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Basic Study

Berberine prevents stress-induced gut inflammation, visceral hypersensitivity and reduces intestinal motility in rats

Yu Z *et al.* Berberine prevents stress-induced gut inflammation

Zhi-Chao Yu, Yong-Xin Cen, Ben-Hua Wu, Cheng Wei, Feng Xiong, De-Feng Li, Ting-Ting Liu, Ming-Han Luo, Li-Liangzi Guo, Ying-Xue Li, Li-Sheng

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Authors: Chunqiu Chen · Meiling Lu · Qihui Pan · Jakub Fichna · Lijun Zheng · Kesheng Wang

Affiliation: Tongji University · Medical University of Łódź · Charité

About: Physics · Biology · Ileum · **Visceral pain** · Chemistry · Diarrhea

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Oct 01, 2016 · Disturbance in the immune system of the **gastrointestinal tract**, neural pathways, **gut endocrine** characteristics as well as microbiological condition of the **gut** alters nociceptive transmission from the periphery to the **brain** via sensory nerve signaling in large subsets of subjects with IBS. 39 Commensal **intestinal bacteria** as well as **gut pathogens** can obviously alter **visceral nociception** mediated by regulating **visceral afferents** directly or through a disturbing **gut barrier function**



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Berberine prevents stress-induced gut inflammation, visceral hypersensitivity and



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Recognizing the lack of suitable IBS animal models, we chose two animal models of **visceral** hyperalgesia, induction by chronic water avoidance stress (WAS) or by repeat restraint stress (RS), to determine if rifaximin alters the **gut** microbiota, **prevents** subclinical intestinal **inflammation**, improves **gut** barrier function and **reduces visceral** ...

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mation of the intestinal mucosa, and improves **gut** barrier function to **reduce visceral hypersensitivity**. METHODS: We induced **visceral** hyperalgesia in rats, via chronic water avoidance or repeat restraint stressors, and investigated whether rifaximin altered the **gut** microbiota, prevented intestinal inflammation, and improved **gut** barrier function.

Rifaximin Alters Intestinal Bacteria and Prevents Stress ...

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Rifaximin is used to treat patients with functional gastrointestinal disorders, but little is known about its therapeutic mechanism. We propose that rifaximin modulates the ileal bacterial community, **reduces** subclinical **inflammation** of the intestinal mucosa, and improves **gut** barrier function to **reduce visceral hypersensitivity**.

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Author: Dabo Xu, Jun Gao, Merritt Gilliland, Xiao...