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## Strategies and mechanisms for enhancing receptor-specific TRAIL-induced apoptosis

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# Propositions

## Strategies and mechanisms for enhancing receptor-specific TRAIL-induced apoptosis

By Xinyu Zhou

1. Refining receptor specificity is a promising research strategy for improving the application of TRAIL. (Chapter 2)
2. The combination of artemisinin-type drugs with the DR5-specific TRAIL variant has a great potential for cancer treatment. (Chapters 3 and 4)
3. Artemisinin-type drugs stimulate cancer cells to not only apoptosis but also other types of regulated cell death. (Chapter 5)
4. Ionizing radiation alters the death receptor expression pattern of 3D tumor spheroids, making them less susceptible to the DR4-specific TRAIL variant. (Chapter 6)
5. While TRAIL and its receptors have been studied for decades, many unknown mechanisms remain to be explored. (This thesis)
6. After you have wasted time by procrastinating, don't regret it, but even work harder to achieve the goal. (My view)
7. The effort-gain relationship is not linear or S-shaped, but zigzag; failures and plateaus are also part of the process. (My view)
8. Although I have made many choices in my life, I consider coming to the Netherlands to be one of the best decisions I've made. (My view)