

## PEER-REVIEW REPORT

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

**Manuscript NO:** 65896

**Title:** Induced pluripotent stem cells as an innovative model to study drug induced pancreatitis

**Reviewer's code:** 05452641

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

**Reviewer's Country/Territory:** United States

**Author's Country/Territory:** Italy

**Manuscript submission date:** 2021-03-17

**Reviewer chosen by:** Man Liu

**Reviewer accepted review:** 2021-03-19 18:49

**Reviewer performed review:** 2021-03-21 13:07

**Review time:** 1 Day and 18 Hours

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
<b>Language quality</b>	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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#### **SPECIFIC COMMENTS TO AUTHORS**

- Table 1 is a relevant addition. - Recommend adding figures to further illustrate sequence of differentiating HES into pancreatic exocrine cells. This reviewer found it useful to review figures from Ref #16 for a relevant representation of the process. -

Consider delving deeper into the discussion with regards to the terminal differentiation of pancreatic exocrine cells. o Some of the cited references comment on the question of endocrine vs exocrine activity. o An important (general) question in the process of terminal differentiation is if the amylase markers are sufficient to reflect terminal differentiation. The discussion mentions some improvement in the differentiation protocol to distinguish between acinar and ductal cell types. Some expansion on the implications thereof in ensuring terminal differentiation would be as representative/close as possible to in vivo models may help complete the argument.

## PEER-REVIEW REPORT

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

**Manuscript NO:** 65896

**Title:** Induced pluripotent stem cells as an innovative model to study drug induced pancreatitis

**Reviewer's code:** 04737676

**Position:** Peer Reviewer

**Academic degree:** MBBS

**Professional title:** Assistant Professor

**Reviewer's Country/Territory:** India

**Author's Country/Territory:** Italy

**Manuscript submission date:** 2021-03-17

**Reviewer chosen by:** Man Liu

**Reviewer accepted review:** 2021-03-19 08:54

**Reviewer performed review:** 2021-03-21 14:55

**Review time:** 2 Days and 6 Hours

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input checked="" type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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#### **SPECIFIC COMMENTS TO AUTHORS**

This editorial on Induced pluripotent stem cells as an innovative model to study drug induced pancreatitis the authors have highlighted the importance of induced pluripotent stem cells (iPSCs) in investigating the cellular and molecular mechanisms underlying the development of this thiopurine induced pancreatitis (TIP). By this new idea researchers will be able to understand the mechanism behind TIP. The quality and importance of this editorial is appropriate. The conclusions are appropriately summarised the editorial. The key problem in this field is availability of pancreatic tissue for research, which will possibly be solved by using iPSC. There are some syntax and grammatical errors, needs to be corrected, like sentences should not be started with abbreviations.

## PEER-REVIEW REPORT

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

**Manuscript NO:** 65896

**Title:** Induced pluripotent stem cells as an innovative model to study drug induced pancreatitis

**Reviewer's code:** 03764458

**Position:** Editorial Board

**Academic degree:** FACG, FACP, MBBS, MD

**Professional title:** Assistant Professor

**Reviewer's Country/Territory:** United States

**Author's Country/Territory:** Italy

**Manuscript submission date:** 2021-03-17

**Reviewer chosen by:** Man Liu

**Reviewer accepted review:** 2021-03-19 09:35

**Reviewer performed review:** 2021-03-28 16:58

**Review time:** 9 Days and 7 Hours

<b>Scientific quality</b>	<input checked="" type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input checked="" type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

#### **SPECIFIC COMMENTS TO AUTHORS**

Drug induced pancreatitis is scarcely reported in literature for several reasons. TIP has been a major hurdle in managing patients with IBD. I appreciate authors' attempt to study this under-reported and clinically relevant entity. 1. The study hypothesis is a novel approach to this issue. Authors collected and summarized all the information available. Their experience in this field has been clearly reflected in the manuscript. 2. Using patient specific iPSCs may be future of studying ADRs especially drug induced pancreatitis as current literature is solely dependent on case reports 3. Major limitation is the very limited number of study objects. However as this concept is evolving and complexity of methods, its reasonable to accept the findings 4. I would appreciate and curious to see if authors can mention the cost-effectiveness of this method.