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**Immune response to *Helicobacter pylori* infection and gastric cancer development**

Immunology, H. pylori, and gastric cancer

### Abstract

Gastric adenocarcinoma is a global health concern and has *H. pylori* infection as the main risk factor for its occurrence. Of note, the immune response against the pathogen seems to be a determining factor for gastric oncogenesis, and increasing evidence have emphasized several host and bacterium factors that probably influence in this setting. The development of an inflammatory process against *H. pylori* involves a wide range of mechanisms such as the activation of pattern recognition receptors and intracellular pathways resulting in the production of proinflammatory cytokines by gastric epithelial cells. This process culminates in the establishment of distinct immune response profiles

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Immune response to Helicobacter pylori infection and gastric cancer



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Chronic **infection** with **Helicobacter pylori** (H. **pylori**) is a significant risk factor for **gastric cancer**. The host's **immune response** (chronic inflammation) coupled with H. **pylori**'s activity (release of toxic virulence factors) are some of the mechanisms that initially promote **cancer**.

[H. pylori infection accelerates events that lead to ...](#)

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Role of the host **immune response** in H. **pylori-induced** carcinogenesis. In considering the importance of host **immune/inflammatory responses** in the pathogenesis of H. **pylori-induced gastric cancer**, it is essential to evaluate the potential mechanisms for how **immune** dysregulation contributes to neoplastic



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Helicobacter pylori, previously known as Campylobacter pylori, is a gram-negative, microaerophilic, spiral bacterium usually found in the stomach. Its helical shape is thought to have evolved in order to penetrate the mucoid lining of the stomach and thereby establish infection. The bacterium was first identified in 1982 by Australian doctors Barry Marshall and Robin Warren. H. pylori has been associated with lymphomas of the mucosa-associated lymphoid tissue in the stomach, esophagus, colon, rectum, or tissues around the eye, and of lymphoid tissue in the stomach.

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