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Biomolecular condensates in Hippo pathway regulation

Key words: Hippo signaling pathway, Phase separation, Transcription regulation

Research Summary

This review systematically summarizes the regulatory roles of biomolecular condensates in the Hippo signaling pathway, with particular emphasis on research demonstrating how FUS protein modulates the dynamic properties of TAZ condensates to sustain their high transcriptional activity.

Furthermore, we also discuss the intrinsic relationship between the material characteristics of biomolecular condensates and their functional outputs.

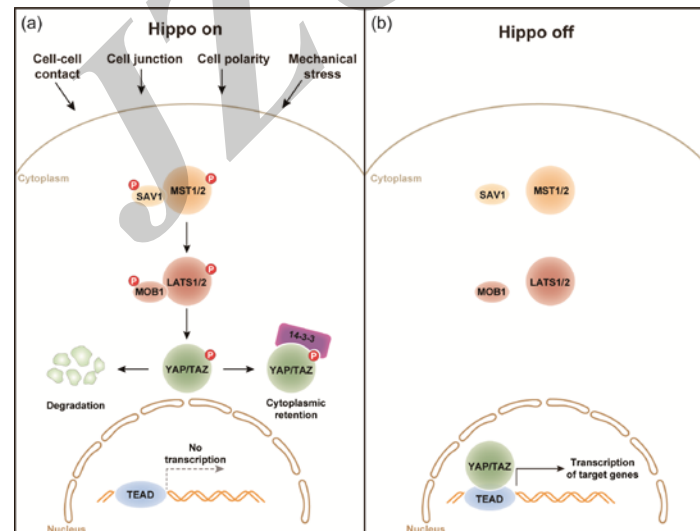


Figure 1

Innovation points

- **Summary** of regulation of the Hippo pathway by biomolecular condensates in the cytoplasm.

