

Special Issue

Genetic Selection and Associated Defects in Poultry Production

Message from the Guest Editors

Genetic selection to improve the productivity of farm animals is practical and applicable in the animal industry. In the case of broiler chickens, intensive genetic selection for early rapid growth over the past decades has greatly increased growth rate and feed efficiency. The overall feed conversion rate is less than 1.8, and 2 kg market weight is reached within 6 weeks. This conversion rate of current broiler strains is at least 4-fold higher than that of Leghorn layers and their unselected ancestors in the 1950s. However, this genetically driven rapid growth rate is collaterally associated with many undesirable consequences, such as a higher incidence of ascites, tibial dyschondroplasia (TD), skeletal deformities, fatty liver and kidney syndrome, obesity, necrotic enteritis, and poor reproductive performance. In the recent decade, selection for better productivity in domestic animals has been raised to a higher plane with the issues of animal welfare. Topics of this Special Issue will cover a wide range of interests, for example, the genetic effects of poultry species on animal reproduction, nutrition, immunology, physiology, pathology, and welfare.

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Deadline for manuscript submissions

closed (31 December 2021)



Animals

an Open Access Journal
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Impact Factor 2.7
CiteScore 5.2
Indexed in PubMed



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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.

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