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Epigenetic Bioengineering

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Deadline for manuscript submissions:
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Message from the Guest Editors

Epigenetic gene regulation is essential for proper mammalian development and maintains the identity of cells that make up the body. Interestingly, epigenetic regulation exhibits a dual functionality. On one hand, the epigenome is very robust, instructing gene expression patterns that persist over many cell generations. Additionally the epigenome is highly dynamic, able to respond to environmental and developmental signals. Epigenetic fluctuations can allow critical diversification of cell function. Yet, alterations to the epigenome can provide unwanted subclonality such as tumor heterogeneity. Numerous crucial questions regarding the functional output of epigenetic regulation specially in clinical context remain unanswered.

This special issue will be dedicated to the impact of using innovative technologies to infer design principles of epigenetic regulation and the functional output. All explorative studies which enhance the field of epigenetics and bioengineering are welcomed to contribute to this issue.



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Special Issue



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Message from the Editor-in-Chief

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