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Observational Study

Mucosal-associated invariant T cells in hepatitis B virus-related liver failure

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Abstract

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Mucosal-associated invariant T (MAIT) cells are enriched in the **human liver** and can be activated by inflammatory cytokines and microbial antigens. In **chronic inflammatory liver disease**, **MAIT cells** are depleted suggesting an impaired **MAIT cell-dependent** protection against **bacterial infections**.

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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.

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