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Targeting Aspartate Transcarbamoylase: A Versatile Approach to Multispecies Drug and Herbicide Discovery

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Propositions

Belonging to the thesis

Targeting Aspartate Transcarbamoylase: A Versatile Approach to Multispecies Drug and Herbicide Discovery

Xiaochen Du

1. Aspartate transcarbamoylase (ATCase) as the second enzymatic catalytic step of pyrimidine biosynthesis pathway is a potential powerful target that can be targeted in multiple diseases.
2. Fragment screening coupled with multiple component reaction chemistry is a powerful method of drug design and development (Chapter 4).
3. Constant development of new drug candidate to address arising drug resistance in infectious diseases is still needed.
4. Structures alone are not enough, enzymatic (and other) assays are an essential part of the discovery of new potential inhibitors (this thesis).
5. Moving experiments *in vivo* from *in vitro* is risky, but essential and rewarding.
6. Exploring the essence of things is the best way to understand and solve problems (my view).
7. Enjoy the life (I hope everyone's view!).