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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



国内版

国际版

Advances in H. pylori diagnostics in the era of next generation sequencing



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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 ▼

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 ...

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

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

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



4,540 Results

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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

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 ...

<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

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.