

University of Groningen

## Targeted protein degradation and multicomponent reactions in drug discovery

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DOI:  
[10.33612/diss.254081504](https://doi.org/10.33612/diss.254081504)

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*Document Version*  
Publisher's PDF, also known as Version of record

*Publication date:*  
2022

[Link to publication in University of Groningen/UMCG research database](#)

*Citation for published version (APA):*  
Wang, Z. (2022). *Targeted protein degradation and multicomponent reactions in drug discovery*. University of Groningen. <https://doi.org/10.33612/diss.254081504>

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# PROPOSITIONS

Belonging to the thesis

## **Targeted protein degradation and multicomponent reactions in drug discovery**

Zefeng Wang

1. Targeted protein degradation (TPD) offers a novel therapeutic alternative by inducing the deletion or reduction of a protein via hijacking the cellular protein degradation machineries.
2. Multicomponent reaction (MCR) is a valuable tool that provides a great opportunity to generate large and diverse compound libraries in a low-cost, rapid, and environment-friendly manner.
3. The combination of high-throughput synthesis and high-throughput screening could be an efficient approach to accelerate drug discovery and development.
4. Molecular glues (MGs), as chemical inducers of proximity, could induce or stabilize the ternary complex, leading to diverse biological and pharmacological functions.
5. PROteolysis TARgeting Chimeras (PROTACs) has emerged as a novel therapeutic modality in drug discovery and is a game-changing technology.
6. Biologically privileged polycyclic quinazolinones can be achieved by Ugi four-component reaction (U-4CR) and further cyclization reactions, with excellent substrates/functional group tolerance.
7. You have to believe in yourself. That's the secret of success. [Charles Spencer Chaplin]
8. Never forget why you started, and your mission can be accomplished.  
(不忘初心，方得始终)