Special Issue

Epigenomics, Epigenetics, and Gene Expression Regulation as Determinants of Fat Deposition and Adipogenesis in Mammals

Message from the Guest Editors

Epigenetics is a phenomenon that affects gene expression without altering the base pair sequence, and epigenomics is the study of epigenetic modifications to the entire genome. The epigenetics mechanism and transcriptional regulatory events determine gene expression and activity during development in response to environmental and dietary stimuli. In the literature, there is evidence that obese people have significantly different epigenetic patterns compared to non-obese people. Therefore, the long-term target in this area is the identification of epigenetic marks that could be applied to predict metabolic syndrome risk early in order to delay and reverse these epigenetic changes. In turn, in farm animals, controlling fat deposition based on epigenetic modification is still scarcely investigated and knowledge in this area needs to be thoroughly broadened.

Our SI aims to collect interesting papers focusing on epigenetics regulation during adipogenesis, obesity, and fat deposition, determining processes in different kinds of species.

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Message from the Editor-in-Chief

Genes is central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fast-moving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised. Why not consider *Genes* for your next genetics paper?

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