

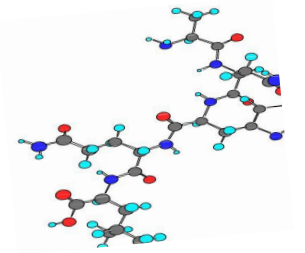
***Cite this as:*** Gaoying WANG, Jintao YUAN, Ji LUO, Dickson Kofi Wiredu OCANSEY, Xu ZHANG, Hui QIAN, Wenrong XU, Fei MAO. Emerging role of protein modification in inflammatory bowel disease[J]. Journal of Zhejiang University Science B, 2022, 23(3): 173-188.  
<https://doi.org/10.1631/jzus.B2100114>

# **Emerging role of protein modification in inflammatory bowel disease**

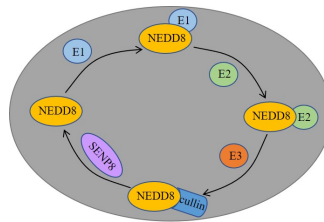
**Key words: inflammatory bowel disease, protein modification, neddylation, sumoylation, glycosylation, acetylation**

# Summary

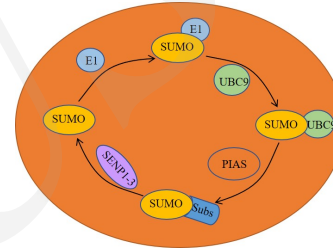
This review focuses on the process of protein modification and the mechanism of action that occurs in IBD, summarizes connections between different protein modifications, including:



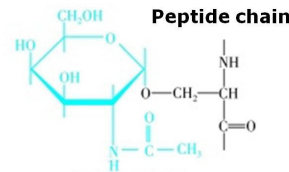
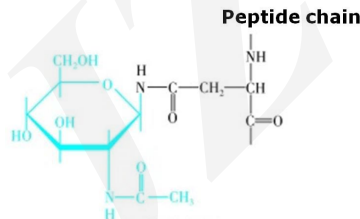
- **Neddylation**



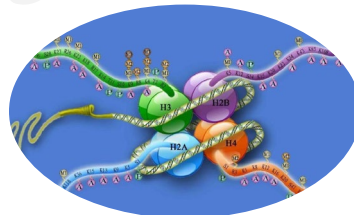
- **Sumoylation**



- **Glycosylation**

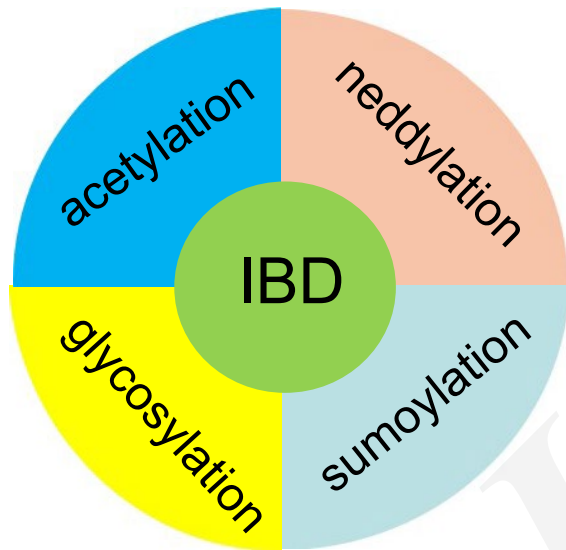


- **Acetylation**



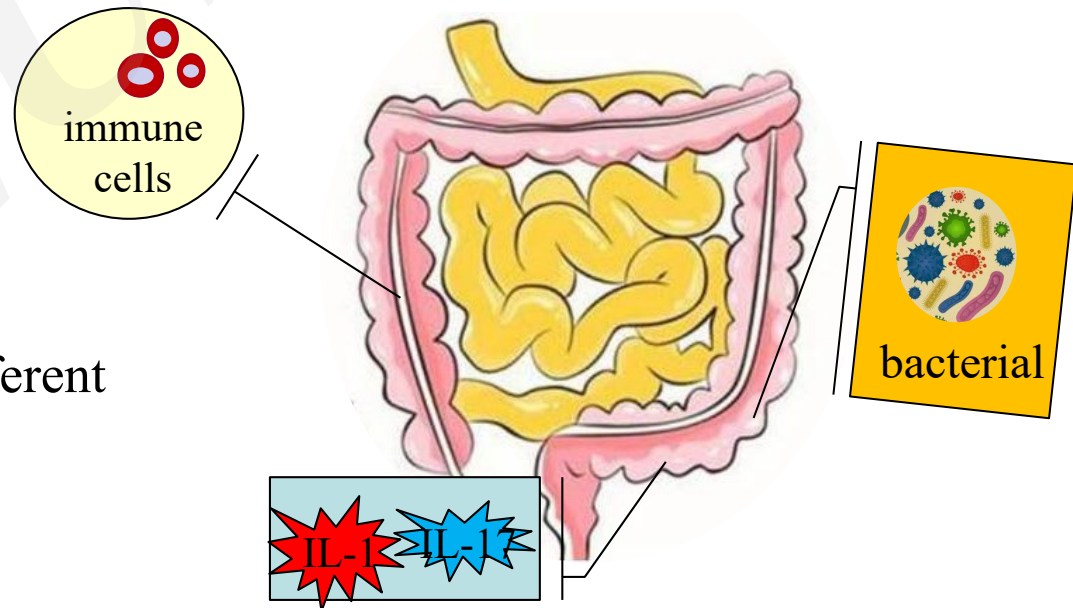
# Main contents

**The introduction** of IBD and protein modification



**The connection** and function of different modification pathways

**The mechanism** of protein modification in IBD, the change of intestinal homeostasis, the release of inflammatory factors, the destruction of the epithelial barrier



# Main contents

**A series of comprehensive figures were generated to summarize the mechanism of protein modification in IBD**

**Figure 1 | Neddylation in IBD**

**Figure 2 | Sumoylation in IBD**

**Figure 3 | Glycosylation in IBD**

**Figure 4 | Acetylation in IBD**

**Figure 5 | The connection between the four pathways**