



DNA



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Epigenetics and Environmental Exposures

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Message from the Guest Editors

Dear Colleagues,

It is well known that our lifestyles, as well as our environment, have a pronounced effect on our organisms. Examples abound of how chemical compounds and xenobiotics present in food, water or the atmosphere are capable of altering epigenetic status and gene expression and thus impact human health. More importantly, some studies have reported on the long-term effects of these exposures or effects linked to low-dose exposure.

Epigenetic modifications play a central role in regulating various essential cellular processes. These modifications are extremely sensitive to changes in cell metabolism or cell signalling induced by environmental signals. Characterizing the relationship between environmental exposures, these modifications and their functions is essential to better understand how environmental signals can be linked to disease or long-term effects.

In this Special Issue, we welcome review articles and original research studies exploring these aspects in vitro, in cellular and animal models as well as in human.

Dr. Benoît Miotto
Dr. Tina Bianco-Miotto
Guest Editors



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Special Issue



DNA

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Message from the Editor-in-Chief

Since the first human and mouse genome sequence assemblies over 20 years ago, hundreds of species are now complete, impacting on diagnostics, medicine, agriculture and the environment. Taking a “sequence to consequence” and “structure to nature” philosophy with clearly written, accessible manuscripts, *DNA* will publish novel research findings, reviews and communications in DNA-related technologies, genome structures, DNA-targeted therapies, bioinformatics and cytogenomics. As pioneers in DNA technology, we owe it to the next generation to take the lead in carving a new path that the enigmatic double helix at the core of our essence shows us. We look forward to hearing from you and distributing your insights to the community.

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