



Transgenerational Epigenetic Inheritance

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Message from the Guest Editor

Multiple signaling networks exist to take in environmental information and adapt the genome in response to these environmental cues. In extreme environmental conditions, this epigenetic information can be transmitted to naive progeny to induce phenotypic changes. Transgenerational epigenetic inheritance has been known about for decades, but the molecular mediators of this non-genetic transmission of information are just now beginning to be deciphered. In this Special Issue, experts in the field of transgenerational epigenetic inheritance will describe some of the transgenerational epigenetic inheritance phenomena and delineate some of the molecular mediators of this non-genetic inheritance, including chromatin modifications, non-coding RNA, prions, and microbiota. Because none of these epigenetic cues function in isolation, papers will describe how these non-genetic cues can communicate with each other to help to reinforce epigenetic signals and detail some of the common and unique characteristics of transgenerational epigenetic inheritance paradigms.





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Message from the Editor-in-Chief

In the past years the growth of the epigenetic field has been outstanding, from here the need of a journal where to centralize all new information on the subject. The term epigenetics is now broadly used to indicate changes in gene functions that do not depend on changes in the sequence of DNA. *Epigenomes* covers all areas of DNA modification from single cell level to multicellular organism as well as the epigenetics on human pathologies and behavior.

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