



**PEER-REVIEW REPORT**

**Name of journal:** *World Journal of Clinical Oncology*

**Manuscript NO:** 67207

**Title:** Liver regeneration biology: Implications for liver tumour therapies

**Provenance and peer review:** Invited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 05455405

**Position:** Peer Reviewer

**Academic degree:** MD, PhD

**Professional title:** Assistant Professor, Surgeon, Surgical Oncologist

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

**Author's Country/Territory:** United Kingdom

**Manuscript submission date:** 2021-04-27

**Reviewer chosen by:** Jin-Lei Wang

**Reviewer accepted review:** 2021-04-28 21:57

**Reviewer performed review:** 2021-05-09 15:12

**Review time:** 10 Days and 17 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 Grade E: Do not publish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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



**Baishideng  
Publishing  
Group**

7041 Koll Center Parkway, Suite  
160, Pleasanton, CA 94566, USA  
**Telephone:** +1-925-399-1568  
**E-mail:** bpgoffice@wjgnet.com  
**https://**www.wjgnet.com

statements

Conflicts-of-Interest: [ ] Yes [Y] No

## SPECIFIC COMMENTS TO AUTHORS

Dear Authors, The performed literature review is relevant and necessary today. The increase in the incidence of liver tumors, the expansion of indications for large liver resections, and the approbation of new chemotherapy regimens require an absolute understanding of the liver as an organ at the molecular level. This review provides an overview of liver regeneration biology, and the implications of our current understanding for the treatment of liver tumors. Biomolecular processes of liver regeneration, occurring both in the hepatocyte itself, as well as outside it, but indirectly affecting it, have been studied for many decades. The authors made an attempt to characterize the processes and signaling pathways that regulate organ regeneration after various influences at the autocrine, paracrine, and endocrine levels. Title, Abstract, Key words and Background does reflect the main content of the manuscript. The manuscript is divided into sections arranged logically, which greatly helps to understand the content of the work. The authors initially make an clarifying indication: 'It is emphasized that the presentation of the subject in this way, though designed to orientate the reader, is somewhat artificial in the context of a biological process characterized by multiple synchronous and overlapping events' there is no single leading pathway for liver regeneration. Diagrams, figures and tables are informative and directly help to understand the content of the manuscript. For the writing of the article, the most significant works in this direction were selected, unfortunately (this is a problem of the present time, to which the authors also point out), the main sources contain the results of experimental work with animals, which makes it difficult to actively introduce these data for the human population. The work creates prerequisites, and the hypotheses put forward require further study. The manuscript does not require significant corrections.



**Baishideng  
Publishing  
Group**

7041 Koll Center Parkway, Suite  
160, Pleasanton, CA 94566, USA

**Telephone:** +1-925-399-1568

**E-mail:** [bpgoffice@wjgnet.com](mailto:bpgoffice@wjgnet.com)

**https://**[www.wjgnet.com](http://www.wjgnet.com)

In conclusion, it is possible to recommend a slight correction of the conclusion: how the understanding of the biology of liver regeneration will be "Implications for Liver Tumour Therapies".