

## PEER-REVIEW REPORT

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

**Manuscript NO:** 37488

**Title:** Exploration of mitigating effect of colon-specific bioreversible codrugs of mycophenolic acid and aminosugars in experimental colitis model in Wistar rats

**Reviewer's code:** 02440884

**Reviewer's country:** Germany

**Science editor:** Ze-Mao Gong

**Date sent for review:** 2017-12-12

**Date reviewed:** 2017-12-12

**Review time:** 13 Hours

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	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"/> 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

In the study mycophenolic acid (MPA) and the prodrug mycophenolate mofetil (MMF) were investigated concerning its therapeutic and toxic effects. The prodrug with D-glucosamine (MGLS) was found with a 68 percent release. A decrease of the activity score was found. The topic is highly specialized. Comments 1. Is there any data about TNF-alpha or IL-1beta levels available? 2. The TNBS model is well established. Do the authors have any data about MGLS in the transfer model or others?

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**Reviewer's code:** 02446483

**Reviewer's country:** Canada

**Science editor:** Ze-Mao Gong

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**Review time:** 1 Day

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	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 checked="" type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input checked="" 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
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<input type="checkbox"/> Grade E: Poor		<input checked="" type="checkbox"/> No	<input type="checkbox"/> Major revision
		BPG Search:	
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		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

## COMMENTS TO AUTHORS

The authors used mycophenolic acid (MPA); an immunosuppressant and its morpholinoethyl ester prodrug being mycophenolate mofetil are under investigation for the treatment of IBD. The authors focus on synthesizing colon- targeted prodrugs wherein MPA was bio-reversibly linked with N-sugars to mask carboxyl group of MPA responsible for GI side effects. The authors have been successful in showing using data a significant mitigating outcome on TNBS- induced colitis in Wistar rats compared to MPA. The manuscript is very dense and rich of several methods, but the quality of the microphotographs is poor and needs to be improved.

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**Reviewer's code:** 03658334

**Reviewer's country:** Croatia

**Science editor:** Ze-Mao Gong

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CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	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 checked="" type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
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		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

## COMMENTS TO AUTHORS

The results is very interesting and the paper is overall well written. I have several comments. In the Introduction the available IBD therapy is not explained in detail. We have many other therapeutic options except aminosalicylates. Furthermore, it is not clear why the new codrugs are more effective than mycophenolic acid.