Special Issue

Epigenetic Control and Gene Regulatory Mechanisms in Development and Disease

Message from the Guest Editor

Epigenetics refer to a wide range of regulatory mechanisms that control gene expression to determine cellular morphology and function. Such mechanisms include multi-step regulation at the level of gene transcription, post-transcription, protein translation, and post-translational control. Genetic mutations or epigenetic deregulation, in part influenced by environmental factors, may lead to impaired development and in many cases cause human diseases. This Special Issue aims to provide an up to date platform for original research and review papers that cover subjects related to different forms of epigenetic mechanisms, including DNA, RNA, and histone modifications, regulatory RNA molecules, alternative splicing and related factors, three-dimensional chromatin structure, enhancer–promoter interactions, nucleosome remodeling, as well as the role of epigenetic factors (readers, writers, and erasers). Epigenetic mechanisms are important in development and disease and relevant subjects are welcome for submission, along with studies related to associated model systems.

Guest Editor

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Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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