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**Manuscript Type:** ORIGINAL ARTICLE

### *Basic Study*

**Effect of mild moxibustion on intestinal microbiota and NLRP6 inflammasome signaling in rats with post-inflammatory irritable bowel syndrome**

Bao CH *et al.* Effect of moxibustion for PI-IBS rats

Chun-Hui Bao, Chun-Ye Wang, Guo-Na Li, Yi-Lu Yan, Di Wang, Xiao-Ming

Jin, Lu-Yi Wu, Hui-Rong Liu, Xiao-Mei Wang, Zheng Shi, Huan-Gan Wu

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Apr 19, 2016 · This supports the concept of a **microbiota–gut–inflammasome–brain** axis in which the **gut microbiota** exert some of its **effects** on brain function via the **inflammasome signaling** platform that modulates inflammatory pathways which will in turn alter brain function and affect depressive- and anxiety-like behaviors.

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Author: M.-L. Wong, A. Inserra, M. D. Lewis, C. ...

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## Does stress induce bowel dysfunction? - PubMed Central ...

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Keywords: **bowel dysfunction**, **irritable bowel syndrome**, **microbiota**, **NLRP6**, stress Psychological stress is known to cause **bowel dysfunction**. Psychological stress-associated gastrointestinal symptoms include, but are not limited to nausea, vomiting, abdominal pain and alteration in **bowel** habits [ 1 ].

Cited by: 1

Author: Yu Ming Chang, Mohamad El-Zaatari, Joh...

Publish Year: 2014

## Inflammasome signaling affects anxiety- and depressive ...

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Apr 19, 2016 · This supports the concept of a **microbiota–gut–inflammasome–brain** axis in which the **gut microbiota** exert some of its **effects** on brain function via the **inflammasome signaling** ...

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Publish Year: 2016 Author: M-L Wong

## (PDF) Gut microbiota was modulated by moxibustion ...

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Gut microbiota was modulated by **moxibustion** stimulation in rats with **irritable bowel syndrome** Article (PDF Available) in Chinese Medicine 13(1) · December ...

## Gut microbiota was modulated by moxibustion stimulation ...

<https://cmjournal.biomedcentral.com/articles/10.1186/s13020-018-0220-y> ▾

Dec 18, 2018 · The pathogenesis of **irritable bowel syndrome** (IBS) is closely related to **intestinal dysbacteriosis** and can be controlled by **moxibustion** treatment. However, the mechanism underlying the therapeutic value of **moxibustion** in IBS treatment remains unknown. An IBS rat model was established by colorectal distention (CRD) stimulus and mustard oil clyster.

Author: Xiaomei Wang, Qin Qi, Yuanyuan Wa...

Publish Year: 2018



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Stress alters brain–gut interactions and could exacerbate **intestinal** disorders, including **irritable bowel syndrome**. Alterations in the **intestinal microbiota** have been associated with **irritable bowel syndrome**. Maintenance of healthy **microbiota** requires nucleotide-binding oligomerization domain protein-like receptors, pyrin-domain containing (NLRP)-6 inflammasomes.

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Author: Yundong Sun, Yundong Sun, Min Zhang, ...

Publish Year: 2013

## The role of diet on intestinal microbiota metabolism ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4035358>

The role of diet on **intestinal microbiota metabolism**: Downstream impacts on host immune function and health, and therapeutic implications ... is an important sculptor of the **gut microbiota**. [58, 66– 68] A comparison study between two ... Marietta E, O'Neill J, et al. A controlled trial of gluten-free diet in patients with **irritable bowel** ...

Cited by: 128

Author: Jason R. Goldsmith, R. Balfour Sartor

Publish Year: 2014

## Frontiers | Rifaximin Alters Intestinal Microbiota and ...

<https://www.frontiersin.org/articles/10.3389/fcimb.2019.00044/full>

Recently, accumulating evidence has suggested that **gut microbiota** may be involved in the occurrence and development of ankylosing spondylitis (AS). It has been suggested that rifaximin have the ability to modulate the **gut** bacterial communities, prevent inflammatory response, and modulate **gut** barrier function. The goal of this work is to evaluate the protective **effects** of rifaximin in fighting ...

Cited by: 1

Author: Lianjun Yang, Bin Liu, Junchi Zheng, Jinc...

Publish Year: 2019

## Impact of microbiota on central nervous system and ...

<https://jneuroinflammation.biomedcentral.com/articles/10.1186/s12974-019-1434-3>

Mar 01, 2019 · **Gut**-brain axis is used to define the relationship between **microbiota** and their interaction with brain, resulting in changes in CNS status (Fig. 1).A notable role of human digestive system in brain development has been proposed [15, 50].Dysbiosis of microbial species may induce atypical immune **signaling**, imbalance in host homeostasis, and even CNS disease progression.

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### [Stress-Induced Corticotropin-Releasing Hormone-Mediated ...](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3777426)

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Stress alters brain–gut interactions and could exacerbate **intestinal** disorders, including **irritable bowel syndrome**. Alterations in the **intestinal microbiota** have been associated with **irritable bowel syndrome**. Maintenance of healthy **microbiota** requires nucleotide-binding oligomerization domain ...

Cited by: 68 Author: Yundong Sun, Yundong Sun, Min Zhang, ...

Publish Year: 2013

### [Stress-Induced Corticotropin-Releasing Hormone-Mediated ...](https://www.gastrojournal.org/article/S0016-5085(13)00287-4/fulltext)

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Stress alters brain–gut interactions and could exacerbate **intestinal** disorders, including **irritable bowel syndrome**. Alterations in the **intestinal microbiota** have been associated with **irritable bowel syndrome**. Maintenance of healthy **microbiota** requires nucleotide-binding oligomerization domain protein-like receptors, pyrin-domain containing (NLRP)-6 inflammasomes.

Cited by: 68 Author: Yundong Sun, Yundong Sun, Min Zhang, ...

Publish Year: 2013

### [A dietary flavone confers communicable protection against ...](https://www.researchgate.net/publication/321094717_A_dietary_flavone_confers...)

[https://www.researchgate.net/publication/321094717\\_A\\_dietary\\_flavone\\_confers...](https://www.researchgate.net/publication/321094717_A_dietary_flavone_confers...)

Thus, altered interactions between the **gut microbiota** and the host, produced by defective NLRP3 and NLRP6 inflammasome sensing, may govern the rate of progression of multiple metabolic **syndrome** ...

### [The role of diet on intestinal microbiota metabolism ...](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4035358)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4035358>

The role of diet on **intestinal microbiota metabolism**: Downstream impacts on host immune function and health, and therapeutic implications ... is an important sculptor of the **gut microbiota**. [58, 66– 68] A comparison study between two ... Marietta E, O'Neill J, et al. A controlled trial of gluten-free diet in patients with **irritable bowel** ...

Cited by: 128 Author: Jason R. Goldsmith, R. Balfour Sartor

Publish Year: 2014

### [The path toward using microbial metabolites as therapies ...](https://www.sciencedirect.com/science/article/pii/S2352396419303718)

<https://www.sciencedirect.com/science/article/pii/S2352396419303718>

Furthermore, another clinical study administered butyrate enemas in patients in remission from ulcerative colitis or **irritable bowel syndrome**; however, relatively minor **effects** were observed . Two studies aimed to look at the **effect** of either a SCFA mixture or acetate as interventional treatment in overweight male individuals with the potential