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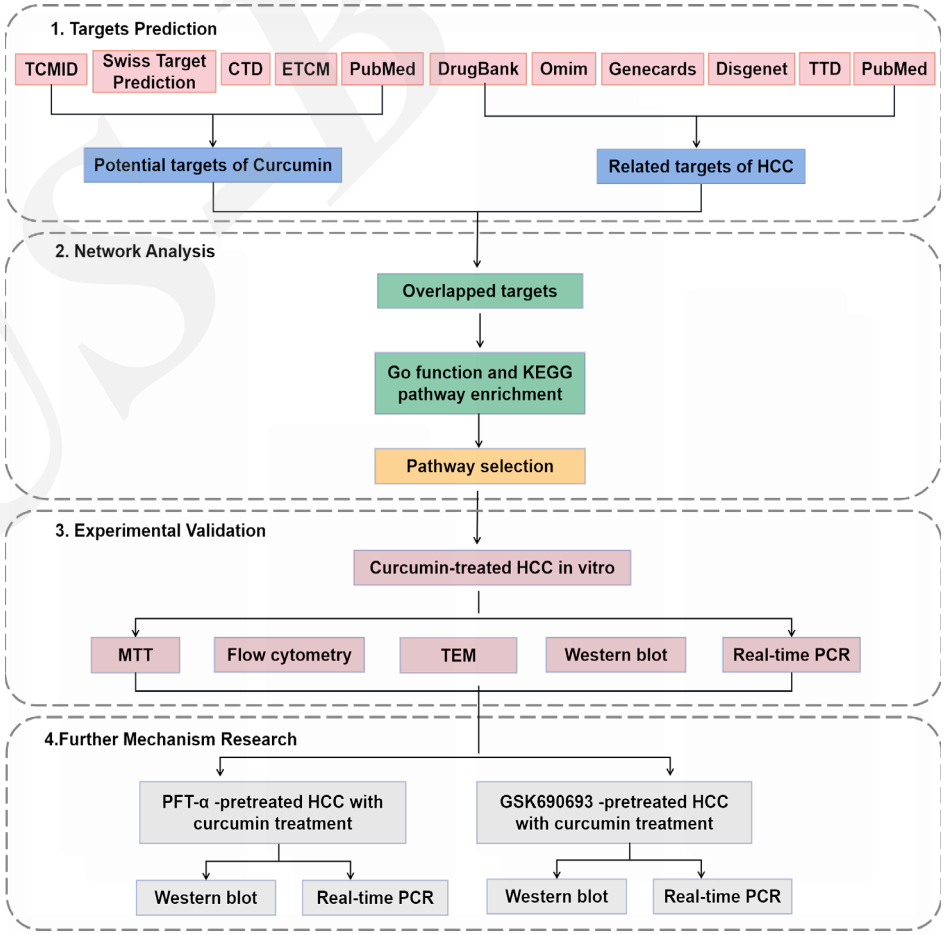
Investigation and experimental validation of curcumin-related mechanisms against hepatocellular carcinoma based on network pharmacology

Key words: Curcumin, Network Pharmacology, p53, AMPK, Apoptosis, Autophagy

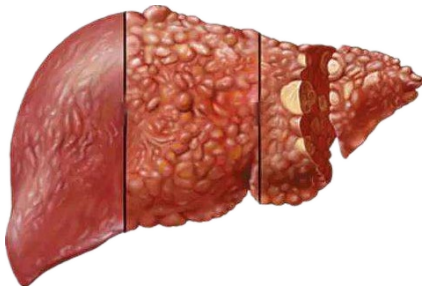
Research Summary

This paper mainly focused on the mechanisms of curcumin against hepatocellular carcinoma and summarized as following aspects:

- **Analysis of Network Pharmacology**
- **Experimental verification of the predicted pathways**
- **The interconversion of apoptosis and autophagy**



Innovation points



- **Found** pathways about curcumin-treated HCC *via* Network Pharmacology.

- **Dug** out AMPK/ULK1 autophagy pathway firstly in curcumin-treated HCC

- **Transferred** to each other through DRAM and p62 in the interconversion of apoptosis and autophagy