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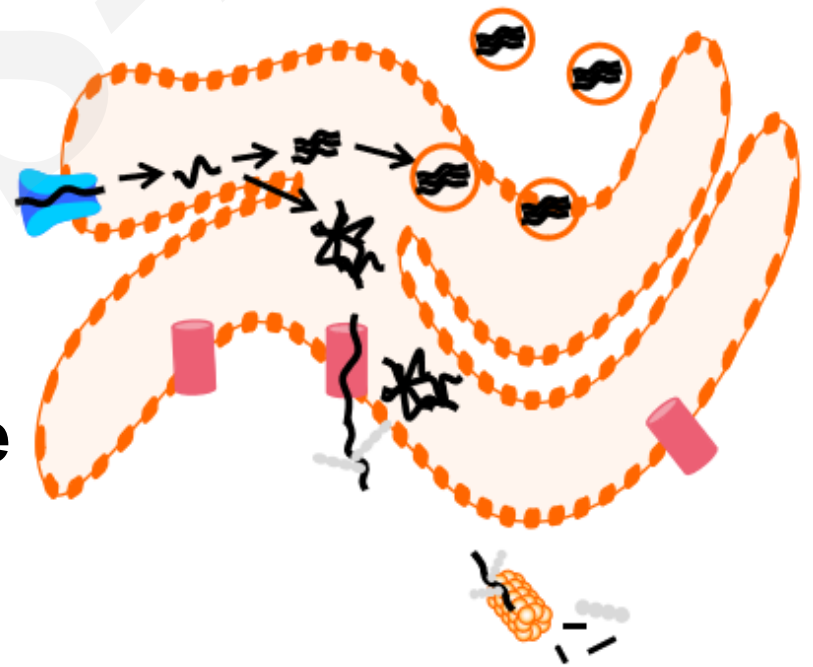
# **Advances in the study of protein folding and endoplasmic reticulum-associated degradation in mammal cells**

**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



# ***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**