

**PEER-REVIEW REPORT**

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

**Manuscript NO:** 32672

**Title:** Molecular mimicry in H. pylori infections

**Reviewer’s code:** 00183459

**Reviewer’s country:** Italy

**Science editor:** Ze-Mao Gong

**Date sent for review:** 2017-01-21

**Date reviewed:** 2017-02-03

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input checked="" type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good		<input type="checkbox"/> Duplicate publication	
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade E: Poor	<input type="checkbox"/> Grade D: Rejected	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Minor revision
		BPG Search:	<input checked="" type="checkbox"/> Major revision
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

**COMMENTS TO AUTHORS**

This is a review article focusing on molecular mimicry mechanisms between host and H. pylori antigens. The topic is extremely interesting. Specific comments are: 1. There is no mention in the manuscript between molecular mimicry between H. pylori and platelet antigens. There are, in fact, some studies on that issue: a) Cheng YS, Kuang LP, Zhuang CL, Jiang JD, Shi M. Effects of cytotoxin-associated gene A (CagA) positive Helicobacter pylori infection on anti-platelet glycoprotein antibody producing B cells in patients with primary idiopathic thrombocytopenic purpura (ITP). Pak J Med Sci. 2015 Jan-Feb;31(1):121-6. doi: 10.12669/pjms.311.6409. b) Johnsen J. Pathogenesis in immune thrombocytopenia: new insights. Hematology Am Soc Hematol Educ Program. 2012;2012:306-12. doi: 10.1182/asheducation-2012.1.306. Review. c) Franceschi F, Christodoulides N, Kroll MH, Genta RM. Helicobacter pylori and idiopathic thrombocytopenic purpura. Ann Intern Med. 2004 May 4;140(9):766-7. d) Takahashi T, Yujiri T, Shinohara K, Inoue Y, Sato Y, Fujii Y, Okubo M, Zaitzu Y, Ariyoshi K, Nakamura Y, Nawata R, Oka Y, Shirai M, Tanizawa Y. Molecular mimicry by



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Helicobacter pylori CagA protein may be involved in the pathogenesis of H. pylori-associated chronic idiopathic thrombocytopenic purpura. Br J Haematol. 2004 Jan;124(1):91-6. 2. I would also suggest to conclude that H. pylori infection is a unique model of host bacterial interaction and molecular mimicry mechanisms; since we have a high variety of bacteria composing our microbiota, we should put more efforts on the understanding of molecular mimicry mechanisms as a trigger for some extraintestinal diseases.

**PEER-REVIEW REPORT**

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

**Manuscript NO:** 32672

**Title:** Molecular mimicry in H. pylori infections

**Reviewer’s code:** 02536365

**Reviewer’s country:** South Korea

**Science editor:** Ze-Mao Gong

**Date sent for review:** 2017-01-21

**Date reviewed:** 2017-02-03

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> No	<input type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input type="checkbox"/> No	

**COMMENTS TO AUTHORS**

This is a well described and extensively reviewed article on the relationship between Helicobacter pylori and several extragastric diseases. The authors have deep knowledge and insights on the relationship between them. The authors also have had a some success to hypothesize the underlying pathogenic mechanisms of the H. pylori-several extragastric diseases sequences. The following sentences in the manuscript may need correction or English editing. Moreover, infections with Gram-negative bacteria such as Klebsiella pneumonia and Campylobacter jejuni also stimulate the production of crossreactive antibodies recognizing the human leukocyte antigen (HLA)-B27 or gangliosides, respectively [62, 64]. {Page 6} heat shock protei (Hsp) A versus GroEs {Page 7} It has been found that patients suffering due to CHD were chronically exposed to H. pylori with {Page 11} Superficial gastritis was correlated with a higher production of anti-urease IgA, whereas elevated levels of anti-urease immunoglobulins dominated in the patients with atrophy of gastric epithelium[147]. {Page 12} In the studies carried out on a group of Polish children it was shown that levels of gastrin in



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the patients infected with H. pylori were significantly higher, whereas the levels of ghrelin and leptin were lower compared to the control[160]. {Page 15}



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## PEER-REVIEW REPORT

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

**Manuscript NO:** 32672

**Title:** Molecular mimicry in H. pylori infections

**Reviewer's code:** 02993121

**Reviewer's country:** Thailand

**Science editor:** Ze-Mao Gong

**Date sent for review:** 2017-01-21

**Date reviewed:** 2017-02-03

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
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		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

### COMMENTS TO AUTHORS

This review try to explain the possible pathogenesis of extragastric diseases and H. pylori infection. To date, only a few extragastric diseases eg. ITP, iron deficiency anemia have evidence based information suggested these associations. The other diseases such as pancreatic disease, cardiovascular disorders or neurological diseases are unlikely to be associated with this particular bacteria. The authors should explain new possible mechanisms of H. pylori infection and gastric diseases and new virulence factors of this bacteria rather than use some weak evidences to support association with extragastric diseases. Make tables for the possible correlations for easy understanding.



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## PEER-REVIEW REPORT

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

**Manuscript NO:** 32672

**Title:** Molecular mimicry in H. pylori infections

**Reviewer's code:** 02444986

**Reviewer's country:** Turkey

**Science editor:** Ze-Mao Gong

**Date sent for review:** 2017-01-21

**Date reviewed:** 2017-02-06

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> [ Y ] Accept
<input type="checkbox"/> [ Y ] Grade B: Very good	<input type="checkbox"/> [ Y ] Grade B: Minor language polishing	<input type="checkbox"/> [ ] The same title	<input type="checkbox"/> [ ] High priority for publication
<input type="checkbox"/> [ ] Grade C: Good	<input type="checkbox"/> [ ] Grade C: A great deal of language polishing	<input type="checkbox"/> [ ] Duplicate publication	<input type="checkbox"/> [ ] Rejection
<input type="checkbox"/> [ ] Grade D: Fair	<input type="checkbox"/> [ ] Grade D: Rejected	<input type="checkbox"/> [ Y ] No	<input type="checkbox"/> [ ] Minor revision
<input type="checkbox"/> [ ] Grade E: Poor		BPG Search:	<input type="checkbox"/> [ ] Major revision
		<input type="checkbox"/> [ ] The same title	
		<input type="checkbox"/> [ ] Duplicate publication	
		<input type="checkbox"/> [ ] Plagiarism	
		<input type="checkbox"/> [ Y ] No	

### COMMENTS TO AUTHORS

Authors excellantly summarized the literature on H.pylori infection and related autoimmune diseases. my comments: \* grammer should be revised for minor mistakes \* resolut?on of figure should be improved.