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ATP-dependent Chromatin Remodeler

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Deadline for manuscript
submissions:

closed (31 May 2020)

Message from the Guest Editor

Dear Colleagues,

One of the major types of epigenetic factors is the large family of ATP-dependent chromatin remodeling complexes that reorganize chromatin by moving nucleosomes on DNA, disassembling and reassembling nucleosomes, or dynamically exchanging into chromatin different histone variants such as histone H2A.Z. Recent advances in high resolution cryo-electron microscopy have provided critical insights into the mechanisms of chromatin remodeling that also complement biochemical approaches used for this purpose. Advances in genomics/next generation DNA sequencing and molecular genetics has revealed that these chromatin remodelers are important in development and differentiation and when mutated can become the molecular basis for several diseases including cancer. In this issue, we will examine the convergence of these two distinct areas and how they inform us as to the importance and roles of these factors for regulating the epigenome and its impact on human diseases.

Prof. Blaine Bartholomew

Guest Editor



mdpi.com/si/35423

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