Special Issue

Transgenerational Epigenetic Inheritance

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.

Guest Editor

Dr. Eric Greer

Department of Pediatrics, Washington University in St. Louis, St. Louis, MO 63130, USA

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Epigenomes
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
epigenomes@mdpi.com

mdpi.com/journal/epigenomes

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About the Journal

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.
Epigenomes (ISSN 2075-4655) is a fully peer-reviewed publication outlet with a rapid and economical route to open access publication. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

Editor-in-Chief

Prof. Dr. Ernesto Guccione
Icahn School of Medicine at Mount Sinai, Hess Center for Science and Medicine, New York, NY 10029, USA

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