

## ESPS PEER-REVIEW REPORT

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

**ESPS manuscript NO:** 26015

**Title:** The role of inflammation and infection in the pathogenesis of human acute liver: clinical implications for monitoring and therapy

**Reviewer's code:** 03474698

**Reviewer's country:** United Kingdom

**Science editor:** Ya-Juan Ma

**Date sent for review:** 2016-03-28 11:13

**Date reviewed:** 2016-04-07 19:10

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	Google Search:	<input checked="" type="checkbox"/> Accept
<input checked="" 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 checked="" type="checkbox"/> Plagiarism	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input checked="" 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 checked="" type="checkbox"/> No	

## COMMENTS TO AUTHORS

This manuscript is a well written review of infection and immune dysfunction in human ALF. While the review is not exhaustive due to limitations of length, it is thorough and appropriately directs readers to further reading where appropriate. The only area I would recommend for revision is Table 1, which is rather selective and does not effectively summarise the wealth of studies on cellular immune dysfunction in ALF. This should be expanded to be more comprehensive or could legitimately be omitted due to this being an overview for a more general readership.

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

**ESPS manuscript NO:** 26015

**Title:** The role of inflammation and infection in the pathogenesis of human acute liver: clinical implications for monitoring and therapy

**Reviewer's code:** 00722050

**Reviewer's country:** Canada

**Science editor:** Ya-Juan Ma

**Date sent for review:** 2016-03-28 11:13

**Date reviewed:** 2016-04-13 12:57

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

## COMMENTS TO AUTHORS

The authors review extensively the topic of the Role of Inflammation and Infection in the Pathogenesis of Human Acute Liver Failure (ALF). The manuscript is well written and sections are quite well delineated and clear. However, there are a few aspects that may raise some suggestions. TLR-9 and neutrophilic involvement is poorly explained and needs to be expanded. A figure with drawings of the NLRP3 inflammasome cascade should be added. It is important to add more clarity in the inflammasome activation and at which level non-TLR-9 may be potential pitfalls in addressing the pathogenesis question of ALF. In addition, the authors should address the influence of calcium flux, mtROS, mitochondrial membrane potential dysregulation, autophagic dysfunction, and TXNIP with more clarity. The literature has some flaws, e.g. ref 10 has the wrong surname. Godhev K. Manakkat Vijay is the right name and is misspelled in the manuscript!

## ESPS PEER-REVIEW REPORT

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

**ESPS manuscript NO:** 26015

**Title:** The role of inflammation and infection in the pathogenesis of human acute liver: clinical implications for monitoring and therapy

**Reviewer's code:** 02461826

**Reviewer's country:** Austria

**Science editor:** Ya-Juan Ma

**Date sent for review:** 2016-03-28 11:13

**Date reviewed:** 2016-05-02 01:05

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input checked="" 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 checked="" type="checkbox"/> No	<input checked="" 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 checked="" type="checkbox"/> No	

## COMMENTS TO AUTHORS

The present review article summarizes the current knowledge on the role of inflammation and infection in the pathogenesis of ALF. The topic is up to date and important. The review itself is concise and well written. Comments: - Please explain in more detail the concept of the so called inflammasome. - The article would strongly benefit from a figure explaining the immunological processes including immunological mediators in ALF. - Few spelling errors