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Heat Stress and Amino Acids in Poultry Production

Guest Editor:

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Message from the Guest Editor

Global warming causes "heat stress" to domestic animals such as dairy and beef cattle, pigs, and poultry, resulting in economic losses. In poultry production, several feeding strategies using electrolytes, vitamins, minerals, and phytochemicals have been conducted to alleviate the negative effects of heat stress. Amino acid (AA) fortification in the diet is the most useful mean with which to improve the performance under heat-stressed conditions. The effects of AA supplementation into normal or low crude protein diets, and the supplemented AA types such as the limiting AA, essential AA or its combination have been extensively evaluated to seek the effective feed formulation for suppressing the heat stress effects. In this Special Issue, the updated topic regarding "Heat stress and amino acid in poultry production" is raised, which includes novel AA supplementation effects, AA dynamics and absorption machinery, as well as AA metabolomics, regardless of AA types.



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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 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

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