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Wan Chai, Hong Kong, China

ESPS Peer-review Report

Name of Journal: World Journal of Gastroenterology

ESPS Manuscript NO: 5423

Title: Nickel trafficking system responsible for urease maturation in *Helicobacter pylori*

Reviewer code: 00183436

Science editor: Cui, Xue-Mei

Date sent for review: 2013-09-06 16:02

Date reviewed: 2013-09-13 00:22

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 checked="" type="checkbox"/> Grade B (Very good)	<input checked="" 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	BPG Search:	<input checked="" type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)		<input type="checkbox"/> Existed	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

Summary In this review article, the authors summarize recent data from the field concerning the role of nickel in maturation of urease. They cover nickel transport systems, urease accessory proteins, hydrogenase accessory proteins, the nickel-dependent transcriptional regulator NikR, and the histidine rich proteins. The review is well written and just minor suggestions for improvement are noted. Suggested improvements

1. The abstract should directly mention the word hydrogenase, as it is a nickel-dependent enzyme and some workers in the field will miss this review if they search for hydrogenase and nickel.
2. p4. Provide a reference for the sentence "The enzymatic hydrolysis of urea causes an abrupt..."
3. p 8. Change "proteisin" to "proteins"
4. A figure is sorely needed to summarize the nickel transport systems, nickel binding proteins, steps of urease maturation with nickel and the dimer/multimerization of the different proteins. A well thought out figure will go a long way to providing a model for the field and help to better understand and keep straight all the proteins in this review.
5. P9, near the bottom, change "forman" to "form an"
6. p10. Insert "in" between "involved" and "intracellular"
7. The article requires a solid summary/closing paragraph that highlights key points and integrates the the roles of Ni in urease and its importance in the pathogenesis of the organism.
8. Fig. 2 Legend. Change the triangle to a square, as the figure itself shows squares for the data points.



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ESPS Peer-review Report

Name of Journal: World Journal of Gastroenterology

ESPS Manuscript NO: 5423

Title: Nickel trafficking system responsible for urease maturation in *Helicobacter pylori*

Reviewer code: 00631974

Science editor: Cui, Xue-Mei

Date sent for review: 2013-09-06 16:02

Date reviewed: 2013-09-17 17:58

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 checked="" type="checkbox"/> Grade B (Very good)	<input checked="" 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	BPG Search:	<input checked="" type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)		<input type="checkbox"/> Existed	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

The review on “Nickel trafficking system responsible for urease maturation in *Helicobacter pylori*” is well written and informative. In this review Ge et al summarizes the role of several nickel trafficking proteins in urease maturation required for adaptation of *H. Pylori* within host stomach. This review seems to be important in this field. Minor comments: 1. In page 2 line 3, sentence “*H Pylori* has to uptake sufficient.....excessive nickel ions” is not very clear. Author needs to rewrite this sentence. 2. In page 3, sentence “Acute acid resistance depends on-----degraded to ammonia and carbonic acid”, a comma should be given after ‘carbamate’. 3. In page 4 sentence “Urease is an oligomeric-----thus far examined”. Here “thus far examined” should be “so far examined”. 4. In page 4 sentence “Under in vitro growth condition without additionally-----100% activated after addition of Ni2+” needs to be reformed, it is not clear. 5. In page 8 on line 9 ‘proteisn’ will be ‘proteins’. 6. In page 9 line 22 ‘forman’ will be ‘form an’.



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ESPS Peer-review Report

Name of Journal: World Journal of Gastroenterology

ESPS Manuscript NO: 5423

Title: Nickel trafficking system responsible for urease maturation in *Helicobacter pylori*

Reviewer code: 01554907

Science editor: Cui, Xue-Mei

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Date reviewed: 2013-09-27 17:48

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)	<input type="checkbox"/> [] Grade D: rejected	BPG Search:	<input type="checkbox"/> [] Minor revision
<input type="checkbox"/> [] Grade E (Poor)		<input type="checkbox"/> [] Existed	<input type="checkbox"/> [] Major revision
		<input type="checkbox"/> [] No records	

COMMENTS TO AUTHORS

The manuscript makes an extensive review on the role of nickel trafficking proteins involved in urease maturation. The work is useful for understanding on the adaptation of *H.pylori* to the acid environment of the stomach.