

ESPS Peer-review Report

Name of Journal: World Journal of Gastroenterology

ESPS Manuscript NO: 6006

Title: Helicobacter pylori neutrophil-activating protein: from molecular pathogenesis to clinical application

Reviewer code: 02535996

Science editor: Zhai, Huan-Huan

Date sent for review: 2013-09-30 14:24

Date reviewed: 2013-10-07 05:57

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	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"/> Existed	<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"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D (Fair)		BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)	<input type="checkbox"/> Grade D: rejected	<input type="checkbox"/> Existed	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

The manuscript entitles “Helicobacter pylori neutrophil-activating protein: from molecular pathogenesis to clinical application” by Hua-Wen Fu is a nicely written, clear review. There are a few small suggestions to make it stronger. 1. Page 4 - when describing the iron binding capacity, the word cavity might not be the appropriate word. This may need to be described in more detail. 2. Comma needed on page 5 line 3 before the word “but” 3. Generally, a little more attention could be given to the effect of Hp-NAP on neutrophils. For example, several articles are not referenced that describe meaningful information about Hp-NAP: A. FEMS Microbiol Lett. 2005 Aug 1;249(1):95-103. Helicobacter pylori induce neutrophil transendothelial migration: role of the bacterial HP-NAP. Brisslert M, Enarsson K, Lundin S, Karlsson A, Kusters JG, Svennerholm AM, Backert S, Quiding-J?rbrink M. This article describes the continuous influx of neutrophils in a transwell chamber system requires live Hp expressing NAP. This is an important study that should be included in the manuscript. B. Cell Microbiol. 2010 Jun;12(6):754-64. doi: 10.1111/j.1462-5822.2010.01431.x. Epub 2010 Jan 11. Helicobacter pylori-derived neutrophil-activating protein increases the lifespan of monocytes and neutrophils. Cappon A, Babolin C, Segat D, Cancian L, Amedei A, Calzetti F, Cassatella MA, D'Elis MM, de Bernard M.

ESPS Peer-review Report

Name of Journal: World Journal of Gastroenterology

ESPS Manuscript NO: 6006

Title: Helicobacter pylori neutrophil-activating protein: from molecular pathogenesis to clinical application

Reviewer code: 02527808

Science editor: Zhai, Huan-Huan

Date sent for review: 2013-09-30 14:24

Date reviewed: 2013-10-09 08:37

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	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"/> Existed	<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"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D (Fair)	<input type="checkbox"/> Grade D: rejected	<input type="checkbox"/> Existed	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)		<input type="checkbox"/> No records	<input type="checkbox"/> Major revision

COMMENTS TO AUTHORS

The article aimed to clarify the pathogenic role HP-NAP in H. pylori infection. the unique immune properties and biological function of HP-NAP which make it become a potential candidate in clinical applications, including vaccine development, clinical diagnosis, and drug development. The presentation is comprehensive& try to stress on the applied aspects needed by the clinicians but there are some comments : As regard key words : Please added ? Immune modulation; ? Th1-Th2; ? Immunotherapy Language editing: introduction : Line (14) neutrophil-activating protein, NAP,must be changed to neutrophil-activating protein (NAP) Page (6) : interleukin-4 (IL-4)-secreting T cells must be changed to interleukin-4 (IL-4) secreting T cells As regard the review article Role of HP-NAP in bacterial protection and survival:(page 4) I think you must clarify that HP-NAP does not possess a positively charged N-terminus but, unlike the other members of the family, is characterized by a positively charged protein surface which has been proposed to be responsible for binding and condensing DNA (Ceci et al.,2007). Role of HP-NAP in host inflammation (page 5) You don't discuss how the HP-NAP stimulate the monocyte to synthesize tissue factor (TF) and plasminogen activator inhibitor-2 (PAI-2)& the relation of this action to the development of chronic gastritis (Montemurro et al., 2001) In page page (6) before discussing the role of HP-NAP in innate immunity and gastric Th1-polarized response , a brief revision about the role of different types of T-helper cells in immunity against infection is required (D'Elios and Del Prete, 1998). In Page (7) : The last sentence (A recent study showed that TLR2 was involved in HP-NAP-stimulated) you must delete a recent study because the reference was(Del et al 2008) which is not recent now. Disease associations with HP-NAP (page 8) The finding that HP-NAP shares

significant homology with other Dps-like proteins, produced by bacteria associated with chronic inflammation, such as NapA of *Borrelia burgdorferi* must be discussed. References - You must update old references. - Many references were missed in your review such as 1- The immune modulating activity of the *Helicobacter pylori* HP-NAP: Friend or foe? de Bernard M & D'Elios MM 2010 *Toxicon*. Dec 15;56(7):1186-92. Although This review article is more or less similar to your review but it was not found in your reference. 2-Velin D& Michetti P2010 *Expert Rev Gastroenterol Hepatol*. 2010 Apr;4(2):157-66. 3-de Bernard M & D'Elios 2009 *MM Helicobacter*. Sep;14 Suppl 1:21-8 4- D'Elios et al 2007 *FEMS Immunol Med Microbiol*. Jul;50(2):157-64. 5- D'Elios et al 2007 *Clin Chim Acta*. May;381(1):32-8. 6- Montecucco C,& de Bernard M 2003 *Microbes Infect*. Jul;5(8):715-21. 7- Dundon et al 2002 *Int J Med Microbiol*. Feb;291(6-7):545-50. Also the manuscript is devoid from any associated figures or models illustrating the molecular pathogenetic activity of the HP-NAP.