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Role of gut microbiota on intestinal barrier function in acute pancreatitis

Li *et al.* Role of gut microbiota in AP

Xue-Yang Li, Cong He, Yin Zhu, Nong-Hua Lu

Abstract

Acute pancreatitis (AP) is a common gastrointestinal disorder. Approximately 15%-20% of patients develop severe AP. Systemic inflammatory response syndrome and multiple organ dysfunction syndrome may be caused by the massive release of inflammatory cytokines in the early stage of severe AP.

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However, gut flora can migrate into the pancreas and may influence the **pancreatic microenvironment**, even in subjects with an otherwise normal pancreas. 15 Gut microbiota alterations are found in pancreatic disease and may play a role in the pathogenesis of several pancreatic diseases including **acute pancreatitis**, **chronic pancreatitis**, and **pancreatic cancer**. 14 However, there is still only limited evidence supporting a causal relationship between gut dysbiosis and **pancreatic diseases**.

Cited by: 5 Author: Venkata S. Akshintala, Rupjyoti Talukdar,...

Publish Year: 2019

Role of Gut Microbiota in the Pharmacological Effects of ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6500626>

Apr 15, 2019 · Increasing evidence has demonstrated that natural products derived from traditional Chinese medicine, such as ginseng, berberine, and curcumin, possess a wide variety of biological activities on **gut microbiota**, which may cause changes in the composition of **intestinal microbiota**, microbial **metabolites**, **intestinal** tight junction structure, and mucosal immunology.

Cited by: 3 Author: Chuyue Pan, Qinglong Guo, Na Lu

Publish Year: 2019

Breaking down the barriers: the gut microbiome, intestinal ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4604320>

Oct 14, 2015 · The fact that the **gut microbiota** are key regulators of immune **function** and inflammatory responses, it is likely that a change in the composition of **the gut microbiota** during aging plays a **role** in the gradual activation of the immune system and consequently inflammaging (Prenderville et al., 2015), possibly via an impact on **intestinal** permeability.

Cited by: 406 Author: John R. Kelly, Paul J. Kennedy, John F. C...

Publish Year: 2015

The intestinal microbiota fuelling metabolic inflammation ...

<https://www.nature.com/articles/s41577-019-0198-4>

Aug 06, 2019 · Emerging evidence indicates that these disorders are characterized by **alterations in the intestinal microbiota composition and its metabolites**, which translocate from the gut ...

Cited by: 9 Author: Herbert Tilg, Niv Zmora, Timon E. Adolph,...

Publish Year: 2019 Author: Herbert Tilg

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Cited by: 2

Author: Stelios F. Assimakopoulos, Christos Triant...

Publish Year: 2018

位置: 8600 Rockville Pike, Bethesda, MD

2018-2-8 · In conclusion, the Hippocratic quote "all disease begins in the gut" seems to be true, over 2,000 years later, for diverse pathological conditions. Our knowledge on the pivotal role of the intestinal barrier and gut microbiota in health and disease has been majorly developed and constitutes currently a scientific field of intense research.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6089582>

Microbiota-Immune Interaction in the Pathogenesis ... [翻译此页](#)

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Author: Chenyang Wang, Qiurong Li, Jianan Ren

Publish Year: 2019

Given the crucial role of the microbiota in shaping intestinal barrier integrity, it is interesting to consider whether microbiota dysbiosis and altered microbiota–host interaction is causally linked to gut-derived infection and consequent septic complications.

<https://www.frontiersin.org/articles/10.3389/fimmu.2019.01873>

Role of Gut Microbiota in the Pharmacological Effects ... [翻译此页](#)

Cited by: 4

Author: Chuyue Pan, Qinglong Guo, Na Lu



The **intestinal microbiota** plays a pivotal **role** in the maintenance of **intestinal** homeostasis and protecting the **gut** against pathogens by competing for nutrients, creating the **intestinal** biological **barrier** and modulating the host immune system. After the onset of **acute pancreatitis**, the **intestinal** hypoperfusion and the release of inflammatory mediators result in **intestinal barrier** dysfunction and **intestinal** bacteria dysbiosis. This leads to Bacterial and endotoxin translocation, which may cause infectious complications which are major causes of death in SAP patients. Recently, FMT was shown its efficacy in the treatment of gastrointestinal (GI) diseases and non-GI disorders associated with Intestinal flora disturbance by re-establishing the damaged Intestinal Bacteria homeostasis. However, the mechanism by which FMT results in cure of diseases has been poorly understood. This study aims to investigate the therapeutic potential of FMT for SAP patients with **intestinal barrier** dysfunction.

[Fecal Microbiota Transplantation for Pancreatitis - Full ...](#)
clinicaltrials.gov/ct2/show/NCT02318134

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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6089582>

Feb 08, 2018 · The latter function is known as barrier function . The gut barrier function is comprised by three major lines of defence : 1) The biological barrier, which is made up of normal ... +

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Publish Year: 2018

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However, **gut flora** can migrate into the **pancreas** and may influence the **pancreatic microenvironment**, even in subjects with an otherwise normal **pancreas**. 15 **Gut microbiota** ... +

Cited by: 6 **Author:** Venkata S. Akshintala, Rupjyoti Talukdar, ...