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Small molecule inhibitors of Nicotinamide N-Methyltransferase (NNMT)

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Propositions

for the thesis

Small Molecule Inhibitors of Nicotinamide *N*-Methyltransferase (NNMT)

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1. In 1951, NNMT was first purified from rat liver by Cantoni, who subsequently discovered SAM in 1952.
Chapter 1 of this thesis
2. It is possible to regulate an epigenetic process for the treatment of disease and that a therapeutic window can be achieved clinically for this new class of drugs.
3. Intramolecular hydrogen bond has a very pronounced effect on molecular structure and properties.
Chapter 2 of this thesis
4. Scaffold hopping will continue to be of high interest in medicinal chemistry.
Chapter 3 of this thesis
5. The trimethyl lock provides a general method to mask amines and isopropyl ester provides general method to mask carboxylic acid.
Chapter 4 of this thesis
6. During the years 2008–2017, 12.4% of all new molecular entities approved by the FDA were prodrugs.
7. Sulfonyl fluoride electrophiles have become important chemical biology and molecular pharmacology tools.
Chapter 5 of this thesis
8. Zanubrutinib, the first approved drug of China in the U.S., is a covalent inhibitor of Bruton's tyrosine kinase (BTK).
9. The last leg of a journey marks the halfway point. (原行百里者半九十)
10. A journey of thousands of miles may not be achieved through accumulation of each single step, just as the enormous ocean may not be formed gathering every brook or stream. (不积跬步，无以至千里；不积小流，无以成江海)