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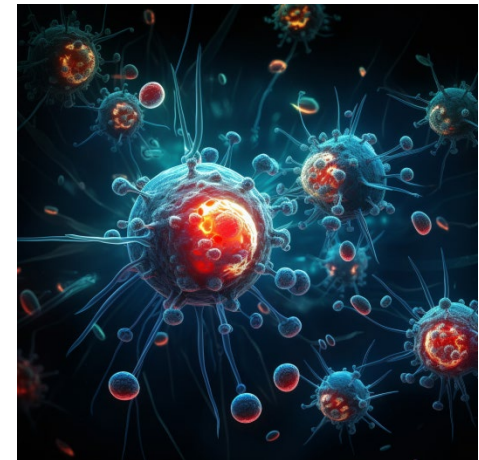
# **Roles of PANoptosis and related genes in acute liver failure: neoteric insight from bioinformatics analysis and animal experiment verification**

**Key words:** Acute liver failure, PANoptosis, GEO, Biomarkers, Therapeutic target

# Research Summary

This research mainly reveals the important role of macrophage PANoptosis in acute liver failure. Mainly through the following aspects:

- **Identification of hub genes through bioinformatic analysis**
- **Verified the cell localization and expression of hub genes through ALF animal model**
- **Verified the formation of PANoptosome through ALF cell model**



# *Innovation points*

- **Discovery** of 7 PANoptosis-related genes associated with ALF
- **Confirming** that there was crosstalk between cell death types causing ALF.
- **Emphasis** the importance of macrophage and PANoptosis for ALF
- **Providing** vital directions for further study of the diagnosis, progression, and targeted therapy of ALF

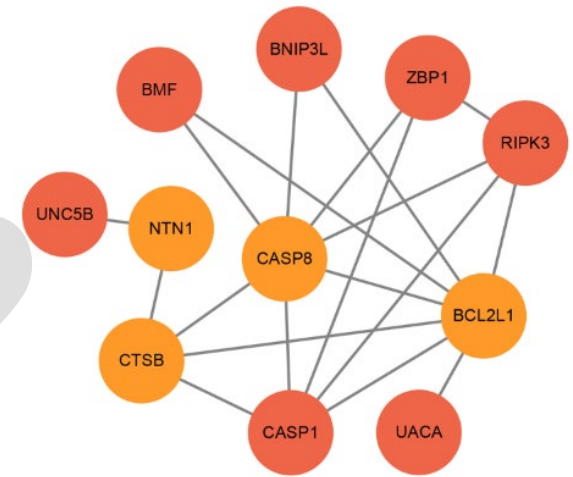


Figure 4B

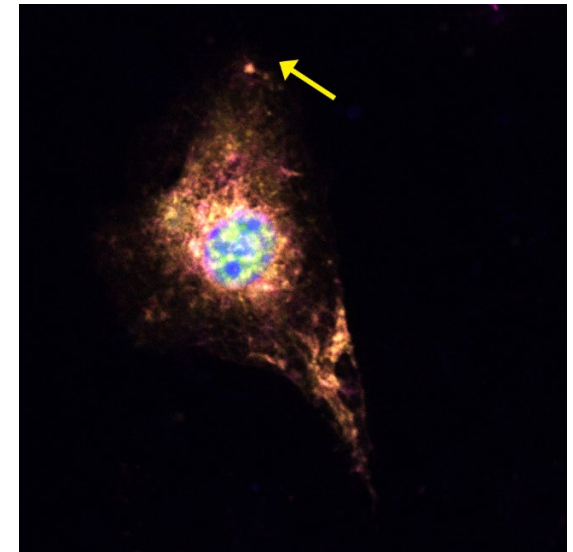


Figure 9F