Name of Journal: *World Journal of Gastroenterology*

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Manuscript Type: REVIEW

Incorporating mucosal-associated invariant T cells into the pathogenesis of chronic liver disease

MAIT cells in chronic liver disease

Abstract

Mucosal-associated invariant T cells have been described in liver and non-liver diseases, and they have been ascribed antimicrobial, immune regulatory, protective, and pathogenic roles. The goals of this review are to describe their biological properties, indicate their involvement in chronic liver disease, and encourage investigations that clarify their actions and therapeutic implications. English abstracts were identified in PubMed by multiple search terms, and bibliographies were developed. Mucosal-associated invariant T cells are activated by restricted non-peptides of limited diversity

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Sep 12, 2019 · **Mucosal-associated invariant** T (MAIT) cells are innate T cells that recognize bacterial riboflavin and rapidly produce cytokines such as interferon γ and tumor necrosis factor α.

Cited by: 2 **Author:** Hisayo Matsuyama, Takuma Isshiki, Taku...
Publish Year: 2019

Circulating mucosal-associated invariant T cells in ...

https://onlinelibrary.wiley.com/doi/full/10.1002/iid3.287

When these bacteria traverse the urethra, they are challenged by innate defense mechanisms within the bladder. 8 **Mucosal-associated invariant** T (MAIT) cells are innate-like T **cells** that play a role in the antibacterial and antifungal response by recognizing riboflavin metabolites produced by these organisms. 9 MAIT cells comprise 0.1% to 10% of the circulating T-cell population, 10 are abundant in the **liver,** ...

Cited by: 2 **Author:** Matty L. Terpstra, Ester B. M. Remmers...
Publish Year: 2020

Intra-hepatic Depletion of Mucosal Associated Invariant T ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5669813

Chronic hepatitis affects phenotypes of innate and adaptive immune cells. **Mucosal associated invariant** T (MAIT) cells are enriched in the **liver** as compared **to** the blood, respond **to** intra-hepatic cytokines, and (via the semi-invariant T-cell receptor) to bacteria translocated from the gut.

Cited by: 68 **Author:** Fabian J. Bolte, Ashley C. O'Keefe, Laur...
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Frontiers | Mucosal-Associated Invariant T Cells Improve ...

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Mucosal-associated invariant T (MAIT) **cells**, a novel population of innate-like lymphocytes, have been involved in various inflammatory and autoimmune diseases. However, their role **in** the development of nonalcoholic fatty **liver disease** (NAFLD) remains unclear.

Cited by: 15 **Author:** Yanmei Li, Bingyuan Huang, Xiang Jiang, ...
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Cited by: 5 **Author:** Hisayo Matsuyama, Takuma Isshiki, Takum...
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Cited by: 91 **Author:** Amine Toubal, Amine Toubal, Isabelle Nel, I...
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Cited by: 80 **Author:** Fabian J. Bolte, Ashley C. O'Keefe, Lauren ...
Publish Year: 2017

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Mucosal associated invariant T cell

Mucosal associated invariant T cells make up a subset of T cells in the immune system that display innate, effector-like qualities. In humans, MAIT cells are found in the blood, liver, lungs, and mucosa, defending against microbial activity and infection. The MHC class I-like protein, MR1, is responsible for presenting bacterially-produced vitamin B metabolites to MAIT cells. After the presentation of foreign antigen by MR1, MAIT cells secrete pro-inflammatory cytokines and are capable of lysing bacterially-infected cells. MAIT cells can also be activated through MR1-independent signaling. In addition to possessing innate-like functions, this T cell subset supports the adaptive immune response and has a memory-like phenotype. Furthermore, MAIT cells are thought to play a role in autoimmune diseases, such as multiple sclerosis, arthritis and inflammatory bowel disease, although definitive evidence is yet to be published.

Wikipedia

Data from: Wikipedia

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