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Helicobacter pylori virulence genes

Šterbenc A *et al.* *Helicobacter pylori* virulence genes

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Abstract

Helicobacter pylori (*H. pylori*) is one of the most important human pathogens, infecting approximately half of the global population. Despite its high prevalence, only a subset

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However, it is important to note that it is generally difficult to establish specific roles for the majority of the **virulence genes** of *H. pylori* since the same **gene** or group of **genes** may affect pathogenicity in several ways: contributing to the infection, host cell function, persistence and tissue damage.

Mechanisms of disease: Helicobacter pylori virulence factors

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3137895>

Type IV secretion system in the *Helicobacter pylori* plasticity zone. **Gene** arrangement in the plasticity region of *H. pylori* strain Shi470, which has a complete dupA cluster (named tfs3a [type IV secretion 3a]) and functional dupA **gene sequence**, in comparison ...

Cited by: 471

Author: Yoshio Yamaoka

Publish Year: 2010

Helicobacter pylori Virulence and Genetic Geography | Science

science.sciencemag.org/content/284/5418/1328.full ▼

May 21, 1999 · Isolated for the first time in 1982 from human gastric biopsy, *Helicobacter pylori* is responsible for gastritis, peptic ulcer, and gastric cancer. A pathogenicity island acquired by horizontal transfer, coding for a type IV secretion system, is a major determinant of **virulence**. The infection is now treated with antibiotics, and vaccines are in preparation.

Cited by: 1279

Author: Antonello Covacci, John L. Telford, Giuse...

Publish Year: 1999

Detection of Helicobacter pylori and its virulence genes ...

<https://www.pubfacts.com/detail/31088381/Detection-of-Helicobacter-pylori-and-its...> ▼

Development of *H. pylori*-associated diseases is determined by a number of **virulence** factors. This study aimed at determining the prevalence of *H. pylori* infections and **virulence genes** (cagA, dupA, and vacA); the relationship between **virulence** factors and gastroduodenal diseases among patients.

Helicobacter pylori virulence genes in the five largest ...

<https://gutpathogens.biomedcentral.com/articles/10.1186/s13099-015-0072-2> ▼

Oct 05, 2015 · Several **genes** have been proposed as possible **virulence determinants**: cagA, vacA, oipA, iceA, dupA, jhp0562, and β -(1,3)galT [2, 3]. cagA is the major *H. pylori* **virulence factor**. The sequence of the second repeat region was found to differ considerably between East-Asian-type-cagA and Western-type-cagA.

Cited by: 11

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Helicobacter pylori virulence genes



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Virulence-associated genes *Helicobacter pylori* is a **Gram-negative spiral-shaped bacterium** that persistently colonizes the human gastric mucosa.



Genotyping of *Helicobacter pylori* virulence-associated ...

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Type IV secretion system in the *Helicobacter pylori* plasticity zone. Gene arrangement in the plasticity region of *H. pylori* strain Shi470, which has a complete dupA cluster (named tfs3a [type IV secretion 3a]) and functional dupA gene sequence, in comparison ...

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Author: Yoshio Yamaoka

Publish Year: 2010

Helicobacter Pylori -Virulence Factors (and how to test)

<https://www.planetnaturopath.com/functional-medicine/helicobacter-pylori-virulence-factors> ▾

May 27, 2019 - *Helicobacter pylori* infection can cause a range of digestive symptoms but not



Virulence-associated genes *Helicobacter pylori* is a **Gram-negative spiral-shaped bacterium** that persistently colonizes the human gastric mucosa.

Genotyping of *Helicobacter pylori* virulence-associated ...

www.sciencedirect.com/science/article/pii/S1201971213001252

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Mechanisms of disease: *Helicobacter pylori* virulence factors

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3137895>

Helicobacter pylori plays an essential role in the development of various gastroduodenal diseases; however, only a small proportion of people infected with *H. pylori* develop these diseases. Some populations that have a high prevalence of *H. pylori* infection also have a high incidence of gastric cancer (for example, in East Asia), whereas others do not (for example, in Africa and South Asia).

Cited by: 486

Author: Yoshio Yamaoka

Publish Year: 2010

Helicobacter Pylori -Virulence Factors (and how to test)

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May 27, 2019 · Cag PAI (Cag pathogenicity island). This "island" includes two genes: *virB* and *virD*. Cag PAI is a section of the *H. pylori* genome that encodes CagA and a Type IV Secretion System, a multiprotein complex that mediates the transfer of *H. pylori* virulence factors – including CagA – into gastric epithelial cells.

Helicobacter Pylori: Phenotypes Genotypes and Virulence

Helicobacter pylori

Gram-Negative Microaerophilic Bacterium

Helicobacter pylori, previously known as *Campylobacter pylori*, is a Gram-negative, microaerophilic bacterium usually found in the stomach. It was identified in 1982 by Australian scientists Barry Marshall and Robin Warren, who found that it was present in a person with chronic gastritis and gastric ulcers, conditions not previously believed to have a microbial cause. It is also linked to the development of duodenal ulcers and stomach cancer. However, over 80% of individuals infected with the bacterium are asymptomatic, and it may play an important role in the natural stomach ecology.

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