



Drug Design Targeting Phosphodiesterase

Guest Editor:

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Message from the Guest Editor

Phosphodiesterases (PDEs) are a superfamily of enzymes that specifically hydrolyze the second messenger cyclic adenosine monophosphate (cAMP) and cyclic guanosine monophosphate (cGMP), which can in turn be divided into PDE1-PDE11 subfamilies. At present, more than ten PDE inhibitors are available on the market, including heavy bomb PDE5 inhibitors sildenafil and tadalafil, as well as the PDE4 inhibitor Apremilast. On the other hand, PDE has been demonstrated to be the potential target for various diseases such as heart failure and neurodegenerative diseases. More and more inhibitors are being developed to target different PDE subtypes, which will greatly promote the emergence of new targets for second messenger-related diseases. This SI seeks to solicit research on the development of PDE inhibitors, as well as research related to the application of targeted PDE and chemical probes. Our aim is to provide a platform for discussing the latest research on PDE inhibitors and promoting the application of PDE inhibitors.





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