**Name of Journal:** *World Journal of Gastroenterology*

**Manuscript NO:** 54645

**Manuscript Type:** MINIREVIEWS

# Role of γδT cells in liver diseases and its relationship with intestinal microbiota

Qi-Hui Zhou, Feng-Tian Wu, Lan-Tian Pang, Tian-Bao Zhang, Zhi Chen

**Abstract**

γδT cells are unconventional T lymphocytes that bridge innate and adaptive immunity. Based on the composition of T cell receptor and the cytokines produced, γδT cells can be divided into diverse subsets that may be present at different locations, including the liver, epithelial layer of the gut, the dermis and so on. Many of these cells perform specific functions in liver diseases,

国内版 国际版

The role of γδT cells in liver diseases and its relationship

ALL IMAGES VIDEOS

505,000 Results Any time

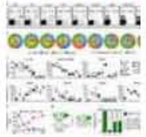
## Gut microbiota and liver diseases - PubMed Central (PMC)

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4323444

Feb 14, 2015 · Moreover, interactions between **gut microbiota** and **the liver** [ 8 - 12] or **brain** [ 13 - 15] have been analyzed. **The composition** of **the microbiota** is also associated with various **diseases**. In this review, we summarize the current understanding of **the role of gut microbiota**, especially in **relation** to **liver diseases**,...

**Cited by:** 80 **Author:** Masami Minemura, Yukihiro Shimizu
**Publish Year:** 2015

## The microbiota maintain homeostasis of liver-resident γδT ...



https://www.nature.com/articles/ncomms13839

Jan 09, 2017 · However, although **hepatic γδT cells** are involved in several **liver immune diseases** 8, their **physiological** characteristics, and why **the liver** contains such high levels of **γδT cells**...

**Cited by:** 51 **Author:** Fenglei Li, Xiaolei Hao, Yongyan ...
**Publish Year:** 2017

## Intestinal microbiota in health and disease: Role of ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4223251

Nov 07, 2014 · The alteration of **intestinal** barrier **function**, with increased gut permeability, has a major **role** in IBS; nevertheless, **its relationship** with altered **microbiota** remains to be fully understood. Modulation of enteric sensorimotor **function**, through alterations in bile acid metabolism by **microbiota**, has been described in several in vitro studies[ 59 ].

**Cited by:** 266 **Author:** Rafael Tojo, Adolfo Suárez, Marta G Cle...

Chat with Bing

Have you ever chatted with a search engine?

Say something...

国内版 国际版

Role of γδT cells in liver diseases and its relationship with

ALL IMAGES VIDEOS

480,000 Results Any time

## Gut Microbiota's Relationship with Liver Disease and Role ...

https://www.mdpi.com/2072-6643/10/10/1457/htm?elq...

Targeting gut **microbiota** modulation represents a promising strategy for hepatoprotection. Many natural products could protect the **liver** from various injuries or mitigate hepatic disorders by reverting gut dysbiosis, improving **intestinal** permeability, altering the ...

**Cited by:** 15 **Author:** Xiao Meng, Sha Li, Ya Li, Ren-You Gan, ...
**Publish Year:** 2018

## The role of the gut microbiome in chronic liver disease ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7001555

Jul 31, 2019 · Based on the above studies, there is likely an association between the IM and **liver disease**, but a causal **relationship** has yet to be confirmed. Several studies looking at the effect of IM manipulation by pre-, pro- and synbiotics, as well as faecal **microbiota** transplant (FMT), suggest that the IM has a **role in liver diseases**.

**Cited by:** 3 **Author:** Katherine Jp Schwenger, Katherine Jp Sc...
**Publish Year:** 2019

## Intestinal microbiota in health and disease: Role of ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4223251

Nov 07, 2014 · **Clostridium difficile infection**. The only **disease** process in which a dysbiotic microbiota plays an undoubtedly proven **role** is in the case of Clostridium **difficile infection** (CDI). **Treatment** with antibiotics transiently alters the microbiota composition, providing the ...

**Cited by:** 266 **Author:** Rafael Tojo, Adolfo Suárez, María G Cla...

## Intestinal microbiota in health and disease: Role of ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4223251

Nov 07, 2014 · **Clostridium difficile infection**. The only **disease** process in which a dysbiotic microbiota plays an undoubtedly proven **role** is in the case of Clostridium **difficile infection** (CDI). **Treatment** with antibiotics transiently alters the microbiota composition, providing the ...

**Cited by:** 266 **Author:** Rafael Tojo, Adolfo Suárez, Marta G Cle...
**Publish Year:** 2014

## Gut Microbiota's Relationship with Liver Disease and Role ...

https://www.mdpi.com/2072-6643/10/10/1457/htm?elq...

Targeting gut **microbiota** modulation represents a promising strategy for hepatoprotection. Many natural products could protect the **liver** from various injuries or mitigate hepatic disorders by reverting gut dysbiosis, improving **intestinal** permeability, altering the ...

**Cited by:** 15 **Author:** Xiao Meng, Sha Li, Ya Li, Ren-You Gan, ...
**Publish Year:** 2018

## The Roles of Liver-Resident Lymphocytes in Liver Diseases

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6648801

It is hypothesized that **liver**-resident or memory **γδT cells** have a protective effect against infection or tumor formation, and thus exert a critical **role** in local hepatic immunosurveillance . The exact characteristics of **liver**-resident or memory **γδT cells** and their **roles in liver**-related **diseases** require further investigation.

**Author:** Yanan Wang, Cai Zhang **Publish Year:** 2019

## Gut microbiota and liver diseases - PubMed Central (PMC)

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4323444



Feb 14, 2015 · The **role of gut microbiota** in **gut immune maturation**, including the numbers of