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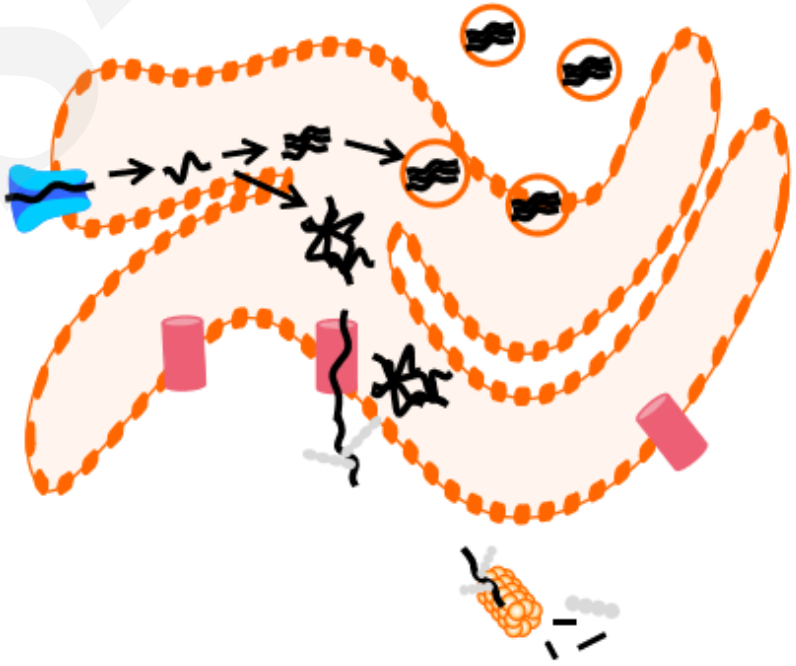
Advances in the study of protein folding and endoplasmic reticulum-associated degradation in mammal cells

Key words: Endoplasmic reticulum-associated degradation; Protein folding; Ubiquitination; Retrotranslocation

Research Summary

This review mainly focused on the mechanism of protein folding and quality control - endoplasmic reticulum related degradation (ERAD) in the following aspects:

- **Protein folding**
- **ERAD**
- **ERAD quality control**
- **ERAD in common Disease**



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Research Summary

- **Detail** description of the process of protein folding including CNX/CRT cycle and Bip ATPase cycle

- **Summary** of the most updated research progress about ERAD in mammal cells including substrate recognition, retrotranslocation and dislocation, ubiquitination and proteasome degradation

- **Highlights** of the impaired ERAD in common diseases such as immune inflammatory diseases,neurodegenerative diseases and cardiovascular diseases

Comprehensive table was generated to summarize the latest knowledge about ERAD

Table 1 | Main components in ERAD

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