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Commensal bacteria play a fundamental role in maintaining gut immune homeostasis

Key words: Intestinal bacteria; Inflammatory bowel disease; Virus-bacteria interaction; Immune modulation

Research Summary

This Correspondence mainly focused on how specific intestinal microbes and their metabolic small molecules maintain gut immune homeostasis.

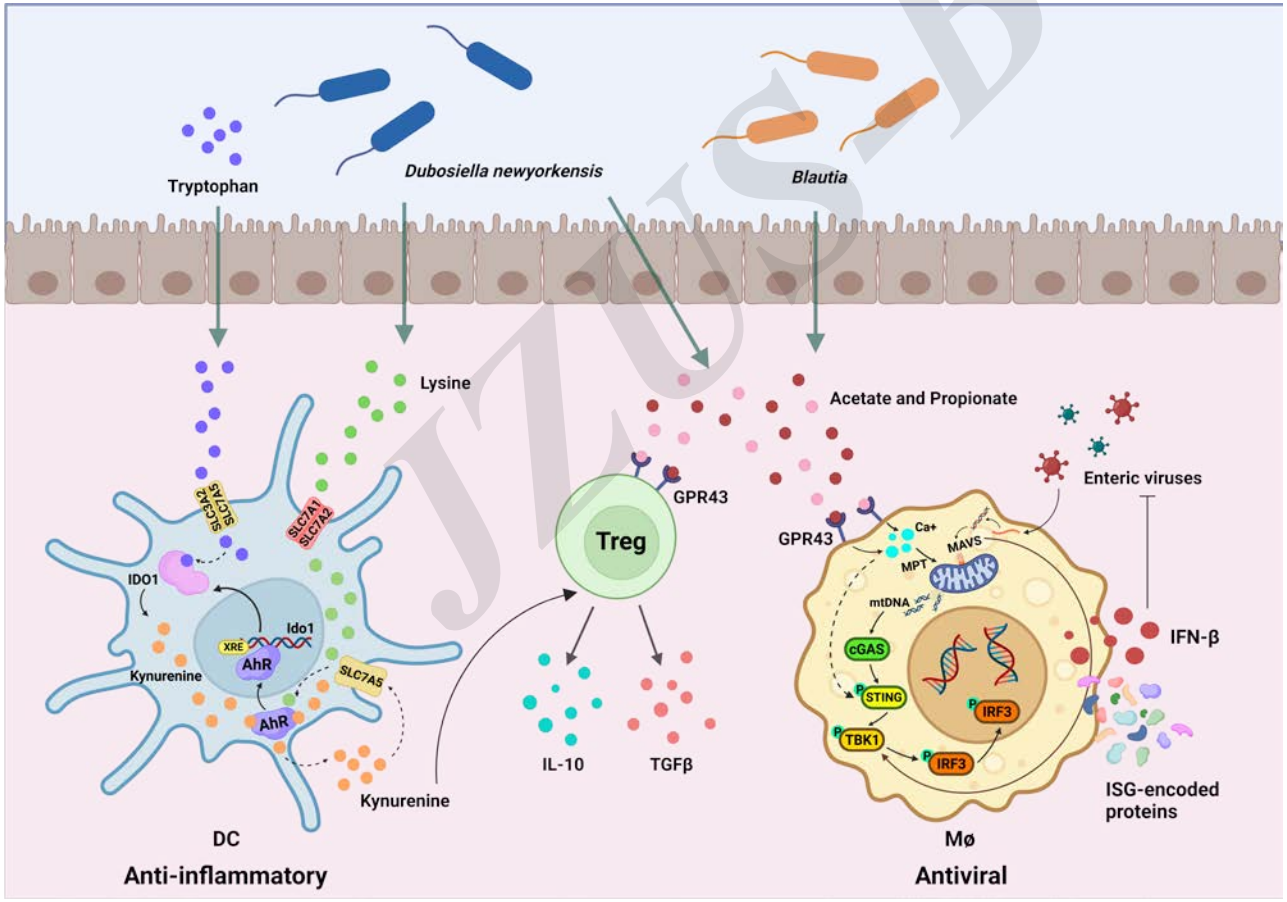

Figure 1

Innovation points

● **Introduction** **of the effects of microbial metabolites may vary across different immune cell types and host homeostasis.**

● **Summary** **findings that D. Newyorkensis priming immune tolerance by secreting metabolites (propionate and lysine) to program the metabolic pathways in dendritic cells.**

● **Emphasis** **on the gut microbiota is important for not only the maintenance and restoration of local and systemic homeostasis but also the host defense against pathogenic microorganisms.**

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