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Case Control Study

Characterization and strong risk association of *TLR2* del -196 to -174 polymorphism and *Helicobacter pylori* and their influence on mRNA expression in gastric cancer

Helicobacter pylori and *TLR2* in gastric diseases

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Abstract

BACKGROUND

Match Overview

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The Role of TLR2, TLR4 and CD14 Genetic Polymorphisms in ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3614925>

Association between TLR2 -196 to -174del and Risk of Gastric Cancer. Interestingly, when a sensitivity analysis (one study removed) was conducted, in which the study by Zeng et al. [43] was excluded, a significant association was observed between TLR2 -196 to -174del and risk of GC (pooled OR: 1.41, 95% CI: 1.05–1.90).

Cited by: 69 Author: Natalia Castaño-Rodríguez, Nadeem O. K...
Publish Year: 2013

Toll-like receptor 2 and 4 polymorphisms associated with ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6389301>

To our knowledge, this is the first study to assess the SNPs of TLR2 rs3804099 and rs3804100 and TLR4 rs10759932 in association with risk of gastric lesion development and H. pylori susceptibility. In the present study, we found that TLR4 rs10759932, but not TLR2 rs3804099 and rs3804100, was associated with risk of premalignant/malignant and H. pylori susceptibility.

Cited by: 1 Author: Taweesak Tongtawee, Theeraya Simawar...
Publish Year: 2018

Toll-like receptor 9 polymorphisms and Helicobacter pylori ...

<https://www.wjgnet.com/1948-5204/full/v11/i11/998.htm>

Core tip: This study investigated the influence of Toll-like receptor 9 (TLR9) polymorphisms on mRNA and Helicobacter pylori (H. pylori) infection in gastric cancer samples, and the association of these single nucleotide polymorphisms with the risk of developing this neoplasm. Increased expression of TLR9 in tumor tissue was observed compared with chronic gastritis and normal tissue.

Author: Manoela Dias Susi, de Matos Lourenç... Publish Year: 2019

Single-nucleotide polymorphisms in Toll-like receptor ...

<https://www.sciencedirect.com/science/article/pii/S1567134819301066>

Helicobacter pylori (H. pylori) causes chronic inflammation and is the main risk factor for GC, which progresses through a multistep process, developing from gastritis to gastric atrophy, intestinal metaplasia, dysplasia, and finally to carcinoma (Correa, 1988), and approximately 50% of the world's population is infected with H. pylori, with almost 74.7% of new cases of noncardia GC attributed to this bacterium ...

Cited by: 1 Author: Dan Zhao, Yan-hua Wu, Tian-cheng Zhao,...
Publish Year: 2019



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[Pathogenesis of Helicobacter pylori Infection - Delahay ...](#)

<https://onlinelibrary.wiley.com/doi/full/10.1111/j.1523-5378.2012.00976.x>

These factors collectively determine the ability of *H. pylori* to colonize the gastric mucosa and profoundly **influence** the nature of the ... of *H. pylori* within a viscous medium such as gastric mucous 5. *Helicobacter pylori* also colonizes the epithelial cell surface from where ... associated with increased **risk** of gastric cancer.

Cited by: 108 **Author:** Dionyssios N. Sgouras, Tran Thi Huyen T...

Publish Year: 2002

[Helicobacter pylori infection and gastric cancer | Request PDF](#)

https://www.researchgate.net/.../8266378_Helicobacter_pylori_infection_and_gastric_cancer

Helicobacter pylori infection has an **association** with histological gastritis, gastric atrophy, gastric cancer, and mucosa-associated lymphoid tissue (MALT) lymphoma in the stomach.

[Interaction of Cyclooxygenase-2 Promoter Polymorphisms ...](#)

https://www.researchgate.net/publication/51094529_Interaction_of_Cyclooxygenase-2...

Interaction of Cyclooxygenase-2 Promoter Polymorphisms With *Helicobacter pylori* Infection and **Risk** of Gastric Cancer Article in *Molecular Carcinogenesis* 50(11):876-83 · November 2011 with 78 Reads

[\(PDF\) Helicobacter pylori: Determinant and Markers of ...](#)

<https://www.academia.edu/18907884/Helicobacter...> ▾

It has been demonstrated that Va- tory diseases in the pathogenesis of vascular cardiac M.T. Mascellino et al. / *Helicobacter pylori* virulence markers 145 Table 2 Genetic polymorphisms and *H. pylori* infection **Polymorphism** site Effect **Association** with *H. pylori* infection Immune mediators IL-1 gene cluster Higher IL-1B **expression** Higher ...

[Role of NOD1/CARD4 and NOD2/CARD15 gene polymorphisms in ...](#)

<https://www.sciencedirect.com/science/article/pii/S0198885911001479>

Because the MDP of *M. tuberculosis* and *S. pneumoniae* is a ligand for NOD2/CARD15, ie-DAP of *C. pneumoniae* is a ligand for NOD1/CARD4, and because it was proposed that tuberculosis , and recurrent pneumonia may increase **risk** of lung cancer, it is possible that NOD2/CARD15 and NOD1/CARD4 gene



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Pathogenesis of Helicobacter pylori Infection - Delahay ...

<https://onlinelibrary.wiley.com/doi/full/10.1111/j.1523-5378.2012.00976.x>

These factors collectively determine the ability of *H. pylori* to colonize the gastric mucosa and profoundly **influence** the nature of the ... of *H. pylori* within a viscous medium such as gastric mucous 5. *Helicobacter pylori* also colonizes the epithelial cell surface from where ... associated with increased risk of gastric cancer.

Cited by: 84 **Author:** Masanori Hatakeyama, Tomasz Brzozowski
Publish Year: 2002

Helicobacter pylori: Gastric cancer and beyond

<https://www.researchgate.net/publication/44623692...>

Gastric carcinoma is the second most common cancer-specific cause of death worldwide and the third most prevalent cancer in East Asia. 1 Infection with *Helicobacter pylori* is a **strong** risk factor ...

Toll-Like Receptor 9 in Breast Cancer - PubMed Central (PMC)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4105583>

TLR9 Expression in Breast Cancer. Toll-like receptor 9 **expression** has been detected in cells of breast milk (TLR9 **mRNA**) and also in normal epithelial cells of the mammary gland (TLR9 protein) (24, 25). TLR9 **mRNA** and protein are also widely expressed in various human cancer-cell lines as well as in clinical cancer specimens, including breast, prostate, brain, gastric, renal cell carcinoma, and ...

Cited by: 16 **Author:** Jouko Sandholm, Katri S. Selander
Publish Year: 2014

Relevance of DNA repair gene polymorphisms to gastric ...

www.oncotarget.com/index.php?journal=oncotarget...

Although variations in intronic structure have been proposed to **influence** cancer susceptibility via regulation of gene **expression**, gene splicing, or **mRNA** stability, the functional relevance of rs9894946 for p53 **expression** or function is still unknown. It is also plausible that this intronic **polymorphism** is in

LD with other functional SNPs that ...