

**Name of Journal:** *World Journal of Gastroenterology*

**Manuscript NO:** 48751

**Manuscript Type:** REVIEW

**Review of current diagnostic methods and advances in *Helicobacter pylori* diagnostics in the era of next generation sequencing**

Pohl D *et al.* Advances in *H. pylori* diagnostics

Daniel Pohl, Peter M Keller, Valentine Bordier, Karoline Wagner

### Abstract

*Helicobacter pylori* (*H. pylori*) infection is highly prevalent in the human population and may lead to severe gastrointestinal pathology including gastric and duodenal ulcers

### Match Overview

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## An updated review of gastric cancer in the next-generation ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3983448>

Apr 14, 2014 · INTRODUCTION. **Methylation** of the **genes** in blue appears to be involved in an epigenetic field **defect**. **H. pylori** ... **Next-generation sequencing** (NGS) is a technology that involves the parallel **sequencing** of enormous amounts of short DNA strands from randomly fragmented copies of a genome [ 7, 8 ].

**Cited by:** 56

**Author:** Hiroyuki Yamamoto, Yoshiyuki Watanabe...

**Publish Year:** 2014

## Advanced Diagnostics for Infectious Disease Conference

[www.healthtech.com/Infectious-Disease-Dx](http://www.healthtech.com/Infectious-Disease-Dx) ▾

Recent **advances** in technology have rapidly changed the landscape of infectious **disease diagnostics**. Novel technologies (and **new** uses for already standard technologies!) such as **next-generation sequencing** (NGS) and mass spectrometry are changing the way that researchers perform rapid **diagnostics** and detect antimicrobial resistance.

## Discovery of novel mutations for clarithromycin resistance ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4054984>

Mar 19, 2014 · Determination of candidate mutations. We sequenced the **genome** DNA of three in **vitro** **H. pylori** strains: 26695-1 and two clarithromycin-resistant strains obtained by in vitro selection using a **next-generation sequencer** (90 bp pair-end, library length ...

**Cited by:** 24

**Author:** Tran Thanh Binh, Tran Thanh Binh, Seiji...

**Publish Year:** 2014

## (PDF) An updated review of gastric cancer in the next ...

[https://www.researchgate.net/publication/261761515\\_An\\_updated\\_review\\_of\\_gastric\\_cancer...](https://www.researchgate.net/publication/261761515_An_updated_review_of_gastric_cancer...)

An updated review of gastric cancer in the **next-generation sequencing era**: Insights from bench to bedside and vice versa ... (**H. pylori**) infection, but only ... Gastric cancer in the **next** ...

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## An updated review of gastric cancer in the next-generation ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3983448>

Apr 14, 2014 · Recent **advances** in the **molecular research** of GC have introduced new **diagnostic and therapeutic strategies** to **clinical settings**. In this **review**, we summarize the key findings of past reports pertaining to the genetics and epigenetics of GC and their relationship to and future applications in next-generation sequencing (NGS).

**Cited by:** 59

**Author:** Hiroyuki Yamamoto, Yoshiyuki Watanabe...

**Publish Year:** 2014

## New Diagnostic Strategies for Detection of Helicobacter ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4606978>

The **current ESPGHAN** and **NASPGHAN guidelines** do not **recommend diagnostic testing** for **H pylori infection** in children experiencing pain, nausea, or other dyspeptic symptoms, owing to the nonspecific nature of these events. 1 Several studies have failed to find an association or causal relationship between abdominal pain and **H pylori infection**. 2-4 In contrast, symptoms of **peptic ulcer disease**, such as epigastric pain and upper **gastrointestinal** ...

**Cited by:** 8

**Author:** Benjamin D. Gold, Mark A. Gilger, Steven...

**Publish Year:** 2014

## Helicobacter pylori treatment in the era of increasing ...

<https://gut.bmj.com/content/59/8/1143> ▾

Aug 01, 2010 · With few exceptions, the most commonly **recommended triple Helicobacter pylori regimen** (**proton pump inhibitor (PPI)**, **amoxicillin** and **clarithromycin**) now provides unacceptably **low treatment success**. A review of worldwide results suggests that successful **eradication** using a **triple regimen** is not consistently observed in any population.

**Cited by:** 877

**Author:** David Y Graham, Lori Fischbach

**Publish Year:** 2010

## Expert Review of Molecular Diagnostics | RG Journal Impact ...

[https://www.researchgate.net/journal/1473-7159\\_Expert\\_Review\\_of\\_Molecular\\_Diagnostics](https://www.researchgate.net/journal/1473-7159_Expert_Review_of_Molecular_Diagnostics)

Expert Review of Molecular Diagnostics provides expert reviews on molecular diagnostic technologies and applied pharmacogenomics in clinical medicine.

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### Detection of clarithromycin-resistant Helicobacter pylori ...

<https://www.sciencedirect.com/science/article/pii/S2213716516000084>

Various molecular **methods** have been developed to rapidly detect clarithromycin (CLR) resistance in **Helicobacter pylori** isolates in clinical specimens. All of these assays for detecting CLR resistance in **H. pylori** are based on detection of mutations in the 23S rRNA gene. In this article, we summarise **current** knowledge regarding the detection of **H. pylori** CLR resistance in clinical specimens by ...

Cited by: 6 Author: Shi-Hai Xuan, Li-Pei Wu, Yu-Gui Zhou, M...

Publish Year: 2016

### Expert Review of Molecular Diagnostics | RG Journal Impact ...

[https://www.researchgate.net/journal/1473-7159\\_Expert\\_Review\\_of\\_Molecular\\_Diagnostics](https://www.researchgate.net/journal/1473-7159_Expert_Review_of_Molecular_Diagnostics)

Journal description. **Expert Review of Molecular Diagnostics** provides expert **reviews** on molecular **diagnostic** technologies and applied pharmacogenomics in clinical medicine.

### Emerging Rapid Resistance Testing Methods for Clinical ...

<https://www.hindawi.com/journals/bmri/2014/375681> ▾

"**Next generation Sequencing** for typing and detection of resistance genes: performance of a new commercial **method** during an outbreak of ESBL-producing Escherichia coli," Journal of Clinical Microbiology, vol. 52, no. 7, pp. 2454–2460, 2014.

Cited by: 30 Author: Hagen Frickmann, Wycliffe Omurwa Mas...

Publish Year: 2014

### An updated review of gastric cancer in the next-generation ...

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Apr 14, 2014 · Recent **advances** in the molecular research of GC have introduced new **diagnostic** and therapeutic strategies to clinical settings. In this **review**, we summarize the key findings of past reports pertaining to the genetics and epigenetics of GC and their relationship to and future applications in **next-generation sequencing** (NGS).

Cited by: 59 Author: Hiroyuki Yamamoto, Yoshiyuki Watanabe,...

Publish Year: 2014

### Gastric Cancer In The Precision Medicine Era - Diagnosis ...

<https://www.springer.com/gp/book/9783030048600> ▾

The first chapters will **review** the interplay between pathogens and especially **H. pylori**, inflammation, genomic instability, and tumorigenesis. Secondly, an exhaustive overview of the **diagnosis** of gastric cancer from a clinical/endoscopic and pathologic perspectives will be illustrated.