

## PEER-REVIEW REPORT

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

**Manuscript NO:** 40713

**Title:** Damage-associated molecular patterns in inflammatory bowel disease: From biomarkers to therapeutic targets

**Reviewer's code:** 00002314

**Reviewer's country:** Italy

**Science editor:** Ruo-Yu Ma

**Date sent for review:** 2018-07-27

**Date reviewed:** 2018-08-02

**Review time:** 6 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 checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input checked="" 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 checked="" type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<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 authors provide an interesting overview of damage-associated molecular patterns (DAMP) and of pattern recognition receptors (PRR). The review is timely and addresses an innovative field of active research. In general, this is a clear and easy to read review.

The main limitation is that upon reading the title and considering the clinical readership of the Journal, I would like to see more focus on the clinical aspects. 1) I would expect more specific focus on which biomarkers are actually (at least potentially) useful for each disease (CD vs UC) and which targets can realistically be exploited clinically in the next few years (experts' opinion, which would be an added value for this manuscript) 2) Considering item 1 above, in my opinion the core tips and the abstract are too generic in the present form. They should provide more insight into what major issues must be faced by future research in the field. 3) The authors consider IBD in general, but some more effort should be done to address these questions: a) are there differences in DAMPs in CD and UC? b) which of the described pathways are already being exploited by pharmacological research? (for instance purinoceptors are only briefly mentioned, whereas a long list of studies is available and should be critically addressed, at least briefly); 4) Data from animal models should be clearly separated from clinical data (tables in this case could be very helpful to summarise data). For each animal model, its face validity, construct validity and predictive validity should be at least briefly addressed. Minor points. - It is stated that the first two authors contributed equally to this work, but in the submission letter it is indicated that "Please note that the designation of co-first authors and co-corresponding authors is not permitted". Please check. - The English style can still be improved (especially some sentences can be shortened and be more focused)

## INITIAL REVIEW OF THE MANUSCRIPT

### *Google Search:*

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism



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[ Y ] No

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## PEER-REVIEW REPORT

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

**Manuscript NO:** 40713

**Title:** Damage-associated molecular patterns in inflammatory bowel disease: From biomarkers to therapeutic targets

**Reviewer's code:** 00004011

**Reviewer's country:** Greece

**Science editor:** Ruo-Yu Ma

**Date sent for review:** 2018-08-08

**Date reviewed:** 2018-08-08

**Review time:** 3 Hours

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 checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input checked="" 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 checked="" type="checkbox"/> Major revision	<input checked="" type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

### SPECIFIC COMMENTS TO AUTHORS

It is interesting manuscript but need to be more specific. The biomarkers with clinical utility should be clearly presented and separated according the disease phenotype CD or UC. The data should be clearly regarding the two IBD entities. The animal studies



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should be separated from clinical data

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- ☐ No

## PEER-REVIEW REPORT

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

**Manuscript NO:** 40713

**Title:** Damage-associated molecular patterns in inflammatory bowel disease: From biomarkers to therapeutic targets

**Reviewer's code:** 01557050

**Reviewer's country:** Japan

**Science editor:** Ruo-Yu Ma

**Date sent for review:** 2018-08-08

**Date reviewed:** 2018-08-14

**Review time:** 5 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 type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input checked="" 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 checked="" 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 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

Dr. Nanini and Dr. de Souza, et al. reviewed 'Damage-associated molecular patterns in inflammatory bowel disease: from biomarkers to therapeutic targets'. The article is well-presented. The reviewer has some comments. Comments 1. In page 6 line 9, the



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authors described 'damage-associated molecular patterns (DAMPs)', please use just 'DAMPs'. Because the authors already used 'Damage-associated molecular patterns (DAMPs)' in page 5 line 16. 2. In page 7 line 9, the authors used a term 'ATP', this abbreviation was listed for the first time. Please list it without an abbreviation. 3. In References, please correct and list Journal names following contribution rule in WJG.

#### **INITIAL REVIEW OF THE MANUSCRIPT**

##### ***Google Search:***

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##### ***BPG Search:***

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- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

## PEER-REVIEW REPORT

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

**Manuscript NO:** 40713

**Title:** Damage-associated molecular patterns in inflammatory bowel disease: From biomarkers to therapeutic targets

**Reviewer's code:** 00503587

**Reviewer's country:** New Zealand

**Science editor:** Ruo-Yu Ma

**Date sent for review:** 2018-08-08

**Date reviewed:** 2018-08-16

**Review time:** 7 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input checked="" 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 checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" 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 checked="" type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input checked="" type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

### SPECIFIC COMMENTS TO AUTHORS

This is a comprehensive review of DAMP biology and relevance to IBD Specific Comments 1. The Figures are mentioned in the text of the MS, but there are no legends to go with the Figures in proximity 2. The S100 family comprises many more proteins



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than the 5 listed. This should be corrected. 3. Interleukins should be abbreviated as IL and not as Il 4.

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## PEER-REVIEW REPORT

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

**Manuscript NO:** 40713

**Title:** Damage-associated molecular patterns in inflammatory bowel disease: From biomarkers to therapeutic targets

**Reviewer's code:** 00070280

**Reviewer's country:** Sri Lanka

**Science editor:** Ruo-Yu Ma

**Date sent for review:** 2018-08-08

**Date reviewed:** 2018-08-16

**Review time:** 7 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 checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
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<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
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		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

### SPECIFIC COMMENTS TO AUTHORS

This is a nice review on an interesting topic. The authors should mention that DAMPs are also known as danger associated molecular patterns as well.



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