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Inhibitor discovery of phospholipases and N-acyltransferases

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Stellingen

Behorende bij het proefschrift

Inhibitor Discovery of Phospholipases and *N*-acyltransferases

Juan Zhou, Leiden, September 2020

1. The limited structural variety of *N*-Acylethanolamines does not restrict their tremendous activities in biological systems.
This thesis, **Chapter 1**.
2. The development of selective protein inhibitors can lag far behind that of the protein research.
This thesis, **Chapter 2**.
3. Structure-based drug design is not the only means to arrive at good inhibitors for a protein.
This thesis, **Chapter 3**.
4. Though activity-based protein profiling itself is a very powerful technology, the profiling of the biological consequence after inhibitors treatment usually requires the application of multiple technologies at the same time.
This thesis, **Chapter 4**.
5. As the first potent inhibitor for PLAATs, LEI110 paved the way for further research of PLAATs inhibitors.
This thesis, **Chapter 4**.
6. When the structures of the proteins from the same family are very similar, looking for selective inhibitors for one protein is a combination of experience and fortune.
This thesis, **Chapter 5**.
7. To decipher the biological function of a new protein takes much longer than the discovery of the protein itself.
This thesis, **Chapter 5** & *Nat. Chem. Biol.* **2016**, 12 (9), 669-671.
8. The initial discovery of PLAAT as HRAS-like tumor suppressor is not relevant for its new therapeutic role.
This thesis & *J. Lipid Res.* **2011**, 52(11), 1927-1935
9. Biologists and chemists are like the two wheels of a bike: only when both of them are working together, they can move forwards.
10. Only when a journey comes to an end, will you know how long it takes!