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Heterocyclic Chemistry for Cancer and CNS Diseases

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Message from the Guest Editor

Heterocycles are prevalent in nature and they have the ability to engage in a wide variety of intermolecular interactions and in biochemical processes; consequently, they play an important role in anti-cancer drug design (65% of the anti-cancer drugs that have received approval from the Food and Drug Administration (FDA) between 2010 and 2015 contain nitrogen-based heterocycles). New heterocyclic compounds have also been developed in the last ten years for the central nervous system (CNS), particularly for the treatment of Alzheimer's disease (AD). Molecular design for the development of cholinesterase (ChEIs) inhibitors, monoaminoxidases (MAOs) inhibitors, NMDA receptor antagonism, etc., involved the exploration of many natural products (their modified derivatives) and also synthetic heterocyclic compounds.



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