Special Issue

Evolution of Epigenetic Mechanisms and Signatures

Message from the Guest Editors

Many mechanisms have been elucidated governing genome activity regulation at the levels of chromatin organization, the transcription of DNA, RNA stability and translation. These include but are not limited to DNA methylation and hydroxmethylation; histone modifications; and various types of non-coding RNAs like circular RNAs, small interfering RNAs, and micro RNA machinery. Numerous applications have been found in fundamental studies, bioengineering, and molecular diagnostics. Many epigenetic mechanisms have been investigated in detail in such biologically distinct objects as mammals (human, mouse), teleosts (zebrafish), insects (drosophila), nematodes (C.elegans), and plants (Arabidopsis). This has been immensely enhanced by the recent progress in massive parallel screening technologies such as next-generation sequencing and modern proteomic approaches. In this Special Issue, the authors are invited to submit all formats of manuscripts dealing with the evolutionary aspects of epigenetic mechanisms. Both bioinformatic and experimental research papers and reviews will be accepted.

Guest Editors

Prof. Dr. Anton Buzdin

1. Subgroup of Bioinformatics and Biostatistics, European Organization for Research and Treatment of Cancer, Brussels, Belgium
2. Group for Genomic Analysis of Cell Signaling Systems, Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry, 117997 Moscow, Russia
3. Institute of Personalized Medicine, I.M. Sechenov First Moscow State Medical University, 119991 Moscow, Russia
4. Omicsway Corp., Walnut, CA 91789, USA

Dr. Alla Kalmykova

Head of Laboratory of Developmental Epigenetics, Koltzov Institute of Developmental Biology of RAS, 119334 Moscow, Russia

Deadline for manuscript submissions

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Cells
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
cells@mdpi.com

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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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Dr. Alexander E. Kalyuzhny
Neuroscience, UMN Twin Cities, 6-145 Jackson Hall, 321 Church St SE, Minneapolis, MN 55455, USA

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