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Protein-DNA Interactions: From Biophysics to Genomics

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Protein-DNA interactions are vital for gene regulation, replication, and repair. These essential cellular processes result from a complex action of systems involving various proteins such as transcription factors and DNA repair/modifying enzymes. Many mechanistic aspects of these proteins should be delineated to understand how genes are regulated and maintained. Such knowledge is important, particularly because many human diseases are related to abnormalities in protein-DNA interactions. Adverse effects may be caused by mutations in the genes and cis-regulatory elements, by alteration in posttranslational modifications of transcription factors and DNA repair/modifying enzymes, and by epigenetic modifications of DNA and histones. In many cases, these are related to each other in complex networks of molecular interplays. This special issue is intended for providing a forum to discuss protein-DNA interactions from broader perspectives, ranging from an atomic/molecular level to a cellular/organismic level. Review articles by experts in the field are particularly welcomed.

Prof. Junji Iwahara Guest Editor













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Message from the Editor-in-Chief

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