

Special Issue

Therapeutic Drugs Targeting DNA

Message from the Guest Editors

DNA-targeting drugs that directly interact with DNA, such as alkylating, crosslinking, and DNA intercalating agents have been used in cancer chemotherapies for decades with some success. Recently, drugs that selectively target DNA repair factors have been developed, with some of these drugs currently under clinical trial. DNA repair inhibitors with a selective target, such as inhibitors of poly(ADP-ribose) polymerase, indirectly introduce lethal DNA damage to cancer cells. Inhibitors of epigenetic and chromatin regulation also indirectly target DNA, causing cancer cell death. DNA targeting drugs that induce lethal DNA damage directly or indirectly will become a critical component of effective cancer chemotherapies in the future. Thus, this Special Issue will focus on the use of DNA targeting drugs, namely those that target DNA repair and epigenetic and chromatin regulation, for various diseases, including cancers. Authors are invited to submit original research articles and reviews on various types of molecular and biological aspects of DNA targeting drugs for inclusion in this Special Issue.

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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