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The Enigmatic Role of DNA Methylation in Invertebrates

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Message from the Guest Editor

Invertebrates are the largest and most heterogeneous group of animals on the planet. Their actions are shaping the biosphere and impact human health and well-being. Arthropods and mollusks not only have an indirect impact on agronomy as, e.g., pollinators or pests, but also are increasingly used as a source of animal proteins. The evolutionary success of invertebrates is related to their high phenotypic plasticity. It is now recognized that epigenetics, i.e., mitotically and/or meiotically heritable changes in gene function that cannot be explained by changes in DNA sequence, is one of the major contributors to phenotypic plasticity.

The purpose of this Special Issue is to provide new insights into the specific role(s) of DNA methylation in invertebrates and provide a new refreshing perspective on its importance.



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Special Issue



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Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving 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.

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