

Special Issue

Chromatin Remodeling and Its Regulation by Small Molecules

Message from the Guest Editor

Chromatin remodeling is a key fundamental mechanism in gene control and chromatin maintenance, such as the activation or repression of transcription and DNA repair. Its deregulation is increasingly appreciated as being important for the development of cancer. Post-translational modifications play a decisive role in remodeler regulation, by either furnishing regulatory signals for mechanical processes such as the displacement or removal of nucleosomes or by providing epigenetic markers. Since chromatin remodelers in complex with nucleosomes provide numerous putative interaction surfaces, there is an emerging literature on the role of small molecules in intervening and co-regulating chromatin remodeling. This Special Issue aims to bring together research results in this important field. We are particularly interested in receiving papers that incorporate different approaches; exemplary cases, by no means exclusive, are listed in the keywords.

- Bromodomain inhibitors
- Antisense RNA
- Aptamers
- Histone deacetylase inhibitors
- DNA-methyltransferase inhibitors
- Peptide inhibitors
- Small-molecule inhibitors

Guest Editor

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