



Epigenetics and Development

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Deadline for manuscript
submissions:

closed (20 March 2023)

Message from the Guest Editor

Once dubbed a series of chemical tags that modify DNA and its associated structures, today's view of the epigenome during development resembles a dynamic rollercoaster ride that shapes all stages of the development of an organism through mechanisms as diverse as DNA methylation, histone modifications, remodeling via ATP-dependent chromatin complexes, histone variant exchange, Polycomb complex mediated gene silencing, chromatin dynamics, heterochromatin effects on mitotic spindle anchorage, and interactions with environmental factors from nutrition to drugs and stress. While it is clear that epigenetics plays major roles in development, our understanding of the mechanisms involved and their effects on cellular differentiation and organ development is still in its infancy. Recent studies have been able to whet our appetite to understand the role of the epigenome in development, but there is much to learn, and our Special Issue is destined to explore and bridge some of our knowledge gaps.





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Message from the Editor-in-Chief

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