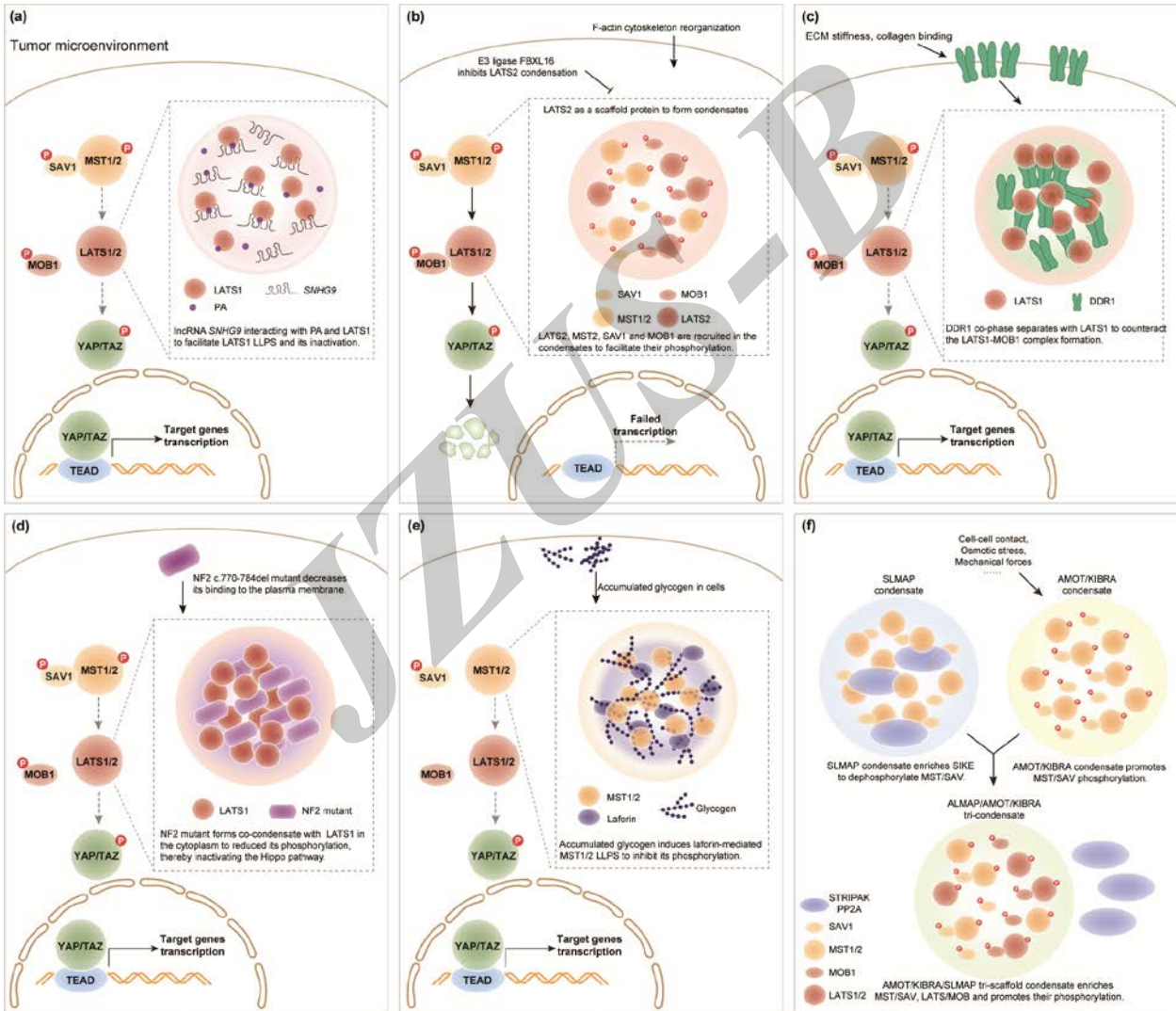


Figure 2

Innovation points

- **Summary** of regulation of the Hippo pathway by biomolecular condensates in the nucleus.

- **Emphasis** of the chaperone-like function of FUS protein to modulates the dynamic of TAZ condensates to maintain their high transcriptional activity.

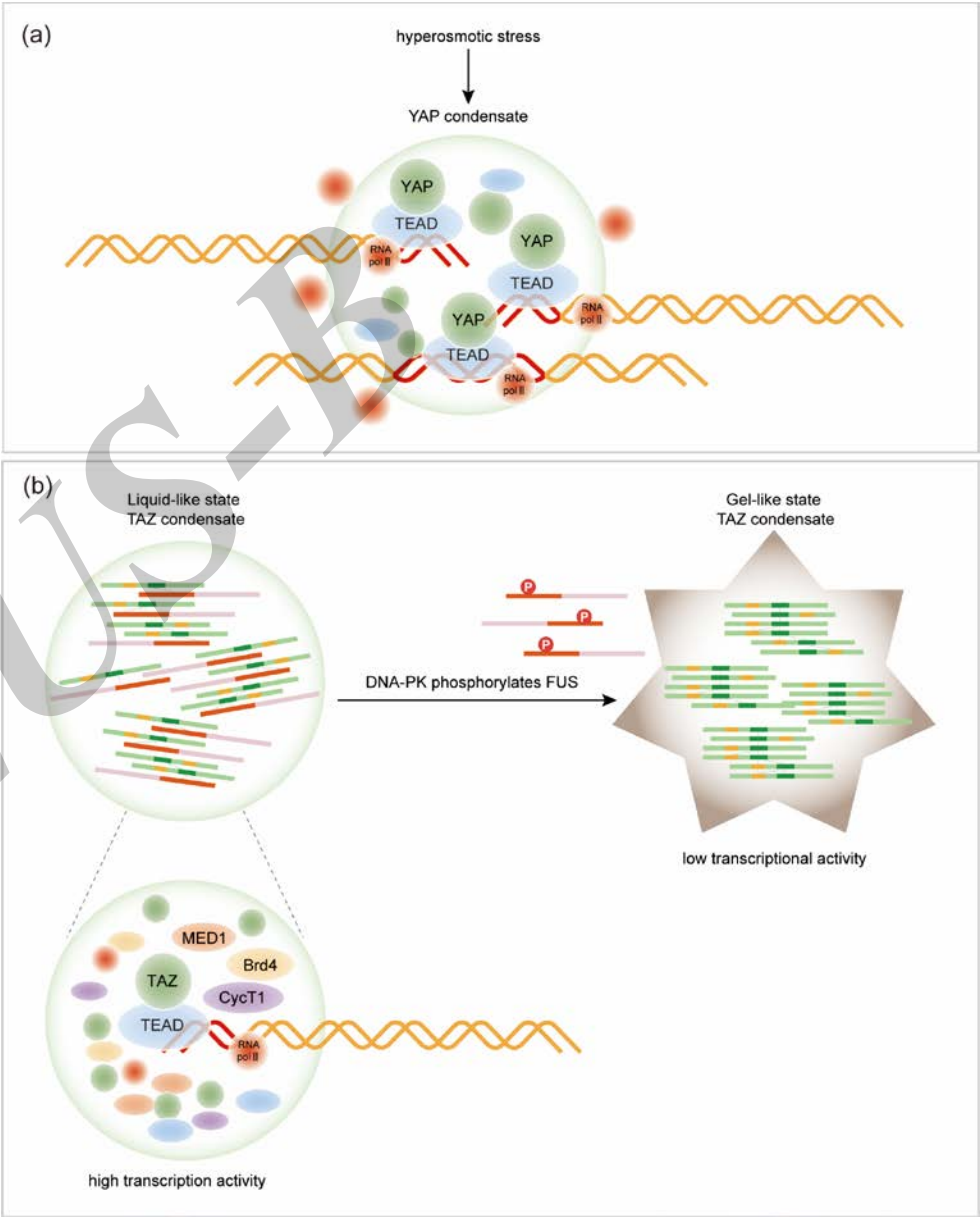


Figure 3