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Lipoprotein Metabolism and Adipose Biology in Poultry: Impact on Health and Production

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Message from the Guest Editors

Dear Colleagues,

Aspects of avian lipoprotein biology are distinct from those of mammals in many ways, as a result of oviparous reproduction. Lipoproteins are biological nanoparticles that are widely recognized as transporters of lipophilic nutrients and energy-containing lipids. More recently appreciated properties of lipoproteins include the conveyance of bioactive and signaling lipids. The apoproteins in lipoproteins serve structural and ligand functions; some protein components possess enzymatic activities, bind inflammatory compounds, and act in aspects of innate immune function. Further distinctions arise from genetic selection for specific production targets in commercial poultry. Genetic differences among strains of chickens result in differences in growth, adiposity, and reproductive capacity. This Special Issue aims to highlight newer knowledge in avian lipoprotein biology and adipose development that has an impact on poultry health and production. Articles that use newer molecular techniques or that explain the mechanisms for phenotypic differences among strains of poultry in lipoprotein physical properties, metabolism, or adipose biology are particularly welcome.



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Special Issue



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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: 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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