



PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 39208

Title: Host genetic factors affecting hepatitis B infection outcomes: Insights from GWAS

Reviewer's code: 03656572

Reviewer's country: China

Science editor: Xue-Jiao Wang

Date sent for review: 2018-04-10

Date reviewed: 2018-04-13

Review time: 3 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good		<input checked="" type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of language polishing	(General priority)	Peer-reviewer's expertise on the topic of the manuscript:
<input type="checkbox"/> Grade E: Do not publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Minor revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Major revision	<input type="checkbox"/> General
		<input type="checkbox"/> Rejection	<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

In this review, the author discussed genome-wide association studies (GWAS) for persistence of HBV infection, antibody response to hepatitis B vaccine, and HBV-related advanced liver diseases. The author provided an overview of the current evidence-based information on HBV persistence is associated with multiple genes with diverse roles in



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immune mechanisms. The risk variants for HBV-related advanced liver diseases are largely different, suggesting that different molecular mechanisms are involved in acute vs. chronic HBV infections. It was suggested that the findings of these GWAS pave the way for developing more effective preventive and therapeutic interventions by personalizing the management of HBV infection. This editorial review is described in detail, which, as valuable information, could help the readers that have better understand the first-hand knowledge of this topic to start novel studies.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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BPG Search:

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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 39208

Title: Host genetic factors affecting hepatitis B infection outcomes: Insights from GWAS

Reviewer's code: 00183339

Reviewer's country: Iran

Science editor: Xue-Jiao Wang

Date sent for review: 2018-04-10

Date reviewed: 2018-04-15

Review time: 4 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input checked="" type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

This paper reviews "Host genetic factors affecting hepatitis B infection outcomes" The manuscript is well presented and of interest and can contribute to increase the knowledge of this topic.



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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 39208

Title: Host genetic factors affecting hepatitis B infection outcomes: Insights from GWAS

Reviewer's code: 00032933

Reviewer's country: Taiwan

Science editor: Xue-Jiao Wang

Date sent for review: 2018-04-10

Date reviewed: 2018-04-18

Review time: 8 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

This is an extensive literature review article concerns about GWAS studies of chronic HBV infection. The article is well written and will be helpful for those researchers who are interesting in this field. They point out that SNPs in HAL-DP and -DQ regions were consistently reported to be associated with persistent HBV infection. On the other hand,



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there was no consistent agreement on genetic role that determined the outcome of persistent HBV infection. Comments: 1. Many researchers were unable to find a consistent gene that related to advance liver diseases. The authors may consider whether non-genetic roles are important in the outcome of chronic persistent infection. For examples: transmission route, maternal status and generation. 2. HBV is an important global infection. Only one GWAS study conducted in south Asia (Saudi Arabian) and none in African. A global perspective on HBV-related SNPs and evolution during human migration was reported. The authors may make a discussion on this issue.

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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 39208

Title: Host genetic factors affecting hepatitis B infection outcomes: Insights from GWAS

Reviewer's code: 01800523

Reviewer's country: Japan

Science editor: Xue-Jiao Wang

Date sent for review: 2018-04-10

Date reviewed: 2018-04-25

Review time: 14 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
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		<input type="checkbox"/> Rejection	<input checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

The manuscript is well written, and I have nothing to comment.

INITIAL REVIEW OF THE MANUSCRIPT

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