994

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Clive J. C. Phillips

1. Institute of Veterinary Medicine
and Animal Sciences, Estonian
University of Life Sciences,
Kreutzwaldi 1, 51014 Tartu,
Estonia
2. Curtin University Sustainability
Policy (CUSP) Institute, Kent St.,
Bentley 6102, Australia

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: 3.0 (2022, ranks 12 /62 (Q1) in ‘Agriculture, Dairy & Animal Science’; 13/143 (Q1) in ‘Veterinary Sciences’), 5-Year Impact Factor: 3.2.

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*)

Contact Us

Animals Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/animals
animals@mdpi.com
[X@Animals_MDPI](https://twitter.com/Animals_MDPI)