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Advances in the research and application of neurokinin-1 receptor antagonists

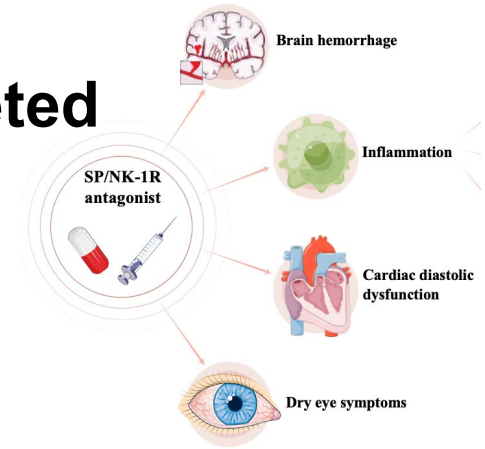
Key words: NK-1R antagonist; aprepitant; pathophysiological disorder; COVID-19; tumor target, bioavailability; nanoencapsulation radioligand receptor; synergistic therapy

Research Summary

This review mainly focused on the latest potentials and applications of NK-1R antagonists in the treatment of human pathophysiological diseases and cancers, the underlying mechanisms and the strategies to improve bioavailability and drug efficacy of NK-1R antagonists.



- **Treatment of pathophysiological disorders**
- **Therapeutic value in COVID-19**
- **Potentials in cancer treatment**
- **Nanonization and nanoencapsulation**
- **Application in radioligand receptor-targeted therapy**



Innovation points

- **Introduction** **of the SP/NK-1R system regulates multiple pathophysiological functions and triggers various pathophysiological disorders.**

- **Summary** **of the most updated SP/NK-1R research in cancer occurrence and progression**

- **Updates** **strategies to improve bioavailability of NK-1R antagonist Aprepitant**

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