

# Implementation of structural bioinformatics in thromboinflammation studies

Citation for published version (APA):

Liu, X. (2021). *Implementation of structural bioinformatics in thromboinflammation studies*. [Doctoral Thesis, Maastricht University]. Ridderprint. <https://doi.org/10.26481/dis.20211209xl>

## Document status and date:

Published: 01/01/2021

## DOI:

[10.26481/dis.20211209xl](https://doi.org/10.26481/dis.20211209xl)

## Document Version:

Publisher's PDF, also known as Version of record

## Please check the document version of this publication:

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Propositions

**Implementation of structural bioinformatics  
in thromboinflammation studies**

1. Protein–protein interactions (PPIs) are claiming their position in drug discovery and development research. (this thesis)
2. Autocitrullination does not represent a self-control mechanism that regulates PAD4 enzymatic activity. (this thesis)
3. *In silico* methods uncover a structural region in *Pseudonaja textilis* FVa that is likely to be responsible for its functional resistance to APC cleavage. (this thesis)
4. Computer-based methods can be applied for rationally designing peptidic agonists to activate CXCR4 and induce its mediated signaling. (this thesis)
5. Molecular Dynamics simulations capture the behavior of proteins and other biomolecules in full atomic detail and at very fine temporal resolution. (SA. Hollingsworth. *Neuron*, 2018)
6. Peptide therapeutics occupy a well-defined space in the pharmaceutical landscape, in which they can outperform small molecules and larger biologics. (M Muttenthaler., et al. *Nat. Rev. Drug Discov*, 2021)
7. Artificial Intelligence (AI) has transformed many areas such as speech and image recognition, but not yet drug discovery. (A Bender., et al. *Drug Discov Today*, 2021)
8. Structural bioinformatics increasingly help researchers to solve complex problems while saving considerable time and cost in biomedical science.
9. All models are wrong, but some are useful. (George E. P. Box)
10. Learning without thought is labor lost; thought without learning is perilous. (Confucius, Analects)  

子曰：“学而不思则罔，思而不学则殆。”——《论语》
11. If you understand others you are smart, if you understand yourself you are illuminated, if you overcome others you are powerful, if you overcome yourself you have strength. (Lao Tzu, Tao Te Ching)

老子曰：“知人者智，自知者明。胜人者有力，自胜者强。”——《道德经